~~Cathy Taylor~~
Karen Canody
cc: Harry Miller
Jean Tribull

ENV 55
Bremo
Water

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

VALLEY REGIONAL OFFICE
4411 Early Road, P.O. Box 3000, Harrisonburg, Virginia 22801
(540) 574-7800 Fax (540) 574-7878
www.deq.virginia.gov

L. Preston Bryant, Jr.
Secretary of Natural Resources

David K. Paylor
Director

Amy Thatcher Owens
Regional Director

December 27, 2007

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Pamela F. Faggert, Vice President and Chief Environmental Officer
Dominion Resources Services, Inc.
5000 Dominion Boulevard
Glen Allen, VA 23060

Re: Modification, VPDES Permit No. VA0004138, Dominion – Bremo Power Station

Dear Ms. Faggert:

The enclosed permit has been approved. This permit action involved modifying the permit to reflect a change in the VPDES Regulation. In accordance with the permit, you are required to submit Discharge Monitoring Reports (DMRs) by the tenth of each month to:

Virginia Department of Environmental Quality
Valley Regional Office
P.O. Box 3000
Harrisonburg, Virginia 22801

The reporting form included with the permit reissued effective August 7, 2007 is unchanged and remains effective. There is no reason to update the e-DMR that you use to submit the effluent data electronically.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under §§ 62.1 - 44.16, 62.1 - 44.17, and 62.1 - 44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in §1.23(b) of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

If you have questions about this permit, please do not hesitate to contact us.

Sincerely,

Larry M. Simmons, P.E.
Deputy Regional Director

Enclosure: VPDES Permit No. VA0004138
cc: EPA, Region III – 3WP12
DEQ-OWPP
L. Ferguson-Davie (VRO)
Permit Processing File

MEMORANDUM
DEPARTMENT OF ENVIRONMENTAL QUALITY
VALLEY REGIONAL OFFICE

4411 Early Road - P.O. Box 3000 Harrisonburg, VA 22801

SUBJECT: Modification of VPDES Permit No. VA0004138, Dominion – Bremo Power Station

TO: Deputy Regional Director

FROM: Regional Water Permits Manager BK

DATE: December 19, 2007

COPIES: VRO Permit Processing File

Other Agency Comments: No other agency comments were received.

Public Notice Comments: No public comments were received.

Staff Comments: The modification reflects changes to the VPDES Regulation consistent with recent court rulings affecting 40 CFR Part 122.21(r) (2004) and new requirements regarding TMDLs. The permit cover page was also reformatted in accordance with current Agency guidance.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. VA0004138

Effective Date: August 7, 2005
Modification Date: December 27, 2007
Expiration Date: July 31, 2010

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I - Effluent Limitations and Monitoring Requirements, and Part II – Conditions Applicable To All VPDES Permits, as set forth herein.

Owner:	**Virginia Electric and Power Company**
Facility Name:	**Dominion - Bremo Power Station**
City:	Bremo Bluff
County:	Fluvanna
Facility Location:	1038 Bremo Road

The owner is authorized to discharge to the following receiving stream:

Stream:	**James River**
River Basin:	James River (Middle)
River Subbasin:	N/A
Section:	10
Class:	III
Special Standards:	None

Regional Director, Valley Region

12/27/07

Date

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number 001 (Once Through Condenser Cooling Water).

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
pH (standard units)	NA	NA	6.0	9.0	1/Month	Grab
Total Residual Chlorine (mg/L)[a,b]	NA	NA	NA	0.20	1/Day	Grab
Heat Rejected ($\times 10^9$ BTU/Hr.)[c]	NA	NA	NA	1.62	1/Month	Calculated

NL – No Limitation, monitoring required *NA – Not Applicable*

a. See Part I.B. for additional monitoring instructions.

b. When chlorine is not applied the daily maximum shall be reported as "NR" meaning not required. See Part I.E.6. for additional monitoring instructions.

c. See Part I.E.8. for additional monitoring instructions.

d. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number 002 (West Ash Pond).

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	2/Month	Estimate
pH (standard units)	NA	NA	6.0	9.0	2/Month	Grab
Total Suspended Solids (mg/L)[a]	30.0	NA	NA	100.0	2/Month	Grab
Oil & Grease (mg/L)[a]	15.0	NA	NA	20.0	1/3 Months	Grab

NL = No Limitation, monitoring required *NA = Not Applicable*

a. See Part I.B. for additional monitoring instructions.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

3. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number 004 (North Ash Disposal Facility).

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/3 Months	Estimate
pH (standard units)	NA	NA	6.0	9.0	1/3 Months	Grab
Total Suspended Solids (mg/L)[a]	30.0	NA	NA	100.0	1/3 Months	Grab
Oil & Grease (mg/L)[a]	15.0	NA	NA	20.0	1/3 Months	Grab

NL = No Limitation, monitoring required *NA = Not Applicable*

a. See Part I.B. for additional monitoring instructions.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfalls number 101 (Intake Screen Backwash), 003 (Abandoned East Ash Pond) and 006 (Floodwall Discharge).

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Outfall 101 shall contain only river water from the screen backwash.[a]						
Outfalls 003 and 006 shall contain only storm water not associated with a regulated industrial activity where monitoring would be required[b,c]						
There shall be no discharge of process wastewater from these outfalls. No monitoring of these outfalls is required.						

a. See Part I.E 4. for additional requirements.

b. See Part I F. for additional requirements relating to storm water management.

c. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

5. **During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number 202 (Metal Cleaning Waste Treatment Basin).**

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/6 Months	Estimate
Total Suspended Solids (mg/L)[a]	30.0	NA	NA	100.0	1/6 Months	Grab
Oil & Grease (mg/L)[a]	15.0	NA	NA	20.0	1/6 Months	Grab
Total Iron[a]	1.0 mg/L 3.8 kg/d	NA	NA	1.0 mg/L 6.1 kg/d	1/6 Months	Grab
Total Copper[a]	1.0 mg/L 3.8 kg/d	NA	NA	1.0 mg/L 6.1 kg/d	1/6 Months	Grab

NL = No Limitation, monitoring required *NA = Not Applicable*

a. See Part I.B. for additional monitoring instructions.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

6. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number 203 (Sewage Treatment Plant).

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)[a]	NL	NA	NA	NL	1/Month	Estimate
Total Residual Chlorine (mg/L)[b]	NA	NA	1.0	NA	1/Month	Grab

NL = No Limitation, monitoring required *NA = Not Applicable*

a. The design flow of this treatment facility is 0.0432 MGD. See Part I.E.1. for additional requirements related to facility flows.

b. See Part I.B for additional monitoring instructions.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

7. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number 204 (internal outfall to outfall 002 containing storm water runoff from the coal pile).

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Total Suspended Solids (mg/L)[a]	NA	NA	NA	50[b]	1/year	Grab

NL = No Limitation, monitoring required *NA = Not Applicable*

a. See Part I.B. for additional monitoring instructions.

b. Any untreated overflow from facilities designed, constructed and operated to treat the volume of material storage pile runoff that is associated with a 10 year, 24-hour rainfall event shall not be subject to the 50 mg/L limitation for total suspended solids.

B. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - ADDITIONAL INSTRUCTIONS

1. Quantification Levels (QLs) shall be less than or equal to the following concentrations:

Effluent Characteristic	Quantification Level
Suspended Solids	1.0 mg/L
Total Residual Chlorine	0.10 mg/L
Oil & Grease	5.0 mg/L
Total Copper	1.0 mg/L
Total Iron	1.0 mg/L

2. Compliance Reporting Under Part I.A.

a. **Monthly Average** -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.B.1. above shall be determined as follows: All data below the test method quantification level (QL) shall be treated as zeros. All data equal to or above the method QL shall be treated as reported. Arithmetic concentration and/or loading averages (as applicable) shall be calculated using all reported data for the month, including the defined zeros. These averages shall be reported on the Discharge Monitoring Report (DMR). If all data are less than the method QL, then "<QL" shall be reported on the DMR for the concentration and/or loading values. Otherwise the average values shall be reported as calculated.

b. **Daily Maximum** -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in Part I.B.1. shall be determined as follows: All data below the QL listed in 1. Above shall be treated as zero. All data equal to or above the QL shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are less than the method QL, then "<QL" shall be reported on the DMR for the concentration and/or loading values.

c. Any single datum required shall be reported as "<QL" if it is less than the test method QL. Otherwise, the numerical value shall be reported.

d. Monitoring results reported on the Discharge Monitoring Report (DMR) shall be reported to the accuracy of the test, which must be capable of at least the same number of significant digits as the permit limit for the given parameter. Rounding the results to the number of significant digits in the permit, where the test method is sensitive enough to report more, is not acceptable. If there is not a method allowed by the permit that is accurate enough to measure two significant digits below the value of 1.0, it shall be the permittee's responsibility to provide documentation for DEQ approval demonstrating that only one significant figure can accurately be reported.

C. GROUND WATER MONITORING PLAN – The permittee shall continue the current ground water monitoring program which was initiated in conjunction with the construction of the North Ash Pond. The permittee shall continue to monitor both the upgradient and downgradient wells for Selenium, Iron, Barium, Magnesium, Manganese, Sulfate and Total Dissolved Solids as previously specified by the approved ground water monitoring program. The monitoring shall be conducted at a frequency of once per permit term. The results of this ground water monitoring program shall be submitted with the Discharge Monitoring Report for the last month of the quarter in which the samples were collected.

D. TOXICS MANAGEMENT PROGRAM (TMP) REQUIREMENTS

1. Biological Monitoring:

a. In accordance with the schedule in 2. below, the permittee shall conduct annual chronic toxicity tests using grab samples of final effluent collected from outfall 002 and acute toxicity tests using grab samples of final effluent collected from outfall 004.

The acute test shall be a 48-Hour Static Acute test using *Ceriodaphnia dubia*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, for calculation of a valid LC_{50}. Express the results as Acute Toxicity Units (TU_a) by dividing $100/LC_{50}$.

The chronic test shall be a Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, in order to determine the No Observed Effect Concentration (NOEC) for survival and reproduction or growth. **Results which cannot be determined (i.e. a "less than" or "zero" NOEC value) are not acceptable, and a retest requiring further dilution must be started within 30 days of the original sample.** Such "less than" or "zero" results must be submitted and will be regarded as evidence of effluent toxicity. Express the results as Chronic Toxicity Units (TU_c) by dividing 100/NOEC. Report the LC_{50} for each chronic test at the 48-hour point, and the IC_{25}, if calculable, with the NOECs in the required test report.

The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

b. The test dilutions used shall be those that are able to determine compliance with the following endpoints:

(1) Acute LC_{50} of 100 % equivalent to a TU_a of 1.0

(2) Chronic NOEC of 30% equivalent to a TU_c of 3.33

c. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of 1.a. may be discontinued.

2. Reporting Schedule:

The permittee shall supply 2 copies of the test reports for the toxicity tests specified in this TMP to DEQ-VRO in accordance with the following schedule:

Monitoring Period	Testing Periods	Submittal Dates
1st Annual	August-September 2005	By 11/10/2005
Annually thereafter	In July-September of subsequent years	By November 10th

E. OTHER REQUIREMENTS AND SPECIAL CONDITIONS

1. **95% Capacity Reopener** -- A **written notice** and a **plan of action** for ensuring continued compliance with the terms of this permit shall be submitted to:

Department of Environmental Quality
Valley Regional Office
P.O. Box 3000
Harrisonburg, Virginia 22801

when the **monthly average flow influent** to the wastewater treatment facilities **reaches 95 percent of the design capacity** authorized in this permit for **each month of any three consecutive month period.** The **written notice** shall be submitted **within 30 days** and the **plan of action** shall be received at the Valley Regional Office **no later than 90 days** from the third consecutive month for which the flow reached 95 percent of the design capacity. The plan shall include the necessary steps and a prompt schedule of implementation for controlling any current or reasonably anticipated problem resulting from high influent flows. Failure to submit an adequate plan in a timely manner shall be deemed a violation of this permit.

2. **Materials Handling/Storage** -- Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

3. **Operations and Maintenance (O&M) Manual Requirement** -- The permittee shall maintain a current and approved O&M Manual for the treatment works. This manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items:

   a. Treatment works design, treatment works operation, routine preventative maintenance of units within the treatment system, critical spare parts inventory and record keeping;

   b. Techniques to be employed in the collection, preservation and analysis of effluent samples;

   c. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants characterized in Part I.E.2 that will prevent these materials from reaching state waters; and

   d. A plan for the management and disposal of waste solids and a Sludge Management Plan.

   The permittee shall operate the treatment works in accordance with the approved O&M Manual. Any changes in the practices and procedures followed by the permittee shall be documented and submitted for staff approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit.

4. Debris collected on the intake trash racks shall not be returned to the waterway.

5. There shall be no discharge of polychlorinated biphenyl transformer fluids, such as those used for transformer fluids, in amounts equal to or greater than detected by EPA Test Methods specified in the Federal Register 40 CFR 136, Guidelines for Establishing Test Procedures for the Analysis for Pollutanta.

6. Neither free nor total residual chlorine may be discharged via outfall 001 from any single generating unit for mare than two hours per day unless the permittee demonstrates to the Department of Environmental Quality that discharge for more than two hours is required for macroinvertebrate control. Simultaneous multi-unit chlorination is permitted.

   Should the permittee find that the discharge exceeds the required permit limit, the permittee must implement appropriate measures to bring the discharge into compliance within one hour from the time the permittee collected the first sample. If, after the one-hour period, the permittee finds the discharge exceeds the permit limit, the permittee shall report the noncompliance status to the Department of Environmental Quality.

The appropriate measures shall include, but not be limited to, the adjustment of the dosage of the chlorine additive. If the permittee determines that the analytical instrumentation has failed, and a different analytical method is required, the permittee must notify the Department of Environmental Quality of the change in instrumentation.

7. The permittee shall comply with the Water Quality Standards for temperature outside the approved thermal mixing zone. The approved mixing zone is defined as 40% of the width of the James River, as measured from the north bank extending from the John H. Cooke Memorial Bridge downstream to Spicer's Island, approximately 5 1/2 miles downstream of the cooling water discharge (Outfall 001).

8. Monitoring of the thermal mixing zone shall be conducted in accordance with the previously approved monitoring plan and shall take place once per year during the month of July. The monitoring shall be conducted as near to full plant operating conditions as reasonably possible and the monitoring results shall be presented as a temperature plot with three degree centigrade isotherms. The results of the thermal mixing zone monitoring shall be submitted on or before October 31 of each year.

9. **CTC / CTO Requirement** -- The permittee shall, in accordance with the DEQ Sewage Collection and Treatment Regulation (9 VAC 25-790), obtain a Certificate to Construct (CTC) and a Certificate to Operate (CTO) prior to constructing and operating the wastewater treatment works. Noncompliance with the CTC or CTO shall be deemed a violation of the permit.

10. **Sludge Reopener** -- This permit may be modified or, alternatively, revoked and reissued if any applicable standard for sewage sludge use or disposal promulgated under Section 405(d) of the Clean Water Act is more stringent than any requirements for sludge use or disposal in this permit, or controls a pollutant or practice not limited in this permit.

11. **SMP Requirement** -- The permittee shall conduct all sewage sludge use or disposal activities in accordance with the Sludge Management Plan (SMP) approved with the issuance of this permit. Any proposed changes in the sewage sludge use or disposal practices or procedures followed by the permittee shall be documented and submitted for DEQ approval 90 days prior to the effective date of the changes. Upon approval, the SMP becomes an enforceable part of the permit. This permit may be modified or, alternatively, revoked and reissued to incorporate limitations/conditions necessitated by substantive changes in sewage sludge use or disposal practices.

12. **Water Quality Criteria Monitoring** -- The permittee shall monitor the effluent at outfall 002 for the substances noted in Attachment A of this permit according to the indicated analysis number, quantification level, sample type and frequency. Monitoring shall be initiated after the start of the third year from the permit's effective date. Using Attachment A as the reporting form, the data shall be submitted with the next permit reissuance application which is due at least 180 days prior to the expiration date of this permit. Monitoring and analyses shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved method. Methods other than those specified in Attachment

A may be used with prior notification to and approval from DEQ. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

13. **Notification Levels** -- The permittee shall notify DEQ-Valley Regional Office as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(1) 100 µg/L;

(2) 200 µg/L for acrolein and acrylonitrile; 500 µg/L for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and 1 mg/L for antimony;

(3) Five times the maximum concentration value reported for that pollutant in the permit application; or

(4) The level established by the Board.

b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(1) 500 µg/L;

(2) 1 mg/L for antimony;

(3) Ten times the maximum concentration value reported for that pollutant in the permit application; or

(4) The level established by the Board.

14. **Oil Storage Ground Water Monitoring Reopener** -- As this facility currently manages ground water in accordance with 9 VAC 25-90-10 et seq., Oil Discharge Contingency Plans and Administration Fees for Approval, this permit does not presently impose ground water monitoring requirements. However, this permit may be modified or, alternatively, revoked and reissued to incorporate ground water monitoring not required by the ODCP regulation.

15. **Cooling Water Intake Structure** -- As required by §316(b) of the Clean Water Act, the location, design, construction and capacity of the cooling water intake structures for the permitted facility shall reflect the best technology available (BTA) for minimizing adverse environmental impact. Within one year of the effective (or modification) date of this permit the permittee shall submit biological data collected consistent with that described in the February, 2005 Proposal for Information Collection. This permit may be reopened to address compliance with Clean Water Act §316(b) through requirements including but not limited to those specified in EPA regulations in 40 CFR Part 125 Subpart J when finalized.

16. **Reopener** -- This permit may be modified or, alternatively, revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

F. STORM WATER MANAGEMENT

1. General Storm Water Special Conditions

a. Sample Type
For all storm water monitoring required in Part I.A or other applicable sections of this permit, a minimum of one grab sample shall be taken. Unless otherwise specified, all such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken during the first hour of the discharge, and the permittee shall submit with the monitoring report a description of why a grab sample during the first 30 minutes was impracticable. If storm water discharges associated with industrial activity commingle with process or non-process water, then where practicable permittees must attempt to sample the storm water discharge before it mixes with the nonstorm water discharge.

b. Recording of Results
For each measurement or sample taken pursuant to the storm event monitoring requirements of this permit, the permittee shall record and report with the Discharge Monitoring Reports (DMRs) the following information:
(1) The date and duration (in hours) of the storm event(s) sampled;
(2) The rainfall measurements or estimates (in inches) of the storm event which generated the sampled discharge; and
(3) The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event.

In addition, the permittee shall maintain a monthly log documenting the amount of rainfall received at this facility on a daily basis. A summarization of this information shall also be submitted with the DMRs.

c. Sampling Waiver
When a permittee is unable to collect storm water samples required in Part I.A or other applicable sections of this permit within a specified sampling period due to adverse climatic conditions, the permittee shall collect a substitute sample from a separate qualifying event in the next period and submit these data along with the data for the routine sample in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

d. Representative Discharges
When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes substantially identical effluents are discharged, the permittee may test the effluent of one of such outfalls and report that the quantitative data also apply to the substantially identical outfall(s) provided that: (1) the representative outfall determination has been approved by DEQ prior to data submittal; and, (2) the permittee includes in the storm water pollution prevention plan a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents.

c. Quarterly Visual Examination of Storm Water Quality
The permittee shall perform and document a visual examination of a storm water discharge associated with industrial activity from each outfall, except discharges exempted below. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December.

(1) Examinations shall be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed 1 hour) of when the runoff or snowmelt begins discharging. The examination shall document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well lit area. No analytical tests are required to be performed on the samples. All such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previous measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when

sampling is being conducted. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term.

(2) Visual examination reports must be maintained onsite with the pollution prevention plan. The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.

(3) If the facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may collect a sample of effluent of one of such outfalls and report that the examination data also applies to the substantially identical outfall(s) provided that the permittee includes in the storm water pollution prevention plan a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)) shall be provided in the plan.

(4) When the permittee is unable to conduct the visual examination due to adverse climatic conditions, the permittee must document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

f. Allowable Nonstorm Water Discharges

(1) The following nonstorm water discharges are authorized by this permit provided the nonstorm water component of the discharge is in compliance with Part I.F.1.f.(2), below.

(a) Discharges from fire fighting activities;
(b) Fire hydrant flushings;
(c) Potable water including water line flushings;
(d) Uncontaminated air conditioning or compressor condensate;
(e) Irrigation drainage;
(f) Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with manufacturer's instructions;
(g) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
(h) Routine external building wash down which does not use detergents;

(i) Uncontaminated ground water or spring water;
(j) Foundation or footing drains where flows are not contaminated with process materials such as solvents;
(k) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains).

(2) Except for flows from fire fighting activities, the Storm Water Pollution Prevention Plan must include:
(a) Identification of each allowable non-storm water source;
(b) The location where it is likely to be discharged; and
(c) Descriptions of appropriate BMPs for each source.

(3) If mist blown from cooling towers is included as one of the allowable non-storm water discharges, the facility must specifically evaluate the potential for the discharges to be contaminated by chemicals used in the cooling tower. The permittee must determine that the levels of such chemicals in the discharges will not cause or contribute to a violation of an applicable water quality standard after implementation of the BMPs selected to control such discharges.

g. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities
The discharge of hazardous substances or oil in the storm water discharge(s) from this facility shall be prevented or minimized in accordance with the applicable storm water pollution prevention plan for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an onsite spill. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110 (1998), 40 CFR 117 (1998) or 40 CFR 302 (1998) occurs during a 24 hour period, the permittee is required to notify the Department in accordance with the requirements of Part II.G. as soon as he or she has knowledge of the discharge. In addition, the storm water pollution prevention plan required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110 (1998), 40 CFR 117 (1998) and 40 CFR 302 (1998) or § 62.1-44.34:19 of the Code of Virginia.

2. Storm Water Pollution Prevention Plan

A storm water pollution prevention plan was required to be developed and implemented for the facility by the previous permit. The existing storm water pollution prevention plan shall be reviewed and modified, as appropriate, to conform to the requirements of this section.

The plan shall identify potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the plan shall describe and ensure the implementation of practices that are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit.

Permittees must implement the provisions of the storm water pollution prevention plan as a condition of this permit.

The storm water pollution prevention plan requirements of this permit may be fulfilled by incorporating by reference other plans or documents such as an erosion and sediment control plan, a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act or best management practices (BMP) programs otherwise required for the facility provided that the incorporated plan meets or exceeds the plan requirements of Part I.F.2.d. If an erosion and sediment control plan is being incorporated by reference, it shall have been approved by the locality in which the activity is to occur or by another appropriate plan approving authority authorized under the Virginia Erosion and Sediment Control Regulation 4 VAC 50-30-10 et seq. All plans incorporated by reference into the storm water pollution prevention plan become enforceable under this permit.

a. Deadlines for Plan Preparation and Compliance
   (1) The facility shall prepare and implement the plan as expeditiously as practicable, but not later than 270 days from the effective date of the permit. Verification of compliance with the above deadline shall be provided, in writing, within 10 days of either the deadline or the actual completion date, if completed earlier.
   (2) Measures That Require Construction. In cases where construction is necessary to implement measures required by the plan, the plan shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of this permit. Where a construction compliance schedule is included in the plan, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.

b. Signature and Plan Review
   (1) Signature/Location. The plan shall be signed in accordance with Part II.K., and be retained onsite at the facility that generates the storm water discharge in accordance with Part II.B.2.
   (2) Availability. The permittee shall make the storm water pollution prevention plan, annual site compliance inspection report, or other information available to the Department upon request..
   (3) Required Modifications. The Director, or authorized representative, may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this permit. Such notification shall identify those provisions of the permit that are not being met by the plan, and identify which provisions of the plan require modifications in order to meet the minimum requirements of this permit. Within 60 days of such notification from the Director, (or as otherwise provided by the Director), or authorized representative, the permittee shall make the required changes to the plan and shall submit to the Director a written certification that the requested changes have been made.

c. Keeping Plans Current
The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance, that has a significant effect on the potential for the discharge of pollutants to surface waters or if the storm water pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under Part I.F.2.d of this permit, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. New owners shall review the existing plan and make appropriate changes. Amendments to the plan may be reviewed by the Department in the same manner as Part I.F.2.b.

d. Contents of the Plan
The contents of the pollution prevention plan shall comply with the requirements listed below and those in Part I.F.3. The plan shall include, at a minimum, the following items.

(1) Pollution Prevention Team. The plan shall identify a specific individual or individuals within the facility organization as members of a storm water Pollution Prevention Team that are responsible for developing the storm water pollution prevention plan and assisting the facility or plant manager in its implementation, maintenance, and revision. The plan shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's storm water pollution prevention plan.

(2) Description of Potential Pollutant Sources. The plan shall provide a description of potential sources that may reasonably be expected to add significant amounts of pollutants to storm water discharges or that may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. The plan shall identify all activities and significant materials that may potentially be significant pollutant sources. The plan shall include, at a minimum:

(a) Drainage. A site map indicating an outline of the portions of the drainage area of each storm water outfall that are within the facility boundaries, each existing structural control measure to reduce pollutants in storm water runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under Part I.F.2.d.(2)(c) have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations, vehicle and equipment maintenance and/or cleaning areas, loading/unloading areas, locations used for the treatment, storage or disposal of wastes and wastewaters, locations used for the treatment, filtration, or storage of water supplies, liquid storage tanks, processing areas, and storage areas. The map must indicate the outfall locations and the types of discharges contained in the drainage areas of the outfalls; and for each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction

of flow, and an identification of the types of pollutants that are likely to be present in storm water discharges associated with industrial activity. Factors to consider include the toxicity of chemicals; quantity of chemicals used, produced or discharged; the likelihood of contact with storm water; and history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified;

(b) Inventory of Exposed Materials. An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of 3 years prior to the date of submission of the application for this permit and the present; method and location of onsite storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff between the time of 3 years prior to the date of the submission of the application for this permit and the present; the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives;

(c) Spills and Leaks. A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility within the 3 year period immediately prior to the date of submission of the application for this permit. Such list shall be updated as appropriate during the term of the permit;

(d) Sampling Data. A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility, including a summary of sampling data collected during the term of this permit; and

(e) Risk Identification and Summary of Potential Pollutant Sources. A narrative description of the potential pollutant sources from the following activities: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and onsite waste disposal practices, and wastewater treatment activities to include sludge drying, storage, application or disposal activities. The description shall specifically list any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g., biochemical oxygen demand, total suspended solids, etc.) of concern shall be identified.

(3) Measures and Controls. The permittee shall develop a description of storm water management controls appropriate for the facility and implement such controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls.

(a) Good Housekeeping. Good housekeeping requires the clean and orderly maintenance of areas that may contribute pollutants to storm water discharges. The plan shall describe procedures performed to minimize contact of materials with storm water runoff. Particular attention should be paid to areas where raw materials are stockpiled, material handling areas, storage areas, liquid storage tanks, material handling areas, and loading/unloading areas.

(b) Preventive Maintenance. A preventive maintenance program shall involve: timely inspection and maintenance of storm water management devices (e.g., cleaning oil/water separators, catch basins); inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures which could result in discharges of pollutants to surface waters; and appropriate maintenance of such equipment and systems.

(c) Spill Prevention and Response Procedures. Areas where potential spills can occur that can contribute pollutants to storm water discharges, and their accompanying drainage points, shall be identified clearly in the storm water pollution prevention plan. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to personnel.

(d) Inspections. Facility personnel who are familiar with the industrial activity, the BMPs and the storm water pollution prevention plan shall be identified to inspect designated equipment and areas of the facility. The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained with the pollution prevention plan.

(e) Employee Training. Employee training programs shall inform personnel responsible for implementing activities identified in the storm water pollution prevention plan or otherwise responsible for storm water management at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. The pollution prevention plan shall identify periodic dates for such training.

(f) Recordkeeping and Internal Reporting Procedures. A description of incidents (such as spills, or other discharges), along with other information describing the quality and quantity of storm water discharges shall be included in the plan. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.

(g) Sediment and Erosion Control. The plan shall identify areas that, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.

(h) Management of Runoff. The plan shall contain a narrative consideration of the appropriateness of traditional storm water management practices (practices other than those that control the generation or source(s) of pollutants) used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The plan shall provide for the implementation and maintenance of measures that the permittee determines to be reasonable and appropriate. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices; reuse of collected storm water (such as for a process or as an irrigation source); inlet controls (such as oil/water separators); snow management activities; infiltration devices, wet detention/retention devices; or other equivalent measures.

(4) Comprehensive Site Compliance Evaluation. Qualified facility personnel who are familiar with the industrial activity, the BMPs and the storm water pollution prevention plan shall conduct site compliance evaluations at appropriate intervals specified in the plan, but in no case less than once a year. Such evaluations shall include the following:

(a) Areas contributing to a storm water discharge associated with industrial activity such as material storage, handling, and disposal activities shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made;

(b) Based on the results of the evaluation, the description of potential pollutant sources identified in the plan in accordance with Part I.F.2.d(2) and pollution prevention measures and controls identified in the plan in accordance with Part I.F.2.d.(3) shall be revised as appropriate within 2 weeks of such evaluation and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than 12 weeks after the evaluation;

(c) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the storm water pollution prevention plan, and actions

taken in accordance with Part I.F.2.d.(b) shall be made and retained as part of the storm water pollution prevention plan for at least 3 years from the date of the evaluation. The report shall identify any incidents of noncompliance. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the storm water pollution prevention plan and this permit. The report shall be signed in accordance with Part II.K; and

(d) Where compliance evaluation schedules overlap with inspections required under Part I.F.2.d.(3)(d), the compliance evaluation may be conducted in place of one such inspection.

e. Special Pollution Prevention Plan Requirements

In addition to the minimum standards listed in Part I.F.2.d. and Part I.F.3., the storm water pollution prevention plan shall include a complete discussion of measures taken to conform with the following applicable guidelines.

(1) Additional Requirements for Storm Water Discharges Associated With Industrial Activity From Facilities Subject to EPCRA Section 313 Requirements. In addition to the requirements of Part I.F.3. and other applicable conditions of this permit, storm water pollution prevention plans for facilities subject to reporting requirements under EPCRA Section 313, prior to May 1, 1997, for chemicals that are classified as Section 313 water priority chemicals, except as provided in Part I.F.2.e.(1)(b)ii., and where there is the potential for these chemicals to mix with storm water discharges, shall describe and ensure the implementation of practices that are necessary to provide for conformance with the following guidelines.

(a) In areas where Section 313 water priority chemicals are stored, processed or otherwise handled, appropriate containment, drainage control and/or diversionary structures shall be provided unless otherwise exempted under Part I.F.2.e.(1)(c). At a minimum, one of the following preventive systems or its equivalent shall be used:

i. Curbing, culverting, gutters, sewers, or other forms of drainage control to prevent or minimize the potential for storm water runon to come into contact with significant sources of pollutants; or

ii. Roofs, covers or other forms of appropriate protection to prevent storage piles from exposure to storm water and wind.

(b) In addition to the minimum standards listed under Part I.F.2.e.(1)(a), and except as otherwise exempted under Part I.F.2.e.(1)(c), the storm water pollution prevention plan shall include a complete discussion of measures taken to conform with other effective storm water pollution prevention procedures, and applicable state rules, regulations, and guidelines.

i. Liquid Storage Areas Where Storm Water Comes Into Contact With Any Equipment, Tank, Container, or Other Vessel Used for Section 313 Water Priority Chemicals.

-- No tank or container shall be used for the storage of a Section 313 water priority chemical unless its material and construction are compatible with the material stored and conditions of storage such as pressure and temperature, etc.

-- Liquid storage areas for Section 313 water priority chemicals shall be operated to minimize discharges of Section 313 chemicals. Appropriate measures to minimize discharges of Section 313 chemicals may include secondary containment provided for at least the entire contents of the largest single tank plus sufficient freeboard to allow for precipitation, a strong spill contingency and integrity testing plan, and/or other equivalent measures.

ii. Material Storage Areas for Section 313 Water Priority Chemicals Other Than Liquids. Material storage areas for Section 313 water priority chemicals other than liquids that are subject to runoff, leaching, or wind shall incorporate drainage or other control features that will minimize the discharge of Section 313 water priority chemicals by reducing storm water contact with those chemicals.

iii. Truck and Rail Car Loading and Unloading Areas for Liquid Section 313 Water Priority Chemicals. Truck and rail car loading and unloading areas for liquid Section 313 water priority chemicals shall be operated to minimize discharges of those chemicals. Protection such as overhangs or door skirts to enclose trailer ends at truck loading/unloading docks shall be provided as appropriate. Appropriate measures to minimize discharges of Section 313 chemicals may include: the placement and maintenance of drip pans (including the proper disposal of materials collected in the drip pans) where spillage may occur (such as hose connections, hose reels and filler nozzles) for use when making and breaking hose connections; a strong spill contingency and integrity testing plan; and/or other equivalent measures.

iv. Areas Where Section 313 Water Priority Chemicals Are Transferred, Processed, or Otherwise Handled. Processing equipment and materials handling equipment shall be operated so as to minimize discharges of Section 313 water priority chemicals. Materials used in piping and equipment shall be compatible with the substances handled. Drainage from process and materials handling areas shall minimize storm water contact with Section 313 water priority chemicals. Additional protection such as covers or guards to prevent exposure to wind, spraying or releases from pressure relief vents from causing a discharge of Section 313 water priority chemicals to the drainage system shall be provided as appropriate. Visual inspections or leak tests shall be provided for overhead piping conveying Section 313 water priority chemicals without secondary containment.

v. Discharges From Areas Covered by Paragraphs i, ii, iii, or iv of Part I.F.2.e.(1)(b).

-- Drainage from areas covered by paragraphs i, ii, iii, or iv of Part I.F.2.e.(1)(b) should be restrained by valves or other positive means to prevent the discharge of a spill or other

excessive leakage of Section 313 water priority chemicals. Where containment units are employed, such units may be emptied by pumps or ejectors; however, these shall be manually activated.

-- Flapper-type drain valves shall not be used to drain containment areas. Valves used for the drainage of containment areas should, as far as is practical, be of manual, open-and-closed design.

-- If facility drainage is not engineered as above, the final discharge of all in-facility storm sewers shall be equipped to be equivalent with a diversion system that could, in the event of an uncontrolled spill of Section 313 water priority chemicals, return the spilled material to the facility.

-- Records shall be kept of the frequency and estimated volume (in gallons) of discharges from containment areas.

vi. Facility Site Runoff Other Than From Areas Covered By Paragraphs i, ii, iii, or iv of Part I.F.2.e.(1)(b). Other areas of the facility (those not addressed in paragraphs i, ii, iii, or iv of Part I.F.2.e.(1)(b), from which runoff that may contain Section 313 water priority chemicals or spills of Section 313 water priority chemicals could cause a discharge shall incorporate the necessary drainage or other control features to prevent discharge of spilled or improperly disposed material and ensure the mitigation of pollutants in runoff or leachate.

vii. Preventive Maintenance and Housekeeping. All areas of the facility shall be inspected at specific intervals identified in the plan for leaks or conditions that could lead to discharges of Section 313 water priority chemicals or direct contact of storm water with raw materials, intermediate materials, waste materials or products. In particular, facility piping, pumps, storage tanks and bins, pressure vessels, process and material handling equipment, and material bulk storage areas shall be examined for any conditions or failures that could cause a discharge. Inspection shall include examination for leaks, wind blowing, corrosion, support or foundation failure, or other forms of deterioration or noncontainment. Inspection intervals shall be specified in the plan and shall be based on design and operational experience. Different areas may require different inspection intervals. Where a leak or other condition is discovered that may result in significant releases of Section 313 water priority chemicals to waters of the United States, action to stop the leak or otherwise prevent the significant release of Section 313 water priority chemicals to waters of the United States shall be immediately taken or the unit or process shut down until such action can be taken. When a leak or noncontainment of a Section 313 water priority chemical has occurred, contaminated soil, debris, or other material must be promptly removed and disposed in accordance with Federal, State, and local requirements and as described in the plan.

viii. Facility Security. Facilities shall have the necessary security systems to prevent accidental or intentional entry that could cause a discharge. Security systems described in the plan shall address fencing, lighting, vehicular traffic control, and securing of equipment and buildings.

ix. Training. Facility employees and contractor personnel that work in areas where Section 313 water priority chemicals are used or stored shall be trained in and informed of preventive measures at the facility. Employee training shall be conducted at intervals specified in the plan, but not less than once per year. Training shall address pollution control laws and regulations, the storm water pollution prevention plan and the particular features of the facility and its operation that are designed to minimize discharges of Section 313 water priority chemicals. The plan shall designate a person who is accountable for spill prevention at the facility and who will set up the necessary spill emergency procedures and reporting requirements so that spills and emergency releases of Section 313 water priority chemicals can be isolated and contained before a discharge of those chemicals can occur. Contractor or temporary personnel shall be informed of facility operation and design features in order to prevent discharges or spills from occurring.

(c) Facilities subject to reporting requirements under EPCRA Section 313 for chemicals that are classified as Section 313 water priority chemicals that are handled and stored onsite only in gaseous or nonsoluble liquid or solid (at atmospheric pressure and temperature) forms may provide a certification as such in the pollution prevention plan in lieu of the additional requirements in Part I.F.2.e.(1). Such certification shall include a narrative description of all water priority chemicals and the form in which they are handled and stored, and shall be signed in accordance with Part II.K.

(d) The storm water pollution prevention plan shall be certified in accordance with Part II.K.

(2) Additional Requirements for Salt Storage. Storage piles of salt used for deicing or other commercial or industrial purposes and that generate a storm water discharge associated with industrial activity that is discharged to surface waters shall be enclosed or covered to prevent exposure to precipitation, except for exposure resulting from adding or removing materials from the pile. Permittees shall demonstrate compliance with this provision as expeditiously as practicable, but in no event later than 3 years after the effective date of this permit. Permittees with previous coverage under a VPDES permit that included this requirement shall be compliant with this provision upon submittal of the permit application. Piles do not need to be enclosed or covered where storm water from the pile is not discharged to surface waters.

3. Sector-Specific Storm Water Pollution Prevention Plan Requirements

In addition to the requirements of Part I.F.2., the plan shall include, at a minimum, the following items.

a. Description of Potential Pollutant Sources
Drainage. A site map which clearly outlines the locations of the following, as they apply to the facility: processing areas and buildings; treatment ponds; location of short and long term storage of general materials (including but not limited to: supplies, construction materials, plant equipment, oils, fuels, used and unused solvents, cleaning materials, paint, water treatment chemicals, fertilizers, and pesticides); landfills; location of construction sites; and locations of stock pile areas (such as coal piles and limestone piles).

b. Measures and Controls
(1) Good Housekeeping. The following areas must be specifically addressed.
(a) Fugitive Dust Emissions. The plan must describe measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize offsite tracking of coal dust. To prevent offsite tracking the facility may consider specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.
(b) Delivery Vehicles. The plan must describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee should consider the following: i) Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and ii) Develop procedures to deal with leakage or spillage from vehicles or containers, and ensure that proper protective measures are available for personnel and environment.
(c) Fuel Oil Unloading Areas. The plan must describe measures that prevent or minimize contamination of storm water runoff from fuel oil unloading areas. At a minimum the permittee must consider using the following measures, or an equivalent: i) Use containment curbs in unloading areas; ii) During deliveries station personnel familiar with spill prevention and response procedures must be present to ensure that any leaks or spills are immediately contained and cleaned up; and iii) Use spill and overflow protection (drip pans, drip diapers, and/or other containment devices shall be placed beneath fuel oil connectors to contain any spillage that may occur during deliveries or due to leaks at such connectors).
(d) Chemical Loading/Unloading Areas. The plan must describe measures that prevent or minimize the contamination of storm water runoff from chemical loading/unloading areas. Where practicable, chemical loading/unloading areas should be covered, and chemicals should be stored indoors. At a minimum the permittee must consider using the following measures or an equivalent: i) Use containment curbs at chemical loading/unloading areas to contain spills; and ii) During deliveries station

personnel familiar with spill prevention and response procedures must be present to ensure that any leaks or spills are immediately contained and cleaned up.

(e) Miscellaneous Loading/Unloading Areas. The plan must describe measures that prevent or minimizes the contamination of storm water runoff from loading and unloading areas. The plan may consider covering the loading area, minimizing storm water runon to the loading area by grading, berming, or curbing the area around the loading area to direct storm water away from the area, or locate the loading/unloading equipment and vehicles so that leaks can be contained in existing containment and flow diversion systems.

(f) Liquid Storage Tanks. The plan must describe measures that prevent or minimize contamination of storm water runoff from above ground liquid storage tanks. At a minimum the permittee must consider employing the following measures or an equivalent: i) Use protective guards around tanks; ii) Use containment curbs; iii) Use spill and overflow protection (drip pans, drip diapers, and/or other containment devices shall be placed beneath chemical connectors to contain any spillage that may occur during deliveries or due to leaks at such connectors); and iv) Use dry cleanup methods.

(g) Large Bulk Fuel Storage Tanks. The plan must describe measures that prevent or minimize contamination of storm water runoff from liquid storage tanks. At a minimum the permittee must consider employing the following measures, or an equivalent: i) Comply with applicable State and Federal laws, including Spill Prevention Control and Countermeasures (SPCC); and ii) Containment berms.

(h) The plan must describe measures to reduce the potential for an oil spill, or a chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all above ground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(i) Oil Bearing Equipment in Switchyards. The plan must describe measures to reduce the potential for storm water contamination from oil bearing equipment in switchyard areas. The permittee may consider level grades and gravel surfaces to retard flows and limit the spread of spills; collection of storm water runoff in perimeter ditches.

(j) Residue Hauling Vehicles. All residue-hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the body or container. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds must be repaired as soon as practicable.

(k) Ash Louding Areas. Plant procedures shall be established to reduce and/or control the tracking of ash or residue from ash loading areas for example, where practicable, requirements to clear the ash building floor and

immediately adjacent roadways of spillage, debris and excess water.

(l) Areas Adjacent to Disposal Ponds or Landfills. The plan must describe measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee must develop procedures to: i) Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and ii) Reduce ash residue on exit roads leading into and out of residue handling areas.

(m) Landfills, Scrapyards, Surface Impoundments, Open Dumps, General Refuse Sites. The plan must address landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(n) Maintenance Activities. For vehicle maintenance activities performed on the plant site, the permittee shall use the following BMPs where applicable: (i) Vehicle and Equipment Storage Areas. The storage of vehicles and equipment awaiting maintenance with actual or potential fluid leaks must be confined to designated areas (delineated on the site map). The plan must describe measures that prevent or minimize contamination of the storm water runoff from these areas. The permittee shall consider the use of drip pans under vehicles and equipment, indoor storage of the vehicles and equipment, installation of berming and diking of this area, use of absorbents, roofing or covering storage areas, cleaning pavement surface to remove oil and grease, or other equivalent methods; (ii) Fueling Areas. The plan must describe measures that prevent or minimize contamination of the storm water runoff from fueling areas. The permittee shall consider covering the fueling area, using spill and overflow protection and cleanup equipment, minimizing runon/runoff of storm water to the fueling area, using dry cleanup methods, collecting the storm water runoff and providing treatment or recycling, or other equivalent measures; (iii) Material Storage Areas. Storage units of all materials (e.g., used oil, used oil filters, spent solvents, paint wastes, radiator fluids, transmission fluids, hydraulic fluids) must be maintained in good condition, so as to prevent contamination of storm water, and plainly labeled (e.g., "used oil," "spent solvents," etc.). The plan must describe measures that prevent or minimize contamination of the storm water runoff from such storage areas. The permittee shall consider indoor storage of the materials, installation of berming and diking of the area, minimizing runon/runoff of storm water to the areas, using dry cleanup methods, collecting the storm water runoff and providing treatment, or other equivalent methods; (iv) Vehicle and Equipment Cleaning Areas. The plan must describe measures that prevent or minimize contamination of the storm water runoff from all areas used for vehicle and equipment cleaning. The permittee shall consider performing all cleaning operations indoors, covering the cleaning operation, ensuring that all washwaters drain to the intended collection system (i.e., not the storm water drainage system unless VPDES permitted), collecting the storm water runoff from the cleaning area and providing treatment or recycling, or other equivalent

measures. The discharge of vehicle and equipment wash waters, including tank cleaning operations, are not covered under this section; and (v) Vehicle and Equipment Maintenance Areas. The plan must describe measures that prevent or minimize contamination of the storm water runoff from all areas used for vehicle and equipment maintenance. The permittee shall consider performing all maintenance activities indoors, using drip pans, maintaining an organized inventory of materials used in the shop, draining all parts of fluids prior to disposal, prohibiting wet clean up practices where the practices would result in the discharge of pollutants to storm water drainage systems, using dry cleanup methods, collecting the storm water runoff from the maintenance area and providing treatment or recycling, minimizing runon/runoff of storm water areas or other equivalent measures.

(o) Material Storage Areas. The plan must describe measures that prevent or minimize contamination of storm water from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay down areas). The permittee may consider flat yard grades, runoff collection in graded swales or ditches, erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins), covering lay down areas, storing the materials indoors, covering the material with a temporary covering made of polyethylene, polyurethane, polypropylene, or hypalon. Storm water runon may be minimized by constructing an enclosure or building a berm around the area.

(2) Inspections. Qualified facility personnel shall be identified to inspect the following areas: coal handling areas, loading/unloading areas, switchyards, fueling areas, bulk storage areas, ash handling areas, areas adjacent to disposal ponds and landfills, maintenance areas, liquid storage tanks, and long term and short term material storage areas.

(3) Employee Training. Training should address topics such as goals of the pollution prevention plan, spill prevention and control, proper handling procedures for hazardous wastes, good housekeeping and material management practices, and storm water sampling techniques. The pollution prevention plan shall identify periodic dates for such training, but in all cases training must be held at least annually.

FACILITY NAME: Dominion – Bremo Power Station
ADDRESS: 1038 Bremo Road
Bremo Bluff, VA 23022

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY MONITORING

OUTFALL NO. 002

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY[3]
PESTICIDES						
72-54-8	DDD	608	0.1		G	1/5 YR
72-55-9	DDE	608	0.1		G	1/5 YR
7421-93-4	Endrin Aldehyde	(4)	(5)		G	1/5 YR
1024-57-3	Heptachlor Epoxide	(4)	(5)		G	1/5 YR
319-84-6	Hexachlorocyclohexane Alpha-BHC	608	(5)		G	1/5 YR
319-85-7	Hexachlorocyclohexane Beta-BHC	608	(5)		G	1/5 YR
143-50-0	Kepone	(7)	(5)		G	1/5 YR
60-10-5	Tributyltin [6]	NBSR 85-3295	(5)		G	1/5 YR
VOLATILES						
74-83-9	Methyl Bromide	(4)	(5)		G	1/5 YR

Name of Principal Exec. Officer or Authorized Agent/Title

Signature of Principal Officer or Authorized Agent/Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Footnotes to Water Quality Monitoring Attachment A

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained.

(2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

(3) Frequency: 1/5 YR = once after the start of the third year from the permit's effective date.

(4) Any approved method presented in 40 CFR Part 136.

(5) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

(6) Analytical Methods: NBSR 85-3295 or DEQ's approved analysis for Tributyltin may also be used [See A Manual for the Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science, dated November 1996].

(7) The lab may use SW846 Method 8270C provided the lab has an Initial Demonstration of Capability, has passed a PT for Kepone, and meets the acceptance criteria for Kepone as given in Method 8270C.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.

2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.

3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records

1. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) and time(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Department of Environmental Quality
   Valley Regional Office
   P.O. Box 3000
   Harrisonburg, Virginia 22801

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of State waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into State waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or

2. Otherwise alter the physical, chemical or biological properties of such State waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon State waters in violation of Part II.F.; or who discharges or causes or allows a discharge that may reasonably be expected to enter State waters

in violation of Part II.F., shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter State waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect State waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:

   a. Any unanticipated bypass; and

   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:

   a. A description of the noncompliance and its cause;

   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and

   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I. if the oral report has been received within 24 hours and no adverse impact on State waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II.I.1. or 2., in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II.G, H, and I may be made to the Department's Valley Regional Office at (540) 574-7800 (voice) or (540) 574-7878 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

      (1) After promulgation of standards of performance under Section 306 of the Clean Water Act which are applicable to such source; or

      (2) After proposal of standards of performance in accordance with Section 306 of the Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including

notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. Applications. All permit applications shall be signed as follows:

   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

   b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

   c. For a municipality, State, Federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part II.K.1.;

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

   c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II.K.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2. shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II.K.1. or 2. shall make the following certification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of Federal, State or local law or regulations.

O. State Law

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other State law or regulation or under authority preserved by Section 510 of the Clean Water Act.

Except as provided in permit conditions on "bypassing" (Part II.U.), and "upset" (Part II.V.) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering State waters.

S. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II.U.2. and U.3.

2. Notice

   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.

   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.

3. Prohibition of bypass

   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:

      (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

      (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

      (3) The permittee submitted notices as required under Part II.U.2.

   b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2. are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   a. An upset occurred and that the permittee can identify the cause(s) of the upset;

   b. The permitted facility was at the time being properly operated;

   c. The permittee submitted notice of the upset as required in Part II.I.; and

   d. The permittee complied with any remedial measures required under Part II.S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of Permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II.Y.1., this permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;

   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. VA0004138

Effective Date:
Expiration Date:

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I - Effluent Limitations and Monitoring Requirements, and Part II – Conditions Applicable To All VPDES Permits, as set forth herein.

Owner:	**Virginia Electric and Power Company**
Facility Name:	**Dominion – Bremo Power Station**
County:	**Fluvanna**
Facility Location:	**1038 Bremo Road, Bremo Bluff**

The owner is authorized to discharge to the following receiving stream:

Stream:	James River (Outfalls 001-004 and 006-008)
River Basin:	James River (Middle)
River Subbasin:	N/A
Section:	10
Class:	III
Special Standards:	None

Amy T. Owens, Regional Director
Valley Regional Office

Date:

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall 001 (Once-Through Condenser Cooling Water).

   This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [a]	NL	NA	NA	NL	1/Day	Calculated
pH (standard units)	NA	NA	6.0	9.0	1/Month	Grab
Total Recoverable Copper (ug/L) [b]	9.0	NA	NA	9.0	1/Month	Grab
Total Residual Chlorine (TRC)(mg/L) [b,c]	0.0099	NA	NA	0.02	1/Day	Grab
Heat Rejection ($x10^9$ BTU/Hr) [d]	NA	NA	NA	1.62	1/Month	Calculated
Temperature (°C)	NL	NA	NA	NL	1/Day	IS
Intake Temperature (°C)	NL	NA	NA	NL	1/Day	IS

NL = No Limitation, monitoring required *NA = Not Applicable* *IS = Immersion Stabilization*

a. There are no wastewater treatment facilities. The permit is based on a once-through condenser cooling water flow of 157.6 MGD.
b. See Part I.C for additional monitoring instructions.
c. When chlorine is not applied the daily maximum shall be reported as "NR" meaning not required. See Part I.G.10 for additional monitoring instructions.
d. See Part I.G.13 for additional monitoring instructions.
e. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from internal Outfall 101 (Traveling Screen Backwash).

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type

Internal Outfall 101 shall contain only river water from the screen backwash. No monitoring of this outfall is required.

a. There shall be no discharge of process wastewater from this outfall.
b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

3. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from internal Outfall 203 (Discharge from the Sewage Treatment Plant prior to discharge into the Stormwater Management Pond).

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	Monthly Average		Weekly Average		Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [a]	NL		NA		NA	NL	1/Month	Estimate
pH	NA		NA		6.0	9.0	1/Month	Grab
BOD_5 [c]	30 mg/L	4.9 kg/d	45 mg/L	7.4 kg/d	NA	NA	1/Month	Grab
Total Suspended Solids [c]	30 mg/L	4.9 kg/d	45 mg/L	7.4 kg/d	NA	NA	1/Month	Grab
E. coli (N/100 mL) [b]	126 Geometric Mean		NA		NA	NA	4/Month in any month of each calendar year 10 a.m. to 4 p.m.	Grab

NL = No Limitation, monitoring required *NA = Not Applicable*
4/Month in any month of each calendar year = 4 samples with at least 1 sample taken each calendar week, in any calendar month and reported with the December DMR due January 10th of every year

a. The design flow of this treatment facility is 0.0432 MGD. See Part I.G.1 for additional requirements related to facility flows.
b. See Part I.B for disinfection requirements.
c. See Part I.C for additional monitoring instructions.
d. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4. During the period beginning with the permit's effective date and lasting until one of the conditions in Part I.G.19 is met or until internal Outfall 202 is retired, or until the permit's expiration date whichever occurs first, the permittee is authorized to discharge from internal Outfall 202. Internal Outfall 202 is only authorized to discharge to the West Ash Pond.

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	Monthly Average		Weekly Average	Minimum	Maximum		Frequency	Sample Type
Flow (MGD) [a]	NL		NA	NA	NL		1/Month	Estimate
Total Suspended Solids (mg/L) [b]	30.0		NA	NA	100.0		1/Month	Grab
Oil and Grease(mg/L) [b]	15.0		NA	NA	20.0		1/Month	Grab
Total Iron [b]	1.0 mg/L	3.8 kg/d	NA	NA	1.0 mg/L	6.1 kg/d	1/Month	Grab
Total Copper [b]	1.0 mg/L	3.8 kg/d	NA	NA	1.0 mg/L	6.1 kg/d	1/Month	Grab

NL = No Limitation, monitoring required *NA = Not Applicable*

a. The limits are based on a maximum 30-day average flow of 1.0146 MGD and a daily maximum flow of 1.6138 MGD.
b. See Part I.C for additional monitoring instructions.
c. Internal Outfall 202 will be retired following the closure of the Metals Cleaning Waste Treatment Basin.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

5. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall 002. Any discharge from the West Ash Pond to an external outfall must meet the requirements in Part I.A.9.

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [a]	NL	NA	NA	NL	2/Month	Estimate
pH (standard units)	NA	NA	6.0	9.0	2/Month	Grab
Total Suspended Solids (mg/L) [b]	30.0	NA	NA	100.0	2/Month	Grab
Oil & Grease (mg/L) [b]	15.0	NA	NA	20.0	2/Month	Grab
Total Residual Chlorine (TRC)(mg/L) [b,c]	0.036	NA	NA	0.072	1/Day	Grab
TKN (mg/L) [b]	NA	NA	NA	NL	1/Year	Grab
Nitrite-N + Nitrate-N (mg/L) [b]	NA	NA	NA	NL	1/Year	Grab
Total Nitrogen (mg/L) [b,f]	NA	NA	NA	NL	1/Year	Calculated
Total Phosphorus (mg/L) [b]	NA	NA	NA	NL	1/Year	Grab

NL = No Limitation, monitoring required *NA = Not Applicable*
2/Month = 2 samples taken during the calendar month, no less than 7 days apart
1/Year = Annual sampling with the results submitted with the DMR due January 10th of each year

a. The limits are based on a flow of 4.2912 MGD.
b. See Part I.C for additional monitoring and reporting requirements.
c. Effluent from the Stormwater Management Pond may be discharged through Outfall 002. TRC limits and monitoring apply if effluent from the Stormwater Management Pond is discharged through Outfall 002.
d. Sampling for the parameters listed above may take place prior to commingling with treated wastewater from internal Outfalls 501, 502, 503, 504, and 505.
e. During the Stage II dewatering activities when Part I.A.9 is effective, process wastewater from internal Outfalls 501, 502, 503, 504, and 505 may be discharged through Outfall 002.
f. Total Nitrogen, which is the sum of TKN and Nitrite-N + Nitrate-N, shall be derived from the results of those tests.
g. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

6. During the period beginning with the permit's effective date and lasting until Outfall 003 is retired, or until the permit's expiration date, whichever comes first, the permittee is authorized to discharge from Outfall 003.

   a. During the period prior to Part I.A.9 becoming effective, Outfall 003 shall contain only stormwater not associated with a regulated industrial activity where monitoring would be required. There shall be no discharge of process wastewater from Outfall 003 prior to Part I.A.9 becoming effective.
   b. During the Stage II dewatering activities when Part I.A.9 is effective, process wastewater from internal Outfalls 501, 502, 503, 504, and 505 may be discharged through Outfall 003.
   c. Outfall 003 will be retired following the completion of the Stage II dewatering activities at the facility.
   d. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

7. During the period beginning with the permit's effective date and lasting until Outfall 004 is retired, or until the permit's expiration date, whichever occurs first, the permittee is authorized to discharge from Outfall 004. Any discharge from the North Ash Pond to an external outfall must meet the requirements in Part I.A.9.

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [a]	NL	NA	NA	NL	2/Month	Estimate
pH (standard units)	NA	NA	6.0	9.0	2/Month	Grab
Total Suspended Solids (mg/L) [b]	30.0	NA	NA	100.0	2/Month	Grab
Oil & Grease (mg/L) [b]	15.0	NA	NA	20.0	2/Month	Grab
Total Residual Chlorine (TRC)(mg/L) [b,c]	0.036	NA	NA	0.072	1/Day	Grab

NL = No Limitation, monitoring required *NA = Not Applicable*
2/Month = 2 samples taken during the calendar month, no less than 7 days apart

a. The limits are based on a flow of 4.2912 MGD.
b. See Part I.C for additional monitoring and reporting requirements.
c. Effluent from the Stormwater Management Pond may be discharged through Outfall 004. TRC limits and monitoring apply if effluent from the Stormwater Management Pond is discharged through Outfall 004.
d. Sampling for the parameters listed above may take place prior to commingling with treated wastewater from internal Outfalls 501, 502, 503, 504, and 505.
e. During the Stage II dewatering activities when Part I.A.9 is effective, process wastewater from internal Outfalls 501, 502, 503, 504, and 505 may be discharged through Outfall 004.
f. Outfall 004 will be retired following the completion of the Stage II dewatering activities at the facility.
g. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

8. During the period beginning with the permit's effective date and lasting until the permit's expiration date, whichever comes first, the permittee is authorized to discharge from Outfall 006.

   a. During the period prior to Part I.A.9 becoming effective, Outfall 006 shall contain only stormwater not associated with a regulated industrial activity where monitoring would be required. There shall be no discharge of process wastewater from Outfall 006 prior to Part I.A.9 becoming effective.
   b. During the Stage II dewatering activities when Part I.A.9 is effective, process wastewater from Outfalls 501, 502, 503, 504, and 505 may be discharged through Outfall 006.
   c. Following the Stage II dewatering activities, Outfall 006 shall contain only stormwater not associated with a regulated industrial activity where monitoring would be required. There shall be no discharge of process wastewater from Outfall 006 during this period.
   d. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

9. During the period beginning with the permit's effective date and lasting until completion of Stage II dewatering activities, or until the permit's expiration date, whichever comes first, the permittee is authorized to discharge from internal Outfalls 501, 502, 503, 504, and 505 (dewatering wastewaters). Any process wastewater removed from the West Ash Pond, North Ash Pond, and East Ash Ponds for discharge purposes is considered to be process wastewater from dewatering activities. See Part I.G.19 for requirements regarding the decanting and dewatering of the Metal Cleaning Waste Treatment Basin.

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [a]	NL	NA	NA	NL	1/Day	Estimate
pH (standard units)	NA	NA	6.0	9.0	1/Week	Grab
Total Suspended Solids (mg/L) [b]	30.0	NA	NA	100.0	1/Week	4 HC
Oil & Grease (mg/L) [b]	15.0	NA	NA	20.0	1/Week	4 HC
Total Recoverable Antimony (ug/L) [b]	3,400	NA	NA	3,400	1/Week	4 HC
Total Recoverable Arsenic (ug/L) [b]	500	NA	NA	740	1/Week	4 HC
Total Recoverable Cadmium (ug/L) [b]	4.5	NA	NA	6.6	1/Week	4 HC
Total Recoverable Chromium III (ug/L) [b]	500	NA	NA	730	1/Week	4 HC
Total Recoverable Chromium VI (ug/L) [b]	24	NA	NA	35	1/Week	4 HC
Total Recoverable Copper (ug/L) [b]	16	NA	NA	24	1/Week	4 HC
Total Recoverable Lead (ug/L) [b]	73	NA	NA	110	1/Week	4 HC
Total Recoverable Mercury (ug/L) [b]	2.0	NA	NA	3.0	1/Week	4 HC
Total Recoverable Nickel (ug/L) [b]	130	NA	NA	190	1/Week	4 HC
Total Recoverable Selenium (ug/L) [b]	29	NA	NA	43	1/Week	4 HC
Total Recoverable Silver (ug/L) [b]	3.5	NA	NA	5.1	1/Week	4 HC
Total Recoverable Thallium (ug/L) [b]	2.5	NA	NA	2.5	1/Week	4 HC
Total Recoverable Zinc (ug/L) [b]	140	NA	NA	210	1/Week	4 HC
Chloride (mg/L) [b]	1,300	NA	NA	1,900	1/Week	4 HC
Ammonia-N (mg/L) [b]	9.6	NA	NA`	14	1/Week	4 HC
Hardness (mg/L as $CaC0_3$)	NL	NA	NA	NL	1/Week	4 HC
Acute Whole Effluent Toxicity, *Ceriodaphnia dubia* (%) [c]	NA	NA	100	NA	1/Month	24 HC
Chronic Whole Effluent Toxicity, *Ceriodaphnia dubia* (TU_c) [c]	NA	NA	NA	6.25	1/Month	24 HC
Acute Whole Effluent Toxicity, *Pimephales promelas* (%) [c]	NA	NA	100	NA	1/Month	24 HC
Chronic Whole Effluent Toxicity, *Pimephales promelas* (TU_c) [c]	NA	NA	NA	6.25	1/Month	24 HC

NL = No Limitation, monitoring required *NA = Not Applicable* *4 HC = 4- hour Composite* *24 HC = 24- hour Composite*

a. The limits are based on a flow of 10.2912 MGD.
b. See Part I.C for additional monitoring instructions.
c. See Part I.E for additional monitoring instructions.
d. The discharges from internal Outfalls 501, 502, 503, 504, and 505 are authorized to discharge to the Stormwater Management Pond and West Treatment Pond and through Outfalls 002, 003, 004, and/or 006.
e. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

10. During the period beginning with the discharge of process wastewater from dewatering activities through internal Outfalls 501, 502, 503, 504, and 505 and lasting until the discharge of process wastewater from dewatering activities ceases, or until the permit's expiration date, whichever comes first, the permittee is authorized to discharge from Outfall 999*.

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow, MGD	NL	NA	NA	NL	1/Month	Calculated

NL = No Limitation, monitoring required *NA = Not Applicable*

*Outfall 999 is not an existing discharge point. It is a means of reporting total flow discharged through internal Outfalls 501, 502, 503, 504, and 505 during the Stage II dewatering activities for the North Ash Pond, East Ash Ponds, West Ash Pond, and Metal Cleaning Waste Treatment Basin. The limits are based on a flow of 10.2912 MGD.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS – FINAL CONFIGURATION

11. Upon completion of construction of Outfalls 007 and 008 and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfalls 007 and 008 (Stormwater not exposed to industrial activity).

This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Outfalls 007 and 008 shall contain only stormwater not associated with a regulated industrial activity where monitoring would be required.						

a. There shall be no discharge of process wastewater from this outfall.
b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

B. ADDITIONAL TRC AND E. COLI LIMITATIONS AND MONITORING REQUIREMENTS – Outfall 203

1. TRC shall be monitored at the outlet of each operating chlorine contact tank, 1/Day by grab sample.

2. No more than 3 samples for TRC taken at the outlet of each operating chlorine contact tank, shall be less than 1.0 mg/L for any one calendar month.

3. No TRC sample collected at the outlet of any operating chlorine contact tank, shall be less than 0.6 mg/L.

4. If chlorine disinfection is not used, E. coli shall be limited and monitored by the permittee as specified below:

	Discharge Limit	Monitoring Requirements	
	Monthly Average	Frequency	Sample Type
E. coli	126	4/Month*	Grab
(N/100 mL)	(Geometric Mean)	Between 10 a.m. and 4 p.m.	

*4/Month = 4 samples taken monthly, with at least 1 sample taken each calendar week

This E. coli requirement, if applicable, shall substitute for the TRC and E. coli requirements specified above and elsewhere in this permit.

C. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - ADDITIONAL INSTRUCTIONS

1. The quantification levels (QLs) shall be less than or equal to the following concentrations:

Effluent Characteristic	QL
BOD_5	2 mg/L
Total Suspended Solids	1.0 mg/L
Total Residual Chlorine	0.10 mg/L
Ammonia-N	0.20 mg/L
Oil & Grease	5.0 mg/L
Chloride	10 mg/L
Total Recoverable Antimony	3,400 ug/L
Total Recoverable Arsenic	300 ug/L
Total Recoverable Cadmium	2.6 ug/L
Total Recoverable Chromium III	300 ug/L
Total Recoverable Chromium VI	14 ug/L
Total Recoverable Copper	9.4 ug/L
Total Recoverable Lead	44 ug/L
Total Recoverable Mercury	1.2 ug/L
Total Recoverable Nickel	80 ug/L
Total Recoverable Selenium	17 ug/L
Total Recoverable Silver	2.0 ug/L
Total Recoverable Thallium	2.5 ug/L
Total Recoverable Zinc	84 ug/L
Total Copper	1.0 ug/L
Total Iron	1.0 ug/L

The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained. The permittee shall use any method in accordance with Part II.A of this permit.

2. Compliance Reporting

   a. Monthly Average – Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.C.1 shall be determined as follows: All concentration data below the QL used for the analysis shall be treated as zero. All concentration data equal to or above the QL used for the analysis shall be treated as it is reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL used for the analysis, then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported monthly average concentration is <QL, then report "<QL" for the quantity. Otherwise use the reported concentration data (including the defined zeros) and flow data for each sample day to determine the daily quantity and report the monthly average of the calculated daily quantities.

   b. Daily Maximum – Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in Part I.C.1 shall be determined as follows: All concentration data below the QL used for the analysis shall be treated as zero. All concentration data equal to or above the QL used for the analysis shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL used for the analysis, then the maximum value of the daily averages shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported daily maximum concentration is <QL, then report "<QL" for the quantity. Otherwise use the reported daily average concentrations (including the defined zeros) and corresponding daily flows to determine daily average quantities and report the maximum of the daily average quantities during the reporting month.

   c. Single Datum – Any single datum required shall be reported as "<QL" if it is less than the QL used for the analysis. Otherwise the numerical value shall be reported.

   d. The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

   e. Nutrient reporting – For TP, all daily concentration data below the quantification level (QL) for the analytical method used shall be treated as half the QL. All daily concentration data equal to or above the QL for the analytical method used shall be treated as it is reported.

      For TN, if none of the daily concentration data for the respective species (i.e., TKN, Nitrates/Nitrites) are equal to or above the QL for the respective analytical methods used, the daily TN concentration value reported shall equal one half of the largest QL used for the respective species. If one of the data is equal to or above the QL, the daily TN concentration value shall be treated as that data point is reported. If more than one of the data is above the QL, the daily TN concentration value shall equal the sum of the data points as reported.

D. GROUNDWATER MONITORING PLAN (GWMP)

The permittee shall continue sampling and reporting in accordance with the GWMP approved on September 11, 2013. The purpose of this plan is to determine if the system integrity is being maintained and to indicate if activities at the site are resulting in violations of the Board's Groundwater Standards. The approved plan is an enforceable part of the permit. Any changes to the plan must be submitted for approval to the DEQ-Valley Regional Office.

If monitoring results indicate that any unit has contaminated the groundwater, the permittee shall submit a corrective action plan within 60 days of being notified by the DEQ-Valley Regional Office. The plan shall set forth the steps to be taken by the permittee to ensure that the contamination source is eliminated or that the contaminant plume is contained on the permittee's property. In addition, based on the extent of contamination, a risk analysis may be required. Once approved, this plan and/or analysis shall be incorporated into the permit by reference and become an enforceable part of this permit.

Existing groundwater monitoring, corrective action and/or risk assessment plans currently in effect under this VPDES Permit shall remain in effect until such time that they are superseded by groundwater monitoring plan requirements issued pursuant to the Virginia Solid Waste Management Regulations (VSWMR) (9VAC20-81-10 *et seq.).* The permittee shall be notified when groundwater monitoring in accordance with this provision has been superseded and within 90 days of such notification, shall submit an updated groundwater monitoring plan to reflect groundwater monitoring that will continue in accordance with the paragraph below.

Where a unit will continue to operate and is not subject to the VSWMR for closure or post-closure, groundwater monitoring shall continue in accordance with this VPDES Permit and the approved groundwater monitoring plan.

E. WHOLE EFFLUENT TOXICITY (WET) REQUIREMENTS

1. Biological Monitoring - Outfall 001

a. In accordance with the schedule in Part I.E.1.f, the permittee shall conduct quarterly acute and chronic toxicity tests using 24-hour flow-proportioned composite samples of final effluent collected from Outfall 001.

The acute tests shall be a 48-Hour Static Acute test using *Ceriodaphnia dubia* and a 48-Hour Static Acute test using *Pimephales promelas*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, with a minimum of 4 replicates per dilution and a minimum of 5 organisms per replicate for calculation of a valid No Observed Adverse Effect Concentration (NOAEC). The NOAEC should be determined by hypothesis testing. The LC_{50} should also be determined, noted, and submitted in the required test report. Tests in which control survival is less than 90% are not acceptable. Any retest of an unacceptable test must be performed within the same testing period as the unacceptable test.

The chronic tests shall be a Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia* and a Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, in order to determine the No Observed Effect Concentration (NOEC) for survival and reproduction or growth. Results which cannot be determined (i.e. a "less than" or “zero” NOEC value) are not acceptable, and a retest requiring further dilution must be performed. Any retest of an unacceptable test must be performed within the same testing period as the unacceptable test. Such “less than” or “zero” results must be submitted and will be regarded as evidence of effluent toxicity. Express the results as chronic Toxicity Units (TU_c) by dividing 100/NOEC. Report the LC_{50} for each chronic test at the 48-hour point, and the IC_{25}, if calculable, with the NOECs in the required test report.

b. During the term of the permit, the permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

c. The test dilutions shall be able to determine compliance with the following endpoints:

(1) Acute NOAEC of 100%
(2) Chronic NOEC of 79%, equivalent to 1.27 TU_c

d. The test data will be evaluated statistically for reasonable potential at the conclusion of the permit term. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should DEQ evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule may be required and the toxicity tests of Part I.E.1.a may be discontinued upon written notification from DEQ. If the data indicate that no limit is needed, the permittee shall continue acute and chronic toxicity testing of the outfall as specified in Part I.E.1.f.

e. The permit may be modified, or revoked and reissued to include pollutant specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limits must control the toxicity of the effluent.

f. The permittee shall supply 1 copy of a comprehensive test report for each test type and species for the toxicity tests specified in Part I.E.1.a in accordance with the following schedule:

Monitoring Period	Testing Period	Report Submittal Dates
1st Quarter	April 1 – June 30, 2016	July 10, 2016
2nd Quarter	July 1 – September 30, 2016	October 10, 2016
3rd Quarter	October 1 – December 31, 2016	January 10, 2017
4th Quarter	January 1 – March 31, 2017	April 10, 2017
1st Annual	April 1 – December 31, 2017	January 10, 2018
2nd Annual	January 1 – December 31, 2018	January 10, 2019
3rd Annual	January 1 – December 31, 2019	January 10, 2020
4th Annual	January 1 – December 31, 2020	January 10, 2021

2. Biological Monitoring - Outfalls 002 and 004

a. In accordance with the schedule in Part I.E.2.f, the permittee shall conduct separate annual acute and chronic toxicity tests using 24-hour flow-proportioned composite samples of final effluent collected from Outfall 002 and Outfall 004. These samples may be collected prior to commingling with treated wastewater from internal Outfalls 501, 502, 503, 504, and 505. These requirements no longer apply at Outfall 004 once Outfall 004 is retired or at Outfall 002 once the West Treatment Pond is operating in its final configuration, no further discharge of process wastewater from dewatering activities is occurring from Outfall 002, and Part I.E.3 becomes effective.

The acute test shall be a 48-Hour Static Acute test using *Ceriodaphnia dubia*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, for calculation of a valid LC_{50} and corresponding acute Toxic Units (TU_a). For DMR reporting, the TU_a shall be calculated by dividing $100/LC_{50}$. Tests in which control survival is less than 90% are not acceptable. Any retest of an unacceptable test must be performed within the same testing period as the unacceptable test.

The chronic tests shall be a Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, in order to determine the No Observed Effect Concentration (NOEC) for survival and reproduction. Results which cannot be determined (i.e. a "less than" or "zero" NOEC value) are not acceptable, and a retest requiring further dilution must be performed. Any retest of an unacceptable test must be performed within the same testing period as the unacceptable test. Such "less than" or "zero" results must be submitted and will be regarded as evidence of effluent toxicity. Express the results as chronic Toxicity Units (TU_c) by dividing 100/NOEC. Report the LC_{50} for each chronic test at the 48-hour point, and the IC_{25}, if calculable, with the NOECs in the required test report.

b. During the term of the permit, the permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

c. The test dilutions shall be able to determine compliance with the following endpoints:

(1) Acute LC_{50} of 100%, equivalent to 1.0 TU_a
(2) Chronic NOEC of 22%, equivalent to 4.55 TU_c

d. The test data will be evaluated statistically for reasonable potential at the conclusion of the permit term. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should DEQ evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule may be required and the toxicity tests of Part I.E.2.a may be discontinued upon written notification from DEQ. If the data indicate that no limit is needed, the permittee shall continue acute toxicity testing of the outfall quarterly, as specified in Part I.E.2.e.

e. The permit may be modified, or revoked and reissued to include pollutant specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limits must control the toxicity of the effluent.

f. The permittee shall supply 1 copy of a comprehensive test report for each test type and species specified in Part I.E.2.a in accordance with the following schedule:

Monitoring Period	Testing Period	Report Submittal Dates
1st Annual	February 1 – December 31, 2016	January 10, 2017
2nd Annual	January 1 – December 31, 2017	January 10, 2018
3rd Annual	January 1 – December 31, 2018	January 10, 2019
4th Annual	January 1 – December 31, 2019	January 10, 2020

3. Biological Monitoring - Outfall 002 (West Treatment Pond) Final Configuration

a. In accordance with the schedule in Part I.E.3.f, the permittee shall conduct quarterly acute and chronic toxicity tests using 24-hour flow-proportioned composite samples of final effluent collected from Outfall 002.

The acute tests shall be a 48-Hour Static Acute test using *Ceriodaphnia dubia* and a 48-Hour Static Acute test using *Pimephales promelas*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, for calculation of a valid LC_{50} and corresponding acute Toxic Units (TU_a). For DMR reporting, the TU_a shall be calculated by dividing $100/LC_{50}$. Tests in which control survival is less than 90% are not acceptable. Any retest of an unacceptable test must be performed within the same testing period as the unacceptable test.

The chronic tests shall be a Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia* and a Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, in order to determine the No Observed Effect Concentration (NOEC) for survival and reproduction or growth. Results which cannot be determined (i.e. a "less than" or "zero" NOEC value) are not acceptable, and a retest requiring further dilution must be performed. Any retest of an unacceptable test must be performed within the same testing period as the unacceptable test. Such "less than" or "zero" results must be submitted and will be regarded as evidence of effluent toxicity. Express the results as chronic Toxicity Units (TU_c) by dividing 100/NOEC. Report the LC_{50} for each chronic test at the 48-hour point, and the IC_{25}, if calculable, with the NOECs in the required test report.

b. During the term of the permit, the permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

c. The test dilutions shall be able to determine compliance with the following endpoints:

(1) Acute LC_{50} of 100%, equivalent to 1.0 TU_a
(2) Chronic NOEC of 21%, equivalent to 4.76 TU_c

d. The test data will be evaluated statistically for reasonable potential at the conclusion of the permit term. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should DEQ evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule may be required and the toxicity tests of Part I.E.3.a may be discontinued upon written notification from DEQ. If the data indicate that no limit is needed, the permittee shall continue acute toxicity testing of the outfall quarterly, as specified in Part I.E.3.e.

e. The permit may be modified, or revoked and reissued to include pollutant specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limits must control the toxicity of the effluent.

f. The permittee shall supply 1 copy of a comprehensive test report for each test type and species for the toxicity tests specified in Part I.E.3.a in accordance with the following schedule:

Monitoring Period	Testing Period	Report Submittal Dates
1st Quarter	In the first full calendar quarter following notification of the West Treatment Pond operating in its final configuration and notification that no further discharge of process wastewater from dewatering activities is occurring from Outfall 002	By the 10th day of the month following the testing period
Quarterly thereafter	Every calendar quarter following the previous quarter until there are a minimum of 4 quarters tested	By the 10th day of the month following the testing period
1st Annual	The first full calendar year following the 4 completed quarterly tests	By the 10th day of January following the testing period
Annually thereafter	Every calendar year following the 1st annual testing period	By the 10th day of January following the testing period

4. Whole Effluent Toxicity Limitations - Internal Outfalls 501, 502, 503, 504, and 505

   a. The Whole Effluent Toxicity limitations of Part I.A.9 are final limits beginning with the permit's effective date and lasting until completion of Stage II dewatering activities or until the permit's expiration date, whichever occurs first.

   b. WET Limits:

      (1) Acute WET limit NOAEC = 100%
      (2) Chronic WET limit NOEC ≥ 16%, equivalent to $TU_c \leq 6.25$

   c. In accordance with the schedule in Part I.E.4.f, the permittee shall conduct monthly acute and chronic toxicity testing using 24-hour flow-proportioned composite samples of final effluent from Outfalls 501, 502, 503, 504, and 505. The effluents from internal Outfalls 501, 502, 503, 504, and 505 are authorized to discharge to the Stormwater Management Pond and West Treatment Pond and through Outfalls 002, 003, 004, and/or 006.

      The acute tests shall be a 48-Hour Static Acute test using *Ceriodaphnia dubia* and a 48-Hour Static Acute test using *Pimephales promelas.* These acute tests are to be conducted using a minimum of 4 replicates, with 5 organisms each, for the control and 100% effluent. The NOAEC (No Observed Adverse Effect Concentration) shall be reported as either 100% or ‹ 100% (less than 100%). The effluent will be in compliance if the survival of the test organisms in both the control and 100% effluent exposures equals or exceeds 90%. If the survival in the effluent is less than 90% and this value is significantly different from the control survival, as determined by hypothesis testing, the NOAEC is less than 100% and the effluent is not in compliance. Tests in which control survival is less than 90% are not acceptable. A retest of a non-acceptable test must be performed during the same compliance period as the test it is replacing.

      The chronic tests shall be a Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia* and a Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas.* Each test shall be performed with a minimum of 5 dilutions, derived geometrically, in order to determine the No Observed Effect Concentration (NOEC) for survival and reproduction or growth. Results which cannot be determined (i.e. a "less than" or "zero" NOEC value) are not acceptable, and a retest requiring further dilution must be performed. Any retest of an unacceptable test must be performed during the same compliance period as the test it is replacing. Such "less than" or "zero" results must be submitted and will be regarded as evidence of effluent toxicity. The WET limit NOEC of 16% ($TU_c = 6.25$) must be represented by a dilution. Express the results as Chronic Toxicity Units (TU_c) by dividing 100/NOEC. Report the LC_{50} for each chronic test at the 48-hour point, and the IC_{25}, if calculable, with the NOEC in the required test report. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

   d. With DEQ approval, if after a minimum of four sets of tests have been reviewed, it is determined that acute tests with one of the species in Part I.E.4.a meets the criterion below, testing may be reduced to using only one species:

      Survival of ≥ 90% of the organisms of a particular species in 100% effluent in each of the tests considered.

With DEQ approval, if after a minimum of four sets of tests have been reviewed, it is determined that chronic tests with one of the species in Part I.E.4.a meets the criterion below, testing may be reduced to using only one species:
Survival of ≥ 80% of the organisms in 100% effluent in each of the tests considered, and the secondary NOEC endpoint for reproduction or growth is an NOEC = 100% effluent.

e. The permit may be modified or revoked and reissued to include pollutant-specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant-specific limits must control the toxicity of the effluent.

f. The permittee shall supply 1 copy of the of a comprehensive test report for each test type and species specified in Part I.E.4.a in accordance with the following schedule as the discharge from Stage II dewatering activities continues:

Monitoring Period	Testing Period	Report Submittal Dates
1st Month	The first calendar month following the applicability of Part I.A.9	By the 10th day of the month following the testing period
Monthly thereafter	Every calendar month following the previous month until the discharges cease	By the 10th day of the month following the testing period

F. COOLING WATER INTAKE STRUCTURE REQUIREMENTS

1. Interim §316(b) Best Technology Available (BTA) – The permittee shall implement interim Best Technology Available (BTA) measures to minimize impingement and entrainment (I&E) mortality and adverse impacts. The following interim BTA measures are to be employed throughout the term of this permit:
   a. Maintain intake velocities of less than or equal to 0.5 ft/sec at the river intake structures; and
   b. Maintain the current configuration of the two tunnels between the trash rack structure and the screen house.

2. Impingement and Entrainment Control Technology Preventative Maintenance – The O&M Manual for the permitted facility shall include a description of procedures and a regular schedule for preventative maintenance of all impingement and entrainment (I&E) control technologies and measures, and shall include a description of mitigation protocols and practices to implement should a water withdrawal event occur while an I&E technology or measure is off-line. The Operations & Maintenance (O&M) Manual shall be updated to incorporate the information required by this condition by no later than 90 days following the effective date of this permit All I&E control technologies and measures shall be maintained in effective operating condition. The permittee shall maintain documentation of maintenance and repairs of I&E control technologies and measures, including, but not limited to: the date(s) of regular maintenance, date(s) of discovery of areas in need of repair or replacement, date(s) for repairs, and date(s) the control technologies returned to full function.

3. Alternate Schedule for Submittal of 40 CFR §122.21(r) Information – The permittee shall, by no later than 270 days prior to the expiration date of this permit, submit to the DEQ-Valley Regional Office all applicable information described in 40CFR §122.21(r).

4. Visual or Remote Inspections – The permittee shall conduct visual inspections or employ remote monitoring devices during the period any cooling water intake structure is in operation. Inspections shall be conducted no less frequently than weekly to ensure that any technologies operated to comply with impingement mortality and entrainment requirements, any additional measures necessary to protect listed threatened and endangered species and designated critical habitat, and other standards for minimizing adverse environmental impact as established in this permit, are maintained and operated to function as designed.

   Inspection documentation shall include at a minimum:
   a. Date, time, and location of the inspection or remote monitoring period;
   b. The name(s) and signature(s) of the inspector(s);
   c. A description of water withdrawal volumes or rates occurring at the time of the inspection;
   d. Where available, head loss across the intake screen(s);
   e. If adverse weather conditions exist, a description of the adverse weather conditions; and
   f. Any technologies needing maintenance, repair, or replacement.

   The requirement to conduct visual or remote inspections is waived when no water is withdrawn through all cooling water intake structures during an entire inspection period. For each cooling water intake structure, the permittee shall document the date(s) when no water is withdrawn through the respective intake structure.

   When adverse weather conditions prevent visual inspections or remote monitoring from being safely conducted during a given inspection period, the visual inspection or remote monitoring requirements may be waived provided the permittee prepares documentation explaining the reasons why a visual inspection or remote monitoring could not be safely conducted. Adverse weather conditions are those that are dangerous or create inaccessibility for personnel, and may include such events as local flooding, high winds, electrical storms, or situations that otherwise make an inspection impracticable, such as drought or extended frozen conditions.
   Any deficiencies found during a visual inspection or remote monitoring event shall be corrected as soon as possible, but no later than 30 days following discovery, unless permission for a later date is granted by DEQ in writing.

   All documentation relating to visual inspections or remote monitoring, or the inability to safely conduct such monitoring due to adverse weather conditions, shall be signed and certified in accordance with Part II.K of this permit and shall be made available to DEQ personnel for review during facility inspections or no later than 30 days following receipt of a request by DEQ.

5. Annual Certification Statement Requirements – The permittee shall annually prepare a written statement certifying either: a) operations of any unit at the permitted facility that impacts cooling water withdrawals or operation of any cooling water intake structure have been substantially modified, or b) no substantial changes have occurred in the operations of any unit at the permitted facility that impacts cooling water withdrawals or operation of any cooling water intake structure.

   If substantially modified operations have occurred, the permittee must provide with the annual certification statement a summary of those changes. In addition, the permittee must submit revisions to the information required at 40 CFR §122.21(r) with the next application for reissuance of this permit.

   Certification statements shall be signed in accordance with Part II.K of this permit and submitted to the DEQ-Valley Regional Office by no later than each February 10 for the period covering the preceding calendar year.

6. Measures to protect Federally-listed Threatened or Endangered (T&E) species, designated critical habitat, and fragile species or shellfish – The permittee shall operate each cooling water intake structure and cooling system in a manner designed to minimize incidental take, reduce or remove more than minor detrimental effects to Federally-listed threatened, endangered, or fragile species and designated critical habitat, including prey base.

   The permittee shall prepare, on a calendar year basis, a report providing an assessment of the implementation progress, and/or the efficiency/effectiveness of the I&E control measures. The report shall include a compilation of all federally-listed threatened or endangered species found to have been impinged or entrained during the reporting year, including the total number and type of organisms (listed by taxa), and life stage cycle (egg, larva, juvenile, adult) impacted by injury or death. The assessments and compiled data shall be submitted to the DEQ-Valley Regional Office by no later than each February 10 for the preceding calendar year.

7. Federal Endangered Species Act Compliance – Nothing in this permit authorizes take for the purposes of a facility's compliance with the Endangered Species Act.

G. OTHER REQUIREMENTS AND SPECIAL CONDITIONS

1. 95% Capacity Reopener (Outfall 203) – A written notice and a plan of action for ensuring continued compliance with the terms of this permit shall be submitted to the DEQ-Valley Regional Office when the monthly average influent flow to the wastewater treatment facility reaches 95 percent of the design capacity authorized in this permit for each month of any three consecutive month period. The written notice shall be submitted within 30 days and the plan of action shall be received at the DEQ-Valley Regional Office no later than 90 days from the third consecutive month for which the flow reached 95 percent of the design capacity. The plan shall include the necessary steps and a prompt schedule of implementation for controlling any current or reasonably anticipated problem resulting from high influent flows. Failure to submit an adequate plan in a timely manner shall be deemed a violation of this permit.

2. Materials Handling/Storage – Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner and consistent with Best Management Practices, so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

3. Operation and Maintenance (O&M) Manual Requirement – The permittee shall maintain a current O&M Manual for the treatment works that is in accordance with Virginia Pollutant Discharge Elimination System Regulations, 9VAC25-31 and (for sewage treatment plants) Sewage Collection and Treatment Regulations, 9VAC25-790.

   The O&M Manual and subsequent revisions shall include the manual effective date and meet Part II.K.2 and Part II.K.4 Signatory Requirements of the permit. Any changes in the practices and procedures followed by the permittee shall be documented in the O&M Manual within 90 days of the effective date of the changes. The permittee shall operate the treatment works in accordance with the O&M Manual and shall make the O&M Manual available to DEQ personnel for review during facility inspections. Within 30 days of a request by DEQ, the current O&M Manual shall be submitted to the DEQ-Valley Regional Office for review and approval.

The O&M Manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

a. Permitted outfall locations and techniques to be employed in the collection, preservation, and analysis of effluent, stormwater, and sludge samples;
b. Procedures for measuring and recording the duration and volume of treated wastewater discharged;
c. Discussion of Best Management Practices, if applicable;
d. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants characterized in Part I.G.2 that will prevent these materials from reaching state waters. List type and quantity of wastes, fluids, and pollutants (e.g. chemicals) stored at this facility;
e. Discussion of treatment works design, treatment works operation, routine preventative maintenance of units within the treatment works, critical spare parts inventory and record keeping;
f. Plan for the management and/or disposal of waste solids and residues;
g. Hours of operation and staffing requirements for the plant to ensure effective operation of the treatment works and maintain permit compliance;
h. List of facility, local, and state emergency contacts; procedures for reporting and responding to any spills/overflows/treatment works upsets; and
i. Procedures for documenting compliance with the permit requirement that there shall be no discharge of floating solids or visible foam in other than trace amounts.

4. Certificate to Construct (CTC) / Certificate to Operate (CTO) Requirement (Outfall 203) – The permittee shall, in accordance with the DEQ Sewage Collection and Treatment Regulation (9VAC25-790), obtain a CTC and a CTO prior to constructing and operating the wastewater treatment works. Noncompliance with the CTC or CTO shall be deemed a violation of the permit.

5. Concept Engineering Report (CER) Requirement (Outfalls 001, 002, 003, 004, 006, 101, and 202) – Prior to constructing any wastewater treatment works, the permittee shall submit a CER to the DEQ-Valley Regional Office. DEQ approval shall be secured prior to constructing any wastewater treatment works. The permittee shall construct the wastewater treatment works in accordance with the approved CER. No later than 14 days following completion of construction of any project for which a CER has been approved, written notification shall be submitted to the DEQ-Valley Regional Office certifying that, based on an inspection of the project, construction was completed in accordance with the approved CER. The written notification shall be certified by a professional engineer licensed in the Commonwealth of Virginia or signed in accordance with Part II.K of this permit. The installed wastewater treatment works shall be operated to achieve design treatment and effluent concentrations. Approval by DEQ does not relieve the owner of the responsibility for the correction of design and/or operational deficiencies. Noncompliance with the CER shall be deemed a violation of this permit.

6. Sludge Management Plan (SMP) Requirement (Outfall 203) – The permittee shall conduct all sewage sludge use or disposal activities in accordance with the SMP approved with the reissuance of this permit. Any proposed changes in the sewage sludge use or disposal practices or procedures followed by the permittee shall be documented and submitted for DEQ approval 90 days prior to the effective date of the changes. Upon approval, the SMP becomes an enforceable part of the permit. This permit may be modified or, alternatively, revoked and reissued to incorporate limitations/conditions necessitated by substantive changes in sewage sludge use or disposal practices.

7. Reliability Class (Outfall 203) – The permitted treatment works shall meet Reliability Class II.

8. Debris collected on the intake trash racks (as opposed to the traveling screen backwash) shall not be returned to the waterway.

9. Polychlorinated Biphenyl – There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. Compliance with this requirement will be determined using EPA Method 608 (as referenced in 40 CFR Part 136).

10. Neither free nor total residual chlorine may be discharged via Outfall 001 from any single generating unit for more than two hours per day unless the permittee demonstrates to DEQ that discharge for more than two hours is required for macroinvertebrate control. Simultaneous multi-unit chlorination is permitted.

    The appropriate measures shall include, but not be limited to, the adjustment of the dosage of the chlorine additive. If the permittee determines that the analytical instrumentation has failed, and a different analytical method is required, the permittee must notify the DEQ-Valley Regional Office of the change in instrumentation.

11. Oil Storage Groundwater Monitoring Reopener – As this facility currently manages ground water in accordance with 9VAC25-90-10 et seq., Oil Discharge Contingency Plans and Administration Fees for Approval, this permit does not presently impose groundwater monitoring requirements in conjunction with the oil storage facilities. However, this permit may be modified or, alternatively, revoked and reissued to incorporate groundwater monitoring not required by the ODCP regulation.

12. Thermal Mixing Zone –The permittee shall comply with the Water Quality Standards for temperature outside the approved thermal mixing zone. The approved mixing zone is defined as 40% of the width of the James River, as measured from the north bank extending from the John H. Cocke Memorial Bridge downstream to Spicer's Island, approximately 5 ½ miles downstream of the cooling water discharge (Outfall 001).

13. Instream Monitoring – Within 60 days of the effective date of the permit, the permittee shall submit to the DEQ-Valley Regional Office for approval a revised Thermal Mixing Zone Monitoring Plan. Monitoring of the thermal mixing zone shall be conducted twice per year in accordance with the approved monitoring plan. The monitoring shall be conducted as near to full plant operating conditions as reasonably possible and the monitoring results shall be presented as a temperature plot with three degree centigrade isotherms. Monitoring and reporting shall be conducted in accordance with the following schedule:

Testing Period	Report Submittal Dates
February 2016	May 31, 2016
July 2016	October 31, 2016
February 2017	May 31, 2017
July 2017	October 31, 2017
February 2018	May 31, 2018
July 2018	October 31, 2018
February 2019	May 31, 2019
July 2019	October 31, 2019
February 2020	May 31, 2020
July 2020	July 31, 2020

14. Water Quality Criteria Monitoring – The permittee shall monitor the effluent at Outfall 001 (Once-Through Condenser Cooling Water) for the substances noted in Attachment A of the permit and at Outfall 002 (West Treatment Pond) for the substances noted in Attachment B of this permit according to the indicated analysis number, quantification level, sample type and frequency. Monitoring for Outfall 001 shall be initiated after the start of the third year following the permit's effective date. Using Attachment A as the reporting form, the data shall be submitted with the next permit reissuance application which is due at least 180 days prior to the expiration date of this permit. Monitoring for Outfall 002 shall be initiated no later than one year following the West Treatment Pond beginning operation in its final configuration. When applicable, using Attachment B as the reporting form, the data shall be submitted with the next permit reissuance application which is due at least 180 days prior to the expiration date of this permit. Monitoring and analyses shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved methods. Methods other than those specified in Attachments A and B may be used with prior notification to and approval from DEQ. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachments A and B.

15. Treatment Works Closure Plan – If the permittee plans an expansion or upgrade to replace the existing treatment works, or if the facility is permanently closed, the permittee shall submit to the DEQ-Valley Regional Office a closure plan for the existing treatment works. The plan shall address the following information as a minimum: Verification of elimination of sources and/or alternate treatment scheme; treatment, removal and final disposition of residual wastewater and solids; removal/demolition/disposal of structures, equipment, piping and appurtenances; site grading, and erosion and sediment control; restoration of site vegetation; access control; fill materials; and proposed land use (post-closure) of the site. The plan should contain proposed dates for beginning and completion of the work. The plan must be approved by the DEQ prior to implementation. Once approved, the plan shall become an enforceable part of this permit and closure shall be implemented in accordance with the approved plan. The permittee shall sample once for each foot of drawdown, and, when the discharge no longer meets permit limits, the discharge shall cease and the rest of the lagoon contents shall be pumped and hauled to another, permitted facility for treatment and disposal. No later than 14 days following closure completion, the permittee shall submit to the DEQ-Valley Regional Office written notification of the closure completion date and a certification of closure in accordance with the approved plan.

16. Reopeners – This permit may be modified or, alternatively, revoked and reissued:

    a. If any approved waste load allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes waste load allocations, limits or conditions on the facility that are not consistent with the permit requirements; or
    b. To include new or alternative nutrient limitations and/or monitoring requirements, should:
        (1) The State Water Control Board adopt nutrient standards for the water body receiving the discharge, or
        (2) A future water quality regulation or statute require new or alternative nutrient control; or
    c. If any applicable standard for sewage sludge use or disposal promulgated under Section 405(d) of the Clean Water Act is more stringent than any requirements for sludge use or disposal in this permit, or controls a pollutant or practice not limited in this permit.

17. Notification Levels – The permittee shall notify the DEQ-Valley Regional Office as soon as they know or have reason to believe:

    a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
       (1) 100 µg/L;
       (2) 200 µg/L for acrolein and acrylonitrile; 500 µg/L for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and 1 mg/L for antimony;
       (3) Five times the maximum concentration value reported for that pollutant in the permit application; or
       (4) The level established by the Board.
    b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
       (1) 500 µg/L;
       (2) 1 mg/L for antimony;
       (3) Ten times the maximum concentration value reported for that pollutant in the permit application; or
       (4) The level established by the Board.

18. Ash Pond Closure Stormwater Management – Best management practices (BMPs), structural and/or non-structural, shall be utilized by the permittee to minimize the impact of ash pond closure activities on stormwater quality. Ash pond closure activities may include, but are not limited to, the process of ash movement for off-site disposal, ash loading and unloading, any activity associated with the storage of ash prior to transport off-site, and vehicle tracking associated with the movement of ash.

    The facility shall maintain a Stormwater Pollution Prevention Plan (SWPPP) that includes a description of the BMPs being implemented and a regular schedule for preventive maintenance of all BMPs where appropriate. All structural BMPs identified in the SWPPP shall be maintained in effective operating condition and shall be inspected for structural integrity and operational efficiency once per week during ash pond closure activities. Results of the weekly inspections and actions needed and performed in response to the weekly inspections shall be maintained with the SWPPP.

19. Metal Cleaning Waste Treatment Basin Decanting/Dewatering – The permittee shall notify the DEQ-Valley Regional Office upon commencing operations to draw down the water elevation in the Metal Cleaning Waste Treatment Basin in preparation of basin closure. Water decanted by gravity from the basin surface shall be released at a controlled rate not to exceed one foot of basin surface elevation per day to minimize the discharge of any solids. An effluent grab sample for Total Suspended Solids (TSS) shall be taken and analyzed daily once the draw down process commences and shall continue until the limits in Part I.A.9 become effective. Upon either (a) obtaining a TSS sample greater than or equal to 90 mg/L or a rolling 7-day average TSS concentration greater than or equal to 30 mg/L (b) altering the surface of the settled material through trenching, boring, or other mechanical means to facilitate dewatering, or (c) using an on-site treatment unit to ensure compliance with the TSS values in (a) above, the monitoring requirements and effluent limits in Part I.A.9 of this permit shall become effective and remain effective until Outfall 202 is retired. The permittee shall provide written notification to the DEQ-Valley Regional Office no later than 24 hours following meeting the first occurrence of any of the provisions (a) through (c) of this special condition.

20. The permittee shall notify the DEQ-Valley Regional Office in writing of the following milestones within 7 days of the milestone being met:

    a. Date when Outfall 003 is retired;
    b. Date when Outfall 004 is retired;
    c. Date when the West Treatment Pond is put into service in its final configuration;
    d. Date when the Stormwater Management Pond is routed to the lined West Treatment Pond;
    e. Date when Outfall 007 is put into service;
    f. Date when Outfall 008 is put into service;
    g. Date when the Metal Cleaning Waste Treatment Basin is closed;
    h. Date when Outfall 006 no longer receives process wastewater from dewatering activities; and
    i. Date when Outfall 002 no longer receives process wastewater from dewatering activities.

21. Cooling Water and Boiler Additives – The use of any chemical additives not identified in the application, except chlorine, without prior approval is prohibited under this permit. Prior approval shall be obtained from the DEQ before any changes are made to the chemical and/or nonchemical treatment technology employed in the cooling water and/or boiler systems. Requests for approval of the change shall be made in writing and shall include the following information:

    a. Describe the chemical and/or nonchemical treatment to be employed and its purpose; if chemical additives are used, provide the information in Part I.G.22 b-g;
    b. Provide the name and manufacturer of each additive used;
    c. Provide a list of active ingredients and percentage of composition;
    d. Give the proposed schedule and quantity of chemical usage, and provide either an engineering analysis, or a technical evaluation of the active ingredients, to determine the concentration in the discharge;
    e. Attach available aquatic toxicity information for each additive proposed for use;
    f. Attach any other information such as product or constituent degradation, fate, transport, synergies, bioavailability, etc., that will aid the board with the toxicity evaluation for the discharge; and
    g. An evaluation of the anticipated effects of the chemical additives on wastewater treatment and effluent quality.

H. STORMWATER MANAGEMENT CONDITIONS

1. General Stormwater Special Conditions

    a. <u>Sample Type</u>
    For all stormwater monitoring required in Part I.A or other applicable sections of this permit, a minimum of one grab sample shall be taken. Unless otherwise specified, all such samples shall be collected from the discharge resulting from a storm event that occurs at least 72 hours from the previously measurable storm event (a "measurable storm event" is defined as a storm event that results in an actual discharge from the site). The required 72-hour storm event interval is waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken during the first three hours of the discharge, and the permittee shall submit with the monitoring report a description of why a grab sample during the first 30 minutes was impracticable. If stormwater discharges associated with industrial activity commingle with process or non-process water, then where practicable permittees must attempt to sample the stormwater discharge before it mixes with the non-stormwater discharge.

b. Recording of Results
For each measurement or sample taken pursuant to the storm event monitoring requirements of this permit, the permittee shall record and report with the Discharge Monitoring Reports (DMRs) the following information:
(1) The date and duration (in hours) of the storm event(s) sampled;
(2) The rainfall total (in inches) of the storm event which generated the sampled discharge; and
(3) The duration between the storm event sampled and the end of the previous measurable storm event.

c. Sampling Waiver
When a permittee is unable to collect stormwater samples required in Part I.A or other applicable sections of this permit within a specified sampling period due to adverse climatic conditions, the permittee shall collect a substitute sample from a separate qualifying event in the next period and submit these data along with the data for the routine sample in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

d. Representative outfalls – substantially identical discharges
If the facility has two or more outfalls that discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and stormwater management practices occurring within the drainage areas of the outfalls, the permittee may conduct monitoring on the effluent of just one of the outfalls and report that the observations also apply to the substantially identical outfall(s). The substantially identical outfall monitoring provisions apply to quarterly visual monitoring, benchmark monitoring and impaired waters monitoring. The substantially identical outfall monitoring provisions are not available for numeric effluent limits monitoring.
The permittee shall include the following information in the SWPPP:
(1) The locations of the outfalls;
(2) Why the outfalls are expected to discharge substantially identical effluents, including evaluation of monitoring data, where available; and
(3) Estimates of the size of the drainage area (in square feet) for each of the outfalls.

e. Quarterly Visual Examination of Stormwater Quality
(1) The permittee must perform and document a quarterly visual examination of a stormwater discharge associated with industrial activity from each outfall, except discharges exempted below. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December. The visual examination shall be made during normal working hours. If no storm event resulted in runoff from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no runoff occurred. The documentation must be signed and certified in accordance with Part II.K of this permit.
(2) Visual examinations must be made of samples collected in accordance with Part I.H.1.a (Sample Type). The examination must document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution. The examination must be conducted in a well-lit area. No analytical tests are required to be performed on the samples.
(3) The visual examination reports must be maintained on-site with the Stormwater Pollution Prevention Plan (SWPPP). The report must include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the stormwater discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution), and probable sources of any observed stormwater contamination.

f. Authorized Non-Stormwater Discharges

(1) The following non-stormwater discharges are authorized by this permit:

(a) Discharges from fire fighting activities;
(b) Fire hydrant flushings;
(c) Potable water including water line flushings;
(d) Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
(e) Irrigation drainage;
(f) Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
(g) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
(h) Routine external building washdown which does not use detergents;
(i) Uncontaminated groundwater or spring water;
(j) Foundation or footing drains where flows are not contaminated with process materials; and
(k) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains).

(2) All other non-stormwater discharges are not authorized and shall either be eliminated or covered under a separate VPDES permit.

g. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

The discharge of hazardous substances or oil in the stormwater discharge(s) from the facility shall be prevented or minimized in accordance with the SWPPP for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 or § 62.1-44.34:19 of the Code of Virginia. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period:

(1) The permittee is required to notify the Department in accordance with the requirements of Part II.G as soon as he or she has knowledge of the discharge;
(2) Where a release enters a municipal separate storm sewer system (MS4), the permittee shall also notify the owner or the MS4; and
(3) The SWPPP required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

h. Water Quality Protection

The discharges authorized by this permit shall be controlled as necessary to meet applicable water quality standards. DEQ expects that compliance with the conditions in this permit will control discharges as necessary to meet applicable water quality standards.

i. Corrective actions

(1) Data exceeding benchmark concentration values, if applicable

(a) If the benchmark monitoring result exceeds the benchmark concentration value for that parameter, the permittee shall review the SWPPP and modify it as necessary to address any deficiencies that caused the exceedance. Revisions to the SWPPP shall be completed within 30 days after an exceedance is discovered. When control measures need to be modified or added (distinct from regular preventive maintenance of existing control measures described in Part I.H.2.c (Maintenance), implementation shall be completed before the next anticipated storm event if possible, but no later than 60 days after the exceedance is discovered, or as otherwise provided or approved by the DEQ-Valley Regional Office. In cases where

construction is necessary to implement control measures, the permittee shall include a schedule in the SWPPP that provides for the completion of the control measures as expeditiously as practicable, but no later than three years after the exceedance is discovered. Where a construction compliance schedule is included in the SWPPP, the plan shall include appropriate nonstructural and temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure. Any control measure modifications shall be documented and dated, and retained with the SWPPP, along with the amount of time taken to modify the applicable control measure or implement additional control measures.

(b) Natural background pollutant levels. If the concentration of a pollutant exceeds a benchmark concentration value, and the permittee determines that exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background, corrective action is not required provided that:

(i) The concentration of the benchmark monitoring result is less than or equal to the concentration of that pollutant in the natural background;

(ii) The permittee documents and maintains with the SWPPP the supporting rationale for concluding that benchmark exceedances are in fact attributable solely to natural background pollutant levels. The supporting rationale shall include any data previously collected by the facility or others (including literature studies) that describe the levels of natural background pollutants in the facility's stormwater discharges; and

(iii) The permittee notifies the DEQ-Valley Regional Office on the DMR that the benchmark exceedances are attributable solely to natural background pollutant levels.
Natural background pollutants include those substances that are naturally occurring in soils or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity on the facility's site, or pollutants in run-on from neighboring sources which are not naturally occurring.

(2) Corrective actions

The permittee shall take corrective action whenever:

(a) Routine facility inspections, comprehensive site compliance evaluations, inspections by local, state or federal officials, or any other process, observation or event result in a determination that modifications to the stormwater control measures are necessary to meet the permit requirements; or

(b) There is any exceedance of an effluent limitation (including coal pile runoff), or TMDL wasteload allocation; or

(c) The DEQ-Valley Regional Office determines, or the permittee becomes aware, that the stormwater control measures are not stringent enough for the discharge to meet applicable water quality standards.

The permittee shall review the SWPPP and modify it as necessary to address any deficiencies. Revisions to the SWPPP shall be completed within 30 days following the discovery of the deficiency. When control measures need to be modified or added (distinct from regular preventive maintenance of existing control measures described in Part I.H.2.c (Maintenance), implementation shall be completed before the next anticipated storm event if possible, but no later than 60 days after the deficiency is discovered, or as otherwise provided or approved by the DEQ-Valley Regional Office. In cases where construction is necessary to implement control measures, the permittee shall include a schedule in the SWPPP that provides for the completion of the control measures as expeditiously as practicable, but no later than three years after the deficiency is discovered. Where a construction compliance schedule is included in the SWPPP, the plan shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure. The amount of time taken to modify a control measure or implement additional control measures shall be documented in the SWPPP.

Any corrective actions taken shall be documented and retained with the SWPPP. Reports of corrective actions shall be signed in accordance with Part II.K.

(3) Follow-up reporting.
If at any time monitoring results indicate that discharges from the facility exceed an effluent limitation or a TMDL wasteload allocation, or the DEQ-Valley Regional Office determines that discharges from the facility are causing or contributing to an exceedance of a water quality standard, immediate steps shall be taken to eliminate the exceedances in accordance with the above Part I.H.1.i.(2) (Corrective actions). Within 30 calendar days of implementing the relevant corrective action(s) an exceedance report shall be submitted to the DEQ-Valley Regional Office. The following information shall be included in the report: permit number; facility name, address and location; receiving water; monitoring data from this event; an explanation of the situation; description of what has been done and the intended actions (should the corrective actions not yet be complete) to further reduce pollutants in the discharge; and an appropriate contact name and phone number.

j. Additional Requirements for Salt Storage
Storage piles of salt or piles containing salt used for deicing or other commercial or industrial purposes shall be enclosed or covered to prevent exposure to precipitation. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. All salt storage piles shall be located on an impervious surface. All runoff from the pile, and/or runoff that comes in contact with salt, including under drain systems, shall be collected and contained within a bermed basin lined with concrete or other impermeable materials., or within an underground storage tank(s), or within an above ground storage tank(s), or disposed of through a sanitary sewer (with the permission of the treatment facility). A combination of any or all of these methods may be used. In no case shall salt contaminated stormwater be allowed to discharge directly to the ground or to state waters.

2. Stormwater Pollution Prevention Plan

A SWPPP for the facility was required to be developed and implemented under the previous permit. The existing SWPPP shall be reviewed and modified, as appropriate, to conform to the requirements of this section. Permittees shall implement the provisions of the SWPPP as a condition of this permit.
The SWPPP requirements of this permit may be fulfilled, in part, by incorporating by reference other plans or documents such as a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act, or best management practices (BMP) programs otherwise required for the facility, provided that the incorporated plan meets or exceeds the plan requirements of Part I.H.2.b (Contents of the Plan). All plans incorporated by reference into the SWPPP become enforceable under this permit. If a plan incorporated by reference does not contain all of the required elements of the SWPPP of Part I.H.2.b the permittee shall develop the missing SWPPP elements and include them in the required plan.

a. Deadlines for Plan Preparation and Compliance

(1) The facility shall review and update the existing plan as expeditiously as practicable, but no later than 90 days from the effective date of the permit. Verification of compliance shall be provided, in writing, within 10 days of the above deadline.

(2) Measures That Require Construction
In cases where construction is necessary to implement measures required by the plan, the plan shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of this permit. Where a construction compliance schedule is included in the plan, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.

b. Contents of the Plan

The contents of the SWPPP shall comply with the requirements listed below and those in Part I.H.3. The plan shall include, at a minimum, the following items:

(1) Pollution Prevention Team

The plan shall identify the staff individuals by name or title who comprise the facility's stormwater pollution prevention team. The pollution prevention team is responsible for assisting the facility or plant manager in developing, implementing, maintaining, revising, and ensuring compliance with the facility's SWPPP. Specific responsibilities of each staff individual on the team shall be identified and listed.

(2) Site Description

The SWPPP shall include the following:

(a) Activities at the Facility

A description of the nature of the industrial activities at the facility.

(b) General Location Map

A general location map (e.g., USGS quadrangle or other map) with enough detail to identify the location of the facility and the receiving waters within one mile of the facility.

(c) Site Map

A site map identifying the following:

(i) The boundaries of the property and the size of the property (in acres);

(ii) The location and extent of significant structures and impervious surfaces (roofs, paved areas and other impervious areas);

(iii) Locations of all stormwater conveyances including ditches, pipes, swales, and inlets, and the directions of stormwater flow (use arrows to show which ways stormwater will flow);

(iv) Locations of all existing structural and source control measures, including BMPs;

(v) Locations of all surface water bodies, including wetlands;

(vi) Locations of potential pollutant sources identified under Part I.H.2.b.(3) (Summary of potential pollutant sources);

(vii) Locations where significant spills or leaks identified under Part I.H.2.b.(4) (Spills and leaks) have occurred;

(viii) Locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and cleaning areas; loading and unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; processing and storage areas; access roads, rail cars and tracks; transfer areas for substances in bulk; and machinery;

(ix) Locations of stormwater outfalls and an approximate outline of the area draining to each outfall, and location of municipal storm sewer systems, if the stormwater from the facility discharges to them;

(x) Location and description of all non-stormwater discharges;

(xi) Location of any storage piles containing salt used for deicing or other commercial or industrial purposes; and

(xii) Locations and sources of runon to the site from adjacent property where the runon contains significant quantities of pollutants; and

(xiii) Locations of all stormwater monitoring points.

(d) Receiving Waters and Wetlands

The name of all surface waters receiving discharges from the site, including intermittent streams, dry sloughs, and arroyos. Provide a description of wetland sites that may receive discharges from the facility. If the facility discharges through a municipal separate storm sewer system (MS4), identify the MS4 operator, and the receiving water to which the MS4 discharges.

(3) Summary of Potential Pollutant Sources
The plan shall identify each separate area at the facility where industrial materials or activities are exposed to stormwater. Industrial materials or activities include, but are not limited to: material handling equipment or activities, industrial machinery, raw materials, industrial production and processes, intermediate products, byproducts, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For each separate area identified, the description shall include:
(a) Activities in the area
A list of the industrial activities exposed to stormwater (e.g., material storage, equipment fueling and cleaning, cutting steel beams);
(b) Pollutants
A list of the pollutant(s) or pollutant constituents (e.g., crankcase oil-zinc, sulfuric acid, cleaning solvents, etc.) associated with each industrial activity. The pollutant list shall include all significant materials handled, treated, stored or disposed that have been exposed to stormwater in the three years prior to the date this SWPPP was prepared or amended. The list shall include any hazardous substances or oil at the facility.

(4) Spills and Leaks
The SWPPP shall clearly identify areas where potential spills and leaks that can contribute pollutants to stormwater discharges can occur and their corresponding outfalls. The plan shall include a list of significant spills and leaks of toxic or hazardous pollutants that actually occurred at exposed areas, or that drained to a stormwater conveyance during the three-year period prior to the date this SWPPP was prepared or amended. The list shall be updated if significant spills or leaks occur in exposed areas of the facility during the term of the permit. Significant spills and leaks include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.

(5) Sampling Data
The plan shall include a summary of existing stormwater discharge sampling data taken at the facility. The summary shall include, at a minimum, any data collected during the previous permit term.

(6) Stormwater Controls
(a) Control measures shall be implemented for all the areas identified in Part I.H.2 b.(3) (Summary of Potential Pollutant Sources) to prevent or control pollutants in stormwater discharges from the facility. Regulated stormwater discharges from the facility include stormwater runon that commingles with stormwater discharges associated with industrial activity at the facility. The SWPPP shall describe the type, location and implementation of all control measures for each area where industrial materials or activities are exposed to stormwater. Selection of control measures shall take into consideration:
(i) That preventing stormwater from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from stormwater;
(ii) Control measures generally shall be used in combination with each other for most effective water quality protection;
(iii) Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures;
(iv) That minimizing impervious areas at the facility can reduce runoff and improve groundwater recharge and stream base flows in local streams (however, care must be taken to avoid ground water contamination);
(v) Flow attenuation by use of open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows;
(vi) Conservation or restoration of riparian buffers will help protect streams from stormwater runoff and improve water quality; and
(vii) Treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.

(b) Nonnumeric technology-based effluent limits.
The permittee shall implement the following types of control measures to prevent and control pollutants in the stormwater discharges from the facility, unless it can be demonstrated and documented that such controls are not relevant to the discharges (e.g., there are no storage piles containing salt).

(i) Good Housekeeping
The permittee shall keep clean all exposed areas of the facility that are potential sources of pollutants to stormwater discharges. Typical problem areas include areas around trash containers, storage areas, loading docks, and vehicle fueling and maintenance areas. The plan shall include a schedule for regular pickup and disposal of waste materials, along with routine inspections for leaks and conditions of drums, tanks and containers.

(ii) Eliminating and Minimizing Exposure
To the extent practicable, manufacturing, processing and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) shall be located inside, or protected by a storm-resistant covering to prevent exposure to rain, snow, snowmelt, and runoff. Note: Eliminating exposure at all industrial areas may make the facility eligible for the "Conditional Exclusion for No Exposure" provision of 9VAC25-31-120.E, thereby eliminating the need to have a permit.

(iii) Preventive Maintenance
The permittee shall have a preventive maintenance program that includes regular inspection, testing, maintenance and repairing of all industrial equipment and systems to avoid situations that could result in leaks, spills and other releases of pollutants in stormwater discharge from the facility. This program is in addition to the specific control measure maintenance required under Part I.H 2.c (Maintenance).

(iv) Spill Prevention and Response Procedures
The plan shall describe the procedures that will be followed for preventing and responding to spills and leaks, including:

(A) Preventive measures, such as barriers between material storage and traffic areas, secondary containment provisions, and procedures for material storage and handling;

(B) Response procedures, including notification of appropriate facility personnel, emergency agencies, and regulatory agencies, and procedures for stopping, containing and cleaning up spills. Measures for cleaning up hazardous material spills or leaks shall be consistent with applicable RCRA regulations at 40 CFR Part 264 and 40 CFR Part 265. Employees who may cause, detect or respond to a spill or leak shall be trained in these procedures and have necessary spill response equipment available. If possible, one of these individuals shall be a member of the Pollution Prevention Team;

(C) Procedures for plainly labeling containers (e.g., “used Oil,” “Spent Solvents,” “Fertilizers and Pesticides,” etc.) that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur; and

(D) Contact information for individuals and agencies that must be notified in the event of a spill shall be included in the SWPPP, and in other locations where it will be readily available.

(v) Routine Facility Inspections
Facility personnel who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility, and who can also evaluate the effectiveness of control measures shall regularly inspect all areas of the facility where industrial materials or activities are exposed to stormwater. These inspections are in addition to, or as part of, the comprehensive site evaluation required under Part I.H.2.d. At least one member of the Pollution Prevention Team shall participate in the routine facility inspections.

The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit or written approval is received from the Department for less frequent intervals. At least once each calendar year, the routine facility inspection must be conducted during a period when a stormwater discharge is occurring.

Any deficiencies in the implementation of the SWPPP that are found shall be corrected as soon as practicable, but not later than within 30 days of the inspection, unless permission for a later date is granted in writing by the Director. The results of the inspections shall be documented in the SWPPP, and shall include at a minimum:

(A) The inspection date and time;
(B) The name and signature of the inspector(s);
(C) Weather information and a description of any discharges occurring at the time of the inspection;
(D) Any previously unidentified discharges of pollutants from the site;
(E) Any control measures needing maintenance or repairs;
(F) Any failed control measures that need replacement;
(G) Any incidents of noncompliance observed; and
(H) Any additional control measures needed to comply with the permit requirements.

(vi) Employee Training

The permittee shall implement a stormwater employee training program for the facility. The SWPPP shall include a schedule for all types of necessary training, and shall document all training sessions and the employees who received the training. Training shall be provided for all employees who work in areas where industrial materials or activities are exposed to stormwater, and for employees who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel, etc.). The training shall cover the components and goals of the SWPPP, and include such topics as spill response, good housekeeping, material management practices, control measure operation and maintenance, etc. The SWPPP shall include a summary of any training performed.

c. Maintenance

The SWPPP shall include a description of procedures and a regular schedule for preventive maintenance of all control measures, and shall include a description of the back-up practices that are in place should a runoff event occur while a control measure is off-line. The effectiveness of nonstructural control measure shall also be maintained by appropriate means (e.g., spill response supplies available and personnel trained, etc.).

All control measures identified in the SWPPP shall be maintained in effective operating condition and shall be observed at least annually during active operation (i.e., during a stormwater runoff event) to ensure that they are functioning correctly. Where discharge locations are inaccessible, nearby downstream locations shall be observed. The observations shall be documented in the SWPPP.

If site inspections required by Part I.H.2.b.(6)(b)(v) (Routine Facility Inspections) or Part I.H.2.d (Comprehensive Site Compliance Evaluation) identify control measures that are not operating effectively, repairs or maintenance shall be performed before the next anticipated storm event. If maintenance prior to the next anticipated storm event is not possible, maintenance shall be scheduled and accomplished as soon as practicable. In the interim, back-up measures shall be employed and documented in the SWPPP until repairs or maintenance is complete. Documentation shall be kept with the SWPPP of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair or replacement, date(s) for repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance or repair schedules.

d. Comprehensive Site Compliance Evaluation

The permittee shall conduct comprehensive site compliance evaluations at least once each calendar year. The evaluations shall be done by qualified personnel who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility, and who can also evaluate the effectiveness of control measures. The personnel conducting the evaluations may be either facility employees or outside personnel hired by the facility.

(1) Scope of the Compliance Evaluation

Evaluations shall include all areas where industrial materials or activities are exposed to stormwater, as identified in Part I H.2.b.(3) (Summary of potential pollutant sources). The personnel shall evaluate:

(a) Industrial materials, residue or trash that may have or could come into contact with stormwater;

(b) Leaks or spills from industrial equipment, drums, barrels, tanks or other containers that have occurred within the past three years;

(c) Off-site tracking of industrial or waste materials or sediment where vehicles enter or exit the site;

(d) Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas;

(e) Evidence of, or the potential for, pollutants entering the drainage system;

(f) Evidence of pollutants discharging to surface waters at all facility outfalls, and the condition of and around the outfall, including flow dissipation measures to prevent scouring;

(g) Review of stormwater related training performed, inspections completed, maintenance performed, quarterly visual examinations, and effective operation of control measures, including BMPs;

(h) Results of both visual and any analytical monitoring done during the past year shall be taken into consideration during the evaluation.

(2) Based on the results of the evaluation, the SWPPP shall be modified as necessary (e.g., show additional controls on the map required by Part I.H.2.b.(2)(c); revise the description of controls required by Part I.H.2.b.(6) to include additional or modified control measures designed to correct problems identified). Revisions to the SWPPP shall be completed within 30 days following the evaluation, unless permission for a later date is granted in writing by the Director. If existing control measures need to be modified or if additional control measures are necessary, implementation shall be completed before the next anticipated storm event, if practicable, but not more than 60 days after completion of the comprehensive site evaluation, unless permission for a later date is granted in writing by the Department;

(3) Compliance Evaluation Report

A report shall be written summarizing the scope of the evaluation, name(s) of personnel making the evaluation, the date of the evaluation, and all observations relating to the implementation of the SWPPP, including elements stipulated in Part I.H.2 d.(1) (a) through (h) above. Observations shall include such things as: the location(s) of discharges of pollutants from the site; location(s) of previously unidentified sources of pollutants; location(s) of control measures that need to be maintained or repaired; location(s) of failed control measures that need replacement; and location(s) where additional control measures are needed. The report shall identify any incidents of noncompliance that were observed. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the SWPPP and this permit. The report shall be signed in accordance with Part II.K and maintained with the SWPPP.

(4) Where compliance evaluation schedules overlap with routine inspections required under Part I H.2.b.(6)(b)(v) (Routine facility inspections), the annual compliance evaluation may be used as one of the routine inspections.

e. Signature and Plan Review

(1) Signature and location

The SWPPP, including revisions to the SWPPP to document any corrective actions taken as required by Part I.H.1.(i) (Corrective Actions), shall be signed in accordance with Part II.K, dated, and retained on-site at the facility covered by this permit in accordance with Part II.B.2. All other changes to the SWPPP, and other permit compliance documentation, shall be signed and dated by the person preparing the change or documentation.

(2) Availability

The permittee shall retain a copy of the current SWPPP required by this permit at the facility, and it shall be immediately available to the Department, EPA or the operator of an MS4 receiving discharges from the site at the time of an onsite inspection or upon request.

(3) Required Modifications.

The permittee shall modify the SWPPP whenever necessary to address any corrective actions required by Part I.H.1.i.(1)(Data exceeding benchmark concentration values) or Part I H.1.i (Corrective actions). Changes to the SWPPP shall be made in accordance with the corrective action deadlines in Part I.H.1.(i)(1) and Part I.H.1(i), and shall be signed and dated in accordance with Part II.K (Signatory Requirements).

The Director may notify the permittee at any time that the SWPPP, control measures, or other components of the facility's stormwater program do not meet one or more of the requirements of this permit. The notification shall identify specific provisions of the permit that are not being met, and may include required modifications to the stormwater program, additional monitoring requirements, and special reporting requirements. The permittee shall make any required changes to the SWPPP within 60 days of receipt of such notification, unless permission for a later date is granted in writing by the Director, and shall submit a written certification to the Director that the requested changes have been made.

f. Maintaining an Updated SWPPP

(1) The permittee shall review and amend the SWPPP as appropriate whenever:

(a) There is construction or a change in design, operation, or maintenance at the facility that has a significant effect on the discharge, or the potential for the discharge, of pollutants from the facility;

(b) Routine inspections or compliance evaluations determine that there are deficiencies in the control measures, including BMPs;

(c) Inspections by local, state, or federal officials determine that modifications to the SWPPP are necessary;

(d) There is a spill, leak or other release at the facility; or

(e) There is an unauthorized discharge from the facility.

(2) SWPPP modifications shall be made within 30 calendar days after discovery, observation or event requiring a SWPPP modification. Implementation of new or modified control measures (distinct from regular preventive maintenance of existing control measures described in Part I.H.2.b.(6)(b)(iii) (Preventative Maintenance) shall be initiated before the next storm event if possible, but no later than 60 days after discovery, or as otherwise provided or approved by the Director. The amount of time taken to modify a control measure or implement additional control measures shall be documented in the SWPPP.

(3) If the SWPPP modification is based on a release or unauthorized discharge, include a description and date of the release, the circumstances leading to the release, actions taken in response to the release, and measures to prevent the recurrence of such releases. Unauthorized releases and discharges are subject to the reporting requirements of Part II.G of this permit.

3. Sector-Specific SWPPP Requirements
In addition to the requirements of Part I.H.2, the SWPPP shall include, at a minimum, the following items:

a. Site Description
Site Map. The site map shall identify the locations of any of the following activities or sources that may be exposed to precipitation or surface runoff: storage tanks, scrap yards, general refuse areas; short and long term storage of general materials (including, but not limited to: supplies, construction materials, plant equipment, oils, fuels, used and unused solvents, cleaning materials, paint, water treatment chemicals, fertilizer, and pesticides); landfills; construction sites; and stock pile areas (such as coal or limestone piles).

b. Stormwater Controls
(1) Good Housekeeping Measures
(a) Fugitive Dust Emissions. The permittee shall describe and implement measures that prevent or minimize fugitive dust emissions from coal and ash handling areas. The permittee shall minimize off-site tracking of coal dust and ash. Control measures to consider include installing specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.
(b) Delivery Vehicles. The plan shall describe measures that prevent or minimize contamination of stormwater runoff from delivery vehicles arriving on the plant site. At a minimum the permittee shall consider the following:
(i) Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and
(ii) Develop procedures to deal with leakage/spillage from vehicles or containers.
(c) Fuel Oil Unloading Areas. The plan shall describe measures that prevent or minimize contamination of precipitation or surface runoff from fuel oil unloading areas. At a minimum the permittee shall consider using the following measures, or an equivalent:
(i) Use of containment curbs in unloading areas;
(ii) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks and spills are immediately contained and cleaned up; and
(iii) Use of spill and overflow protection (e.g., drip pans, drip diapers, or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).
(d) Chemical Loading/Unloading Areas. The permittee shall describe and implement measures that prevent or minimize the contamination of precipitation or surface runoff from chemical loading and unloading areas. At a minimum the permittee shall consider using the following measures (or their equivalents):
(i) Use of containment curbs at chemical loading and unloading areas to contain spills;
(ii) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks or spills are immediately contained and cleaned up; and
(iii) Covering chemical loading and unloading areas, and storing chemicals indoors.
(e) Miscellaneous Loading and Unloading Areas. The permittee shall describe and implement measures that prevent or minimize the contamination of stormwater runoff from loading and unloading areas. The permittee shall consider the following, at a minimum (or their equivalents):
(i) Covering the loading area;
(ii) Grading, berming, or curbing around the loading area to divert run-on; or
(iii) Locating the loading and unloading equipment and vehicles so that leaks are contained in existing containment and flow diversion systems.

(f) Liquid Storage Tanks. The permittee shall describe and implement measures that prevent or minimize contamination of stormwater runoff from aboveground liquid storage tanks. At a minimum the permittee shall consider employing the following measures (or their equivalents):
(i) Use of protective guards around tanks;
(ii) Use of containment curbs;
(ii) Use of spill and overflow protection; and
(iv) Use of dry cleanup methods.

(g) Large Bulk Fuel Storage Tanks. The permittee shall describe and implement measures that prevent or minimize contamination of stormwater runoff from large bulk fuel storage tanks. At a minimum the permittee shall consider employing containment berms (or its equivalent). The permittee shall also comply with applicable state and federal laws, including Spill Prevention Control and Countermeasures (SPCC).

(h) Spill Reduction Measures. The permittee shall describe and implement measures to reduce the potential for an oil or chemical spill, or reference the appropriate section of their SPCC plan. The structural integrity of all aboveground tanks, pipelines, pumps and other related equipment shall be visually inspected as part of the routine facility inspection. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(i) Oil bearing Equipment in Switchyards. The permittee shall describe and implement measures to prevent or minimize contamination of surface runoff from oil bearing equipment in switchyard areas. The permittee shall consider the use of level grades and gravel surfaces to retard flows and limit the spread of spills, and the collection of stormwater runoff in perimeter ditches.

(j) Residue Hauling Vehicles. All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the container body. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds shall be repaired as soon as practicable.

(k) Ash Loading Areas. The permittee shall describe and implement procedures to reduce or control the tracking of ash and residue from ash loading areas. Where practicable, clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water before departure of each loaded vehicle.

(l) Areas Adjacent to Disposal Ponds or Landfills. The permittee shall describe and implement measures that prevent or minimize contamination of stormwater runoff from areas adjacent to disposal ponds or landfills. The permittee shall develop procedures to:
(i) Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and
(ii) Reduce ash residue on exit roads leading into and out of residue handling areas.

(m) Landfills, Scrapyards, Surface Impoundments, Open Dumps, General Refuse Sites. The plan shall address and include appropriate control measures to minimize the potential for contamination of runoff from landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(2) Comprehensive Site Compliance Evaluation. As part of the evaluation, qualified facility personnel shall inspect the following areas on a monthly basis: coal handling areas, loading and unloading areas, switchyards, fueling areas, bulk storage areas, ash handling areas, areas adjacent to disposal ponds and landfills, maintenance areas, liquid storage tanks, and long term and short term material storage areas.

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY MONITORING

OUTFALL NO. **001**

All analyses shall be in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

A listing of Virginia Environmental Laboratory Accreditation Program (VELAP) certified and/or accredited laboratories can be found at the following website:
http://www.dgs.state.va.us/DivisionofConsolidatedLaboratoryServices/Services/EnvironmentalLaboratoryCertification/tabid/1059/Default.aspx

Please be advised that additional water quality analyses may be necessary and/or required for permitting purposes.

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL (1)	REPORTING RESULTS	SAMPLE TYPE (2)	SAMPLE FREQUENCY
MISCELLANEOUS						
18496-25-8	Sulfide, dissolved (4)	(3)	100		G or C	1/5 YR

_____
Name of Principal Executive Officer or Authorized Agent/Title

_____
Signature of Principal Executive Officer or Authorized Agent/Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Footnotes to Water Quality Monitoring Attachment A

(1) Quantification level (QL) means the minimum levels, concentrations, or quantities of a target variable (e.g. target analyte) that can be reported with a specified degree of confidence in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

The quantification levels indicated for the metals are actually Specific Target Values developed for this permit. The Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The Specific Target Values are subject to change based on additional information such as hardness data, receiving stream flow, and design flows.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information (i.e. laboratory certificates of analysis) shall be submitted to document that the required quantification level has been attained.

(2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

C = Composite = A 4-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period.

(3) A specific analytical method is not specified; however, an appropriate method to meet the QL shall be selected from (i) any approved method presented in 40 CFR Part 136 or (ii) any alternative EPA approved method, provided that all analyses are in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

(4) Dissolved sulfide may be measured by the total sulfide analysis. The total sulfide analytical test QL shall be less than or equal to the dissolved sulfide method QL listed above. If the result of the total sulfide analysis is less than the analytical test QL, dissolved sulfide can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY MONITORING

OUTFALL NO. **002 (West Treatment Pond)**

All analyses shall be in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

A listing of Virginia Environmental Laboratory Accreditation Program (VELAP) certified and/or accredited laboratories can be found at the following website:
http://www.dgs.state.va.us/DivisionofConsolidatedLaboratoryServices/Services/EnvironmentalLaboratoryCertification/tabid/1059/Default.aspx

Please be advised that additional water quality analyses may be necessary and/or required for permitting purposes.

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL (1)	REPORTING RESULTS	SAMPLE TYPE (2)	SAMPLE FREQUENCY
METALS						
7440-36-0	Antimony, dissolved	(3)	8,400		G or C	1/5 YR
7440-38-2	Arsenic, dissolved	(3)	550		G or C	1/5 YR
7440-43-9	Cadmium, dissolved	(3)	3.9		G or C	1/5 YR
16065-83-1	Chromium III, dissolved (6)	(3)	640		G or C	1/5 YR
18540-29-9	Chromium VI, dissolved (6)	(3)	26		G or C	1/5 YR
7440-50-8	Copper, dissolved	(3)	14		G or C	1/5 YR
7439-92-1	Lead, dissolved	(3)	110		G or C	1/5 YR
7439-97-6	Mercury, dissolved	(3)	2.3		G or C	1/5 YR
7440-02-0	Nickel, dissolved	(3)	200		G or C	1/5 YR
7782-49-2	Selenium, total recoverable	(3)	32		G or C	1/5 YR
7440-22-4	Silver, dissolved	(3)	2.6		G or C	1/5 YR
7440-28-0	Thallium, dissolved	(3)	(4)		G or C	1/5 YR
7440-66-6	Zinc, dissolved	(3)	130		G or C	1/5 YR
PESTICIDES/PCBS						
309-00-2	Aldrin	608/625	0.05		G or C	1/5 YR
57-74-9	Chlordane	608/625	0.2		G or C	1/5 YR
2921-88-2	Chlorpyrifos (synonym = Dursban)	622	(4)		G or C	1/5 YR
72-54-8	DDD	608/625	0.1		G or C	1/5 YR
72-55-9	DDE	608/625	0.1		G or C	1/5 YR
50-29-3	DDT	608/625	0.1		G or C	1/5 YR
8065-48-3	Demeton (synonym = Dementon-O,S)	622	(4)		G or C	1/5 YR
333-41-5	Diazinon	622	(4)		G or C	1/5 YR
60-57-1	Dieldrin	608/625	0.1		G or C	1/5 YR
959-98-8	Alpha-Endosulfan (synonym = Endosulfan I)	608/625	0.1		G or C	1/5 YR
33213-65-9	Beta-Endosulfan (synonym = Endosulfan II)	608/625	0.1		G or C	1/5 YR
1031-07-8	Endosulfan Sulfate	608/625	0.1		G or C	1/5 YR

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY MONITORING

OUTFALL NO. **002 (West Treatment Pond)**

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL (1)	REPORTING RESULTS	SAMPLE TYPE (2)	SAMPLE FREQUENCY
72-20-8	Endrin	608/625	0.1		G or C	1/5 YR
7421-93-4	Endrin Aldehyde	608/625	(4)		G or C	1/5 YR
86-50-0	Guthion (synonym = Azinphos Methyl)	622	(4)		G or C	1/5 YR
76-44-8	Heptachlor	608/625	0.05		G or C	1/5 YR
1024-57-3	Heptachlor Epoxide	608/625	(4)		G or C	1/5 YR
319-84-6	Hexachlorocyclohexane Alpha-BHC	608/625	(4)		G or C	1/5 YR
319-85-7	Hexachlorocyclohexane Beta-BHC	608/625	(4)		G or C	1/5 YR
58-89-9	Hexachlorocyclohexane Gamma-BHC (synonym = Lindane)	608/625	(4)		G or C	1/5 YR
143-50-0	Kepone	8081 Extended/ 8270C/8270D	(4)		G or C	1/5 YR
121-75-5	Malathion	614	(4)		G or C	1/5 YR
72-43-5	Methoxychlor	608.2	(4)		G or C	1/5 YR
2385-85-5	Mirex	8081 Extended/ 8270C/8270D	(4)		G or C	1/5 YR
56-38-2	Parathion (synonym = Parathion Ethyl)	614	(4)		G or C	1/5 YR
1336-36-3	PCB, total	608/625	7.0		G or C	1/5 YR
8001-35-2	Toxaphene	608/625	5.0		G or C	1/5 YR
BASE NEUTRAL EXTRACTABLES						
83-32-9	Acenaphthene	610/625	10.0		G or C	1/5 YR
120-12-7	Anthracene	610/625	10.0		G or C	1/5 YR
92-87-5	Benzidine	625	(4)		G or C	1/5 YR
56-55-3	Benzo (a) anthracene	610/625	10.0		G or C	1/5 YR
205-99-2	Benzo (b) fluoranthene	610/625	10.0		G or C	1/5 YR
207-08-9	Benzo (k) fluoranthene	610/625	10.0		G or C	1/5 YR
50-32-8	Benzo (a) pyrene	610/625	10.0		G or C	1/5 YR
111-44-4	Bis 2-Chloroethyl Ether	625	(4)		G or C	1/5 YR
108-60-1	Bis 2-Chloroisopropyl Ether	625	(4)		G or C	1/5 YR
117-81-7	Bis-2-Ethylhexyl Phthalate (synonym = Di-2-Ethylhexyl Phthalate)	625	10.0		G or C	1/5 YR
85-68-7	Butyl benzyl phthalate	625	10.0		G or C	1/5 YR
91-58-7	2-Chloronaphthalene	625	(4)		G or C	1/5 YR
218-01-9	Chrysene	610/625	10.0		G or C	1/5 YR
53-70-3	Dibenz(a,h)anthracene	610/625	20.0		G or C	1/5 YR
95-50-1	1,2-Dichlorobenzene	602/624	10.0		G or C	1/5 YR
541-73-1	1,3-Dichlorobenzene	602/624	10.0		G or C	1/5 YR

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY MONITORING

OUTFALL NO. **002 (West Treatment Pond)**

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL (1)	REPORTING RESULTS	SAMPLE TYPE (2)	SAMPLE FREQUENCY
106-46-7	1,4-Dichlorobenzene	602/624	10.0		G or C	1/5 YR
91-94-1	3,3-Dichlorobenzidine	625	(4)		G or C	1/5 YR
84-66-2	Diethyl phthalate	625	10.0		G or C	1/5 YR
131-11-3	Dimethyl phthalate	625	(4)		G or C	1/5 YR
84-74-2	Di-n-butyl Phthalate (synonym = Dibutyl Phthalate)	625	10.0		G or C	1/5 YR
121-14-2	2,4-Dinitrotoluene	625	10.0		G or C	1/5 YR
122-66-7	1,2-Diphenylhydrazine	625/ 8270C/8270D	(4)		G or C	1/5 YR
206-44-0	Fluoranthene	610/625	10.0		G or C	1/5 YR
86-73-7	Fluorene	610/625	10.0		G or C	1/5 YR
118-74-1	Hexachlorobenzene	625	(4)		G or C	1/5 YR
87-68-3	Hexachlorobutadiene	625	(4)		G or C	1/5 YR
77-47-4	Hexachlorocyclopentadiene	625	(4)		G or C	1/5 YR
67-72-1	Hexachloroethane	625	(4)		G or C	1/5 YR
193-39-5	Indeno(1,2,3-cd)pyrene	610/625	20.0		G or C	1/5 YR
78-59-1	Isophorone	625	10.0		G or C	1/5 YR
98-95-3	Nitrobenzene	625	10.0		G or C	1/5 YR
62-75-9	N-Nitrosodimethylamine	625	(4)		G or C	1/5 YR
621-64-7	N-Nitrosodi-n-propylamine	625	(4)		G or C	1/5 YR
86-30-6	N-Nitrosodiphenylamine	625	(4)		G or C	1/5 YR
129-00-0	Pyrene	610/625	10.0		G or C	1/5 YR
120-82-1	1,2,4-Trichlorobenzene	625	10.0		G or C	1/5 YR
VOLATILES						
107-02-8	Acrolein	624	(4)		G	1/5 YR
107-13-1	Acrylonitrile	624	(4)		G	1/5 YR
71-43-2	Benzene	602/624	10.0		G	1/5 YR
75-25-2	Bromoform	624	10.0		G	1/5 YR
56-23-5	Carbon Tetrachloride	624	10.0		G	1/5 YR
108-90-7	Chlorobenzene (synonym = Monochlorobenzene)	602/624	50.0		G	1/5 YR
124-48-1	Chlorodibromomethane	624	10.0		G	1/5 YR
67-66-3	Chloroform	624	10.0		G	1/5 YR
75-27-4	Dichlorobromomethane	624	10.0		G	1/5 YR
107-06-2	1,2-Dichloroethane	624	10.0		G	1/5 YR

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY MONITORING

OUTFALL NO. **002 (West Treatment Pond)**

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL (1)	REPORTING RESULTS	SAMPLE TYPE (2)	SAMPLE FREQUENCY
75-35-4	1,1-Dichloroethylene	624	10.0		G	1/5 YR
156-60-5	1,2-trans-dichloroethylene	624	(4)		G	1/5 YR
78-87-5	1,2-Dichloropropane	624	(4)		G	1/5 YR
542-75-6	1,3-Dichloropropene	624	(4)		G	1/5 YR
100-41-4	Ethylbenzene	602/624	10.0		G	1/5 YR
74-83-9	Methyl Bromide (synonym = Bromomethane)	624	(4)		G	1/5 YR
75-09-2	Methylene Chloride (synonym = Dichloromethane)	624	20.0		G	1/5 YR
79-34-5	1,1,2,2-Tetrachloroethane	624	(4)		G	1/5 YR
127-18-4	Tetrachloroethylene (synonym = Tetrachloroethene)	624	10.0		G	1/5 YR
10-88-3	Toluene	602/624	10.0		G	1/5 YR
79-00-5	1,1,2-Trichloroethane	624	(4)		G	1/5 YR
79-01-6	Trichloroethylene (synonym = Trichloroethene)	624	10.0		G	1/5 YR
75-01-4	Vinyl Chloride	624	10.0		G	1/5 YR
ACID EXTRACTABLES						
95-57-8	2-Chlorophenol	625	10.0		G or C	1/5 YR
120-83-2	2,4 Dichlorophenol	625	10.0		G or C	1/5 YR
105-67-9	2,4 Dimethylphenol	625	10.0		G or C	1/5 YR
51-28-5	2,4-Dinitrophenol	625	(4)		G or C	1/5 YR
534-52-1	2-Methyl-4,6-Dinitrophenol	625	(4)		G or C	1/5 YR
104-40-51	Nonylphenol	ASTM D 7065-06	(4)		G or C	1/5 YR
87-86-5	Pentachlorophenol	625	50.0		G or C	1/5 YR
108-95-2	Phenol	625	10.0		G or C	1/5 YR
88-06-2	2,4,6-Trichlorophenol	625	10.0		G or C	1/5 YR
MISCELLANEOUS						
776-41-7	Ammonia as NH3-N	350.1	200		C	1/5 YR
16887-00-6	Chloride	(3)	(4)		C	1/5 YR
7782-50-5	Chlorine, Total Residual	(3)	100		G	1/5 YR
57-12-5	Cyanide, Free (7)	ASTM 4282-02	10.0		G	1/5 YR
N/A	E. coli / Enterococcus (N/CML)	(3)	(4)		G	1/5 YR
18496-25-8	Sulfide, dissolved (8)	(3)	100		G or C	1/5 YR
60-10-5	Tributyltin	(5)	(4)		G or C	1/5 YR

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY MONITORING

OUTFALL NO. **002 (West Treatment Pond)**

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL (1)	REPORTING RESULTS	SAMPLE TYPE (2)	SAMPLE FREQUENCY
471-34-1	Hardness (mg/L as $CaCO_3$)	(3)	(4)		C	1/5 YR

_____

Name of Principal Executive Officer or Authorized Agent/Title

_____

Signature of Principal Executive Officer or Authorized Agent/Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) means the minimum levels, concentrations, or quantities of a target variable (e.g. target analyte) that can be reported with a specified degree of confidence in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

The quantification levels indicated for the metals are actually Specific Target Values developed for this permit. The Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The Specific Target Values are subject to change based on additional information such as hardness data, receiving stream flow, and design flows.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information (i.e. laboratory certificates of analysis) shall be submitted to document that the required quantification level has been attained.

(2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

C = Composite = A 4-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period.

(3) A specific analytical method is not specified; however, an appropriate method to meet the QL shall be selected from (i) any approved method presented in 40 CFR Part 136 or (ii) any alternative EPA approved method, provided that all analyses are in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

(4) The QL is at the discretion of the permittee. If the test result is less than the method QL, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

(5) Analytical Methods: Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science, dated November 1996 (currently the only Virginia Environmental Laboratory Accreditation Program (VELAP) accredited method).

(6) Both Chromium III and Chromium VI may be measured by the total chromium analysis. The total chromium analytical test QL shall be less than or equal to the lesser of the Chromium III or Chromium VI method QL listed above. If the result of the total chromium analysis is less than the analytical test QL, both Chromium III and Chromium VI can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].

(7) Free cyanide may be measured by the total cyanide analysis. The total cyanide analytical test QL shall be less than or equal to the free cyanide method QL listed above. If the result of the total cyanide analysis is less than the analytical test QL, free cyanide can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].

(8) Dissolved sulfide may be measured by the total sulfide analysis. The total sulfide analytical test QL shall be less than or equal to the dissolved sulfide method QL listed above. If the result of the total sulfide analysis is less than the analytical test QL, dissolved sulfide can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements taken as required by this permit shall be taken at the permit designated or approved location and be representative of the monitored activity.
   a. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
   b. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.
   c. Samples taken shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

2. Any pollutant specifically addressed by this permit that is sampled or measured at the permit designated or approved location more frequently than required by this permit shall meet the requirements in Part I.A.1.a through c above and the results of this monitoring shall be included in the calculations and reporting required by this permit.

3. Operational or process control samples or measurements shall not be taken at the designated permit sampling or measurement locations. Operational or process control samples or measurements do not need to follow procedures approved under Title 40 Code of Federal Regulations Part 136 or be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records

1. Records of monitoring information shall include:
   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) and time(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after the required monitoring period, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Department of Environmental Quality
   Valley Regional Office
   P.O. Box 3000
   Harrisonburg, Virginia 22801

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

3. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information
The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports
Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges
Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:
1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges
Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II.F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II.F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges
If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:
1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.
2. A written report shall be submitted within 5 days and shall contain:
   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.
3. The permittee shall report all instances of noncompliance not reported under Parts II.I.1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II.G, H and I may be made to the Department's Valley Regional Office at (540) 574-7892 (voice), (540) 574-7878 (fax), or online at http://www.deq.virginia.gov/Programs/PollutionResponsePreparedness/MakingaReport.aspx. For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
      (1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
      (2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;
   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. Applications. All permit applications shall be signed as follows:
   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
   b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
   c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
   a. The authorization is made in writing by a person described in Part II.K.1;
   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
   c. The written authorization is submitted to the Department.
3. Changes to authorization. If an authorization under Part II.K.2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.
4. Certification. Any person signing a document under Parts II.K.1 or 2 shall make the following certification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply
If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit
This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law
Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U), and "upset" (Part II.V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance
The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of solids or sludges
Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate
The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense
It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass
1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II.U.2 and U.3.
2. Notice
   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.

3. Prohibition of bypass
   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
      (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
      (3) The permittee submitted notices as required under Part II.U.2.
   b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset
1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
   a. An upset occurred and that the permittee can identify the cause(s) of the upset;
   b. The permitted facility was at the time being properly operated;
   c. The permittee submitted notice of the upset as required in Part II.I; and
   d. The permittee complied with any remedial measures required under Part II.S.
3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry
The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:
1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions
Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of Permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.
2. As an alternative to transfers under Part II.Y.1, this permit may be automatically transferred to a new permittee if:
   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. VA0004138

Effective Date: August 13, 2010
Expiration Date: July 31, 2015

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I - Effluent Limitations and Monitoring Requirements, and Part II – Conditions Applicable To All VPDES Permits, as set forth herein.

Owner:	**Virginia Electric and Power Company**
Facility Name:	**Dominion – Bremo Power Station**
County:	**Fluvanna**
Facility Location:	**1038 Bremo Road, Bremo Bluff**

The owner is authorized to discharge to the following receiving stream:

Stream:	**James River**
River Basin:	James River (Middle)
River Subbasin:	N/A
Section:	10
Class:	III
Special Standards:	None

for Amy T. Owens, Regional Director
Valley Regional Office

8/12/10
Date

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall 001 (Once Through Condenser Cooling Water).

   This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [a]	NL	NA	NA	NL	1/Month	Estimate
pH (standard units)	NA	NA	6.0	9.0	1/Month	Grab
Total Residual Chlorine (TRC)(mg/L) [b,c]	NA	NA	NA	0.20	1/Day	Grab
Heat Rejected ($x10^9$ BTU/Hr) [d]	NA	NA	NA	1.62	1/Month	Calculated

NL = No Limitation, monitoring required *NA = Not Applicable*

a. There are no wastewater treatment facilities. The permit is based on a once through condenser cooling water flow of 172.8 MGD.
b. See Part I.B. for additional monitoring instructions.
c. When chlorine is not applied the daily maximum shall be reported as "NR" meaning not required. See Part I.E.7. for additional monitoring instructions.
d. See Part I.E.9. for additional monitoring instructions.
e. There shall be no discharge of floating solids or visible foam in other than trace amounts.

2. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall 002 (West Ash Pond which includes storm water exposed to industrial activity).

   This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [a]	NL	NA	NA	NL	2/Month	Estimate
pH (standard units)	NA	NA	6.0	9.0	2/Month	Grab
Total Suspended Solids (mg/L) [b]	30.0	NA	NA	100.0	2/Month	Grab
Oil & Grease (mg/L) [b]	15.0	NA	NA	20.0	1/3 Months	Grab

NL = No Limitation, monitoring required *NA = Not Applicable*
1/3 Months = Quarterly sampling with the results submitted with the DMR due Jan 10th, April 10th, July 10th and October 10th of each year

a. The permit is based on a West Ash Pond maximum 30-day average flow of 4.2912 MGD.
b. See Part I.B. for additional monitoring instructions.
c. There shall be no discharge of floating solids or visible foam in other than trace amounts.

3. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall 004 (North Ash Disposal Facility which includes storm water exposed to industrial activity).

   This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [a]	NL	NA	NA	NL	1/3 Months	Estimate
pH (standard units)	NA	NA	6.0	9.0	1/3 Months	Grab
Total Suspended Solids (mg/L) [b]	30.0	NA	NA	100.0	1/3 Months	Grab
Oil & Grease (mg/L) [b]	15.0	NA	NA	20.0	1/3 Months	Grab

NL = No Limitation, monitoring required NA = Not Applicable
1/3 Months = Quarterly sampling with the results submitted with the DMR due January 10th, April 10th, July 10th and October 10th of each year

a. The permit is based on a North Ash Disposal Facility maximum 30-day average flow of 0.4090 MGD.
b. See Part I.B. for additional monitoring instructions.
c. There shall be no discharge of floating solids or visible foam in other than trace amounts.

4. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfalls 101 (Intake Screen Backwash), 003 (Abandoned East Ash Pond), and 006 (Floodwall Discharge).

   This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type

Outfall 101 shall contain only river water from the screen backwash. [a]

Outfalls 003 and 006 shall contain only storm water not associated with a regulated industrial activity where monitoring would be required. [b,c]

There shall be no discharge of process wastewater from these outfalls. No monitoring of these outfalls is required.

a. See Part I.E.5. for additional requirements.
b. See Part I.F. for additional requirements relating to storm water management.
c. There shall be no discharge of floating solids or visible foam in other than trace amounts.

5. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall 202 (Metal Cleaning Waste Treatment Basin).

   This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	Monthly Average		Weekly Average	Minimum	Maximum		Frequency	Sample Type
Flow (MGD)	NL		NA	NA	NL		1/6 Months	Estimate
Total Suspended Solids (mg/L) [b]	30.0		NA	NA	100.0		1/6 Months	Grab
Oil and Grease(mg/L) [b]	15.0		NA	NA	20.0		1/6 Months	Grab
Total Iron [b]	1.0 mg/L	3.8 kg/d	NA	NA	1.0 mg/L	6.1 kg/d	1/6 Months	Grab
Total Copper [b]	1.0 mg/L	3.8 kg/d	NA	NA	1.0 mg/L	6.1 kg/d	1/6 Months	Grab

NL = No Limitation, monitoring required *NA = Not Applicable*
1/6 Months = Semiannual sampling with the results submitted with the DMR due January 10th and July 10th of each year

a. The permit is based on a daily maximum flow of 1.6138 MGD and maximum 30-day average flow of 1.0146 MGD.
b. See Part I.B. for additional monitoring instructions.

6. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall 203 (Sewage Treatment Plant).

   This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [a]	NL	NA	NA	NL	1/Month	Estimate
Total Residual Chlorine (mg/L) [b]	NA	NA	1.0	NA	1/Month	Grab

NL = No Limitation, monitoring required *NA = Not Applicable*

a. The design flow of this treatment facility is 0.0432 MGD. See Part I.E.1. for additional requirements related to facility flows.
b. See Part I.B. for additional monitoring instructions.

7. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall 204 (internal outfall to Outfall 002 containing storm water runoff from the coal pile).

   This discharge shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Total Suspended Solids (mg/L) [a,b]	NA	NA	NA	50	1/Year	Grab

NL = No Limitation, monitoring required *NA = Not Applicable*
1/Year = Annual sampling with the results submitted with the DMR due January 10th of each year

a. See Part I.B. for additional monitoring instructions.
b. Any untreated overflow from facilities designed, constructed and operated to treat the volume of material storage pile runoff that is associated with a 10 year, 24-hour rainfall event shall not be subject to the 50 mg/L limitation for total suspended solids.

B. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - ADDITIONAL INSTRUCTIONS

1. Quantification Levels (QLs) shall be less than or equal to the following concentrations:

Effluent Characteristic	QL
Suspended Solids	1.0 mg/L
Total Residual Chlorine	0.10 mg/L
Oil & Grease	5.0 mg/L
Total Copper	1.0 mg/L
Total Iron	1.0 mg/L

2. Compliance Reporting Under Part I.A.

   a. Monthly Average -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.B.1. above shall be determined as follows: All data below the test method QL shall be treated as zeros. All data equal to or above the test method QL shall be treated as reported. Arithmetic concentration and/or loading averages (as applicable) shall be calculated using all reported data for the month, including the defined zeros. These averages shall be reported on the Discharge Monitoring Report (DMR). If all data are less than the test method QL, then "<QL" shall be reported on the DMR for the concentration and/or loading values. Otherwise the average values shall be reported as calculated.

   b. Daily Maximum -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in Part I.B.1. above shall be determined as follows: All data below the test method QL shall be treated as zeros. All data equal to or above the test method QL shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are less than the test method QL, then "<QL" shall be reported on the DMR for the concentration and/or loading values.

   c. Any single datum required shall be reported as "<QL" if it is less than the test method QL. Otherwise, the numerical value shall be reported.

   d. The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

C. GROUND WATER MONITORING PROGRAM -- Within 1 year of the effective date of the permit, the permittee shall submit to the DEQ-Valley Regional Office for approval a Ground Water Monitoring Program (GWMP) which addresses all active and closed impoundments and ponds and provides an evaluation for impacts to ground water quality. The approved program is an enforceable part of the permit. Any changes to the plan must be submitted for approval to the DEQ-Valley Regional Office.

   If monitoring results indicate that any unit or activities have contaminated ground water, the permittee shall submit a corrective action plan within 90 days. The plan shall set forth the steps to be taken by the permittee to ensure that the contamination source is eliminated or the contaminant plume is contained on the permittee's property. In addition, based on the extent of contamination, a risk analysis may be required. Once approved, this plan and/or analysis shall be incorporated into the permit by reference and become an enforceable part of this permit.

D. WHOLE EFFLUENT TOXICITY (WET) MONITORING REQUIREMENTS

1. Biological Monitoring – Outfall 002

a. In accordance with the schedule in Part I.D.1.d. below, the permittee shall conduct quarterly acute and chronic toxicity tests using grab samples of final effluent collected from Outfall 002.

The acute test shall be a 48-Hour Static Acute test using *Ceriodaphnia dubia*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, with a minimum of 4 replicates per dilution and a minimum of 5 organisms per replicate for calculation of a valid No Observed Adverse Effect Concentration (NOAEC). Express the results as Acute Toxicity Units (TU_a) by dividing 100/NOAEC. The LC_{50} should also be determined, noted, and submitted in the required test report. Tests in which control survival is less than 90% are not acceptable.

The chronic test shall be a Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, in order to determine the No Observed Effect Concentration (NOEC) for survival and reproduction or growth. Results which cannot be determined (i.e. a "less than" or "zero" NOEC value) are not acceptable, and a retest requiring further dilution must be started within 30 days of the original sample. Such "less than" or "zero" results must be submitted and will be regarded as evidence of effluent toxicity. Express the results as Chronic Toxicity Units (TU_c) by dividing 100/NOEC. Report the LC_{50} for each chronic test at the 48-hour point, and the IC_{25}, if calculable, with the NOECs in the required test report.

During the term of the permit, the permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

b. The test dilutions shall be able to determine compliance with the following endpoints:

(a) Acute NOAEC of 100%, equivalent to 1.0 TU_a
(b) Chronic NOEC of 36%, equivalent to 2.78 TU_c

c. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of Part I.D.1.a. may be discontinued. If the data indicate that no limit is needed, the permittee shall continue acute and chronic toxicity testing of the outfall annually, as specified in Part I.D.1.d. below.

d. The permittee shall supply 1 copy of the test report for the toxicity tests specified in Part I.D.1.a. in accordance with the following schedule:

Monitoring Period	Testing Period	Report Submittal Dates
1st Quarter	10/01/2010 – 12/31/2010	02/10/2011
2nd Quarter	01/01/2011 – 03/31/2011	05/10/2011
3rd Quarter	04/01/2011 – 06/30/2011	08/10/2011
4th Quarter	07/01/2011 – 09/30/2011	11/10/2011
1st Annual	01/01/2012 – 12/31/2012	02/10/2013
2nd Annual	01/01/2013 – 12/31/2013	02/10/2014
3rd Annual	01/01/2014 – 12/31/2014	02/10/2015

2. Biological Monitoring – Outfall 004

a. In accordance with the schedule in Part I.D.2.d. below, the permittee shall conduct annual acute toxicity tests using grab samples of final effluent collected from Outfall 004.

The acute tests shall be a 48-Hour Static Acute test using *Ceriodaphnia dubia*. Each test shall be performed with a minimum of 5 dilutions, derived geometrically, for calculation of a valid LC_{50}. Express the results as TU_a by dividing $100/LC_{50}$.

During the term of the permit, the permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

b. The test dilutions shall be able to determine compliance with the following endpoint:

Acute LC_{50} of 100%, equivalent to 1.0 TU_a.

c. The permittee shall supply 1 copy of the test report for the toxicity tests specified in this Part I.D.2.a. in accordance with the following schedule:

Monitoring Period	Testing Period	Report Submittal Dates
1st Annual	01/01/2011 – 12/31/2011	01/10/2012
2nd Annual	01/01/2012 – 12/31/2012	01/10/2013
3rd Annual	01/01/2013 – 12/31/2013	01/10/2014
4th Annual	01/01/2014 – 12/31/2014	01/10/2015

E. OTHER REQUIREMENTS AND SPECIAL CONDITIONS

1. 95% Capacity Reopener for Internal Outfall 203 (Sewage Treatment Plant) -- A written notice and a plan of action for ensuring continued compliance with the terms of this permit shall be submitted to:

   Department of Environmental Quality
   Valley Regional Office
   P.O. Box 3000
   Harrisonburg, Virginia 22801

   when the monthly average flow influent to the wastewater treatment facilities discharging via internal Outfall 203 reaches 95 percent of the design capacity authorized in this permit for each month of any three consecutive month period. The written notice shall be submitted within 30 days and the plan of action shall be received at the DEQ-Valley Regional Office no later than 90 days from the third consecutive month for which the flow reached 95 percent of the design capacity. The plan shall include the necessary steps and a prompt schedule of implementation for controlling any current or reasonably anticipated problem resulting from high influent flows. Failure to submit an adequate plan in a timely manner shall be deemed a violation of this permit.

2. Materials Handling/Storage -- Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

3. Operations and Maintenance (O&M) Manual Requirements --

   a. The permittee shall maintain a current and approved O&M Manual for the treatment works. This manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items:

      (1) Treatment system design, treatment system operation, routine preventive maintenance of units within the treatment system, critical spare parts inventory and record keeping;
      (2) Techniques to be employed in the collection, preservation, and analysis of effluent samples;
      (3) Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants characterized in Part I.E.2. that will prevent these materials from reaching state waters;
      (4) Procedures for documenting compliance with the permit requirement that there shall be no discharge of floating solids or visible foam in other than trace amounts;
      (5) A plan for the management and/or disposal of waste solids/residues; and
      (6) Procedures for visually evaluating the berms of all active and closed impoundments and ponds for the presence of seeps and leaks.

      The permittee shall operate the treatment works in accordance with the approved O&M Manual. Any changes in the practices and procedures followed by the permittee shall be documented and submitted for DEQ approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit. Noncompliance with the O&M Manual shall be deemed a violation of the permit.

   b. Within 90 days of the effective date of the permit, the permittee shall submit to the DEQ-Valley Regional Office for approval revisions to the O&M Manual that address documenting compliance with the permit requirement that there shall be no discharge of floating solids or visible foam in other than trace amounts and visually evaluating the berms of all active and closed impoundments and ponds for the presence of seeps and leaks.

4. Sludge Management Plan (SMP) Requirement -- The permittee shall conduct all sewage sludge use or disposal activities in accordance with the SMP approved with the reissuance of this permit. Any proposed changes in the sewage sludge use or disposal practices or procedures followed by the permittee shall be documented and submitted for DEQ approval 90 days prior to the effective date of the changes. Upon approval, the SMP becomes an enforceable part of the permit. This permit may be modified or, alternatively, revoked and reissued to incorporate limitations/conditions necessitated by substantive changes in sewage sludge use or disposal practices.

5. Debris collected on the intake trash racks shall not be returned to the waterway.

6. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. Compliance with this requirement will be determined using EPA Method 608.

7. Neither free nor total residual chlorine may be discharged via Outfall 001 from any single generating unit for more than two hours per day unless the permittee demonstrates to DEQ that discharge for more than two hours is required for macroinvertebrate control. Simultaneous multi-unit chlorination is permitted.

   Should the permittee find that the discharge exceeds the required permit limit, the permittee must implement appropriate measures to bring the discharge into compliance within one hour from the time the permittee collected the first sample. If, after the one-hour period, the permittee finds the discharge exceeds the permit limit, the permittee shall report the noncompliance status to the DEQ-Valley Regional Office.

   The appropriate measures shall include, but not be limited to, the adjustment of the dosage of the chlorine additive. If the permittee determines that the analytical instrumentation has failed, and a different analytical method is required, the permittee must notify the DEQ-Valley Regional Office of the change in instrumentation.

8. The permittee shall comply with the Water Quality Standards for temperature outside the approved thermal mixing zone. The approved mixing zone is defined as 40% of the width of the James River, as measured from the north bank extending from the John H. Cooke Memorial Bridge downstream to Spicer's Island, approximately 5 ½ miles downstream of the cooling water discharge (Outfall 001).

9. Monitoring of the thermal mixing zone shall be conducted in accordance with the previously approved monitoring plan and shall take place once per year during the month of July. The monitoring shall be conducted as near to full plant operating conditions as reasonably possible and the monitoring results shall be presented as a temperature plot with three degree centigrade isotherms. The results of the thermal mixing zone monitoring shall be submitted on or before October 31st of each year.

10. Reopeners -- This permit may be modified or, alternatively, revoked and reissued:

    a. If any approved waste load allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes waste load allocations, limits or conditions on the facility that are not consistent with the permit requirements; or

    b. To incorporate alternative nutrient limitations and/or monitoring requirements, should:
       (1) the State Water Control Board adopt new nutrient standards for the water body receiving the discharge, including the Chesapeake Bay or its tributaries; or
       (2) a future water quality regulation or statute require new or alternative nutrient control; or

    c. If any applicable standard for sewage sludge use or disposal promulgated under Section 405(d) of the Clean Water Act is more stringent than any requirements for sludge use or disposal in this permit, or controls a pollutant or practice not limited in this permit.

11. Notification Levels -- The permittee shall notify the DEQ-Valley Regional Office as soon as they know or have reason to believe:

    a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
       (1) 100 µg/L;
       (2) 200 µg/L for acrolein and acrylonitrile; 500 µg/L for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and 1 mg/L for antimony;
       (3) Five times the maximum concentration value reported for that pollutant in the permit application; or
       (4) The level established by the Board.
    b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
       (1) 500 µg/L;
       (2) 1 mg/L for antimony;
       (3) Ten times the maximum concentration value reported for that pollutant in the permit application; or
       (4) The level established by the Board.

12. Oil Storage Ground Water Monitoring Reopener -- As this facility currently manages ground water in accordance with 9 VAC 25-90-10 et seq., Oil Discharge Contingency Plans and Administration Fees for Approval, this permit does not presently impose ground water monitoring requirements in conjunction with the oil storage facilities. However, this permit may be modified or, alternatively, revoked and reissued to incorporate ground water monitoring not required by the ODCP regulation.

13. Cooling Water Intake Structure -- As required by § 316(b) of the Clean Water Act, the location, design, construction and capacity of the cooling water intake structures for the permitted facility shall reflect the best technology available (BTA) for minimizing adverse environmental impact. This permit may be reopened to address compliance with Clean Water Act § 316(b) through requirements including but not limited to those specified in EPA regulations in 40 CFR Part 125 Subpart J when finalized.

    An assessment shall be conducted to determine the BTA to reduce impingement mortality from the operation of the cooling water intake structures. The assessment shall evaluate all feasible technologies to minimize the impingement impacts from the cooling water withdrawal. A report describing the results of the BTA assessment and recommendations for any technology improvements needed to prevent an unacceptable level of impingement shall be submitted to DEQ-Valley Regional Office for approval within 12 months from the effective date of the permit. Within 18 months following the effective date of the permit, the permittee shall submit for DEQ approval a schedule for designing and constructing any recommended technology. Following approval, the permittee shall design and construct the facilities in accordance with the schedule.

14. Certificate to Construct (CTC)/Certificate to Operate (CTO) Requirement -- The permittee shall, in accordance with the DEQ Sewage Collection and Treatment Regulation (9 VAC 25-790), obtain a CTC and a CTO prior to construction and operating the wastewater treatment works serving Internal Outfall 203. Noncompliance with the CTC or CTO shall be deemed a violation of the permit.

F. STORM WATER MANAGEMENT CONDITIONS

1. General Storm Water Special Conditions

a. Quarterly Visual Examination of Storm Water Quality
The permittee must perform and document a quarterly visual examination of a storm water discharge associated with industrial activity from each outfall, except discharges exempted below. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December. The visual examination must be made during daylight hours (e.g., normal working hours). If no storm event resulted in runoff from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no runoff occurred. The documentation must be signed and certified in accordance with Part II.K. of this permit.

(1) Visual examinations must be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging from the facility. The examination must document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well-lit area. No analytical tests are required to be performed on the samples. All samples (except snowmelt samples) must be collected from the discharge resulting from a storm event that results in an actual discharge from the site (defined as a "measurable storm event"), and that occurs at least 72 hours from the previously measurable storm event. The 72-hour storm interval is waived if the permittee is able to document that less than a 72-hour interval is representative for local storm events during the sampling period. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term. If no qualifying storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no qualifying storm event occurred during daylight hours that resulted in storm water runoff during that quarter. The documentation must be signed and certified in accordance with Part II.K.
(2) The visual examination reports must be maintained on-site with the Storm Water Pollution Prevention Plan (SWPPP). The report must include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.
(3) If the facility has two or more outfalls that discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, the permittee may conduct visual monitoring on the effluent of just one of the outfalls and report that the observations also apply to the substantially identical outfall(s), provided that the permittee includes in the SWPPP a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents.
In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)) shall be provided in the plan.

(4) When the permittee is unable to conduct the visual examination due to adverse climatic conditions, the permittee must document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

b. Allowable Non-Storm Water Discharges

(1) The following non-storm water discharges are authorized by this permit provided the non-storm water component of the discharge is in compliance with b.(2), below:
   (a) Discharges from fire fighting activities;
   (b) Fire hydrant flushings;
   (c) Potable water including water line flushings;
   (d) Uncontaminated air conditioning or compressor condensate;
   (e) Irrigation drainage;
   (f) Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with manufacturer's instructions;
   (g) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
   (h) Routine external building wash down which does not use detergents;
   (i) Uncontaminated ground water or spring water;
   (j) Foundation or footing drains where flows are not contaminated with process materials;
   (k) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains); and
   (l) Leaks from ultra filtration, reverse osmosis, and electrode ionization processes.

(2) Except for flows from fire fighting activities, the SWPPP must include:
   (a) Identification of each allowable non-storm water source;
   (b) The location where the non-storm water is likely to be discharged; and
   (c) Descriptions of appropriate BMPs for each source.

(3) If mist blown from cooling towers is included as one of the allowable non-storm water discharges from the facility, the permittee must specifically evaluate the discharge for the presence of chemicals used in the cooling tower. The evaluation shall be included in the SWPPP.

c. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

The discharge of hazardous substances or oil in the storm water discharge(s) from the facility shall be prevented or minimized in accordance with the SWPPP for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 or § 62.1-44.34:19 of the Code of Virginia. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period:

(1) The permittee is required to notify the Department in accordance with the requirements of Part II.G. as soon as he or she has knowledge of the discharge;
(2) Where a release enters a municipal separate storm sewer system (MS4), the permittee shall also notify the owner or the MS4; and
(3) The SWPPP required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

d. Additional Requirements for Salt Storage
Storage piles of salt or piles containing salt used for deicing or other commercial or industrial purposes shall be enclosed or covered to prevent exposure to precipitation. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. All salt storage piles shall be located on an impervious surface. All runoff from the pile, and/or runoff that comes in contact with salt, including under drain systems, shall be collected and contained within a bermed basin lined with concrete or other impermeable materials., or within an underground storage tank(s), or within an above ground storage tank(s), or disposed of through a sanitary sewer (with the permission of the treatment facility). A combination of any or all of these methods may be used. In no case shall salt contaminated storm water be allowed to discharge directly to the ground or to state waters.

2. Storm Water Pollution Prevention Plan

A SWPPP is required to be maintained and implemented for the facility. The plan shall include Best Management Practices (BMPs) that are reasonable, economically practicable, and appropriate in light of current industry practices. The BMPs shall be selected, designed, installed, implemented and maintained in accordance with good engineering practices to eliminate or reduce the pollutants in all storm water discharges from the facility. The plan shall also include any control measures necessary for the storm water discharges to meet applicable water quality standards.

Permittees shall implement the provisions of the SWPPP as a condition of this permit.

The SWPPP requirements of this permit may be fulfilled, in part, by incorporating by reference other plans or documents such as a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act, or best management practices (BMP) programs otherwise required for the facility, provided that the incorporated plan meets or exceeds the plan requirements of section b. below (Contents of the Plan). All plans incorporated by reference into the SWPPP become enforceable under this permit. If a plan incorporated by reference does not contain all of the required elements of the SWPPP of section b. below, the permittee shall develop the missing SWPPP elements and include them in the required plan.

a. Deadlines for Plan Preparation and Compliance
(1) The facility shall review and implement the existing plan as expeditiously as practicable, but not later than 270 days from the effective date of the permit. Verification of compliance shall be provided, in writing, within 10 days of the above deadline.
(2) Measures That Require Construction. In cases where construction is necessary to implement measures required by the plan, the plan shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of this permit. Where a construction compliance schedule is included in the plan, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.

b. Contents of the Plan
The contents of the SWPPP shall comply with the requirements listed below and those in Part I.F.3. below (Sector-Specific SWPPP Requirements**).** The plan shall include, at a minimum, the following items:

(1) Pollution Prevention Team. The plan shall identify the staff individuals by name or title that comprise the facility's storm water pollution prevention team. The pollution prevention team is responsible for assisting the facility or plant manager in developing, implementing, maintaining, revising, and ensuring compliance with the facility's SWPPP. Specific responsibilities of each staff individual on the team shall be identified and listed.

(2) Site Description.
The SWPPP shall include the following:
(a) Activities at the Facility.
A description of the nature of the industrial activities at the facility.
(b) General Location Map
A general location map (e.g., USGS quadrangle or other map) with enough detail to identify the location of the facility and the receiving waters within one mile of the facility.
(c) Site Map
A site map identifying the following:
(i) The size of the property (in acres);
(ii) The location and extent of significant structures and impervious surfaces (roofs, paved areas and other impervious areas);
(iii) Locations of all storm water conveyances including ditches, pipes, swales, and inlets, and the directions of storm water flow (use arrows to show which ways storm water will flow);
(iv) Locations of all existing structural and source control BMPs;
(v) Locations of all surface water bodies, including wetlands;
(vi) Locations of potential pollutant sources identified under in paragraph b.(3) below;
(vii) Locations where significant spills or leaks identified under paragraph b.(4) below, have occurred;
(viii) Locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; processing and storage areas; access roads, rail cars and tracks; transfer areas for substances in bulk; and machinery;
(ix) Locations of storm water outfalls and an approximate outline of the area draining to each outfall, and location of municipal storm sewer systems, if the storm water from the facility discharges to them;
(x) Location and description of all non-storm water discharges;
(xi) Location of any storage piles containing salt used for deicing or other commercial or industrial purposes; and
(xii) Locations and sources of runon to the site from adjacent property where the runon contains significant quantities of pollutants. The permittee shall include an evaluation with the SWPPP of how the quality of the storm water running onto the facility impacts the facility's storm water discharges.
(d) Receiving Waters and Wetlands.
The name of all surface waters receiving discharges from the site, including intermittent streams, dry sloughs, and arroyos. Provide a description of wetland sites that may receive discharges from the facility. If the facility discharges through a municipal separate storm sewer system (MS4), identify the MS4 operator, and the receiving water to which the MS4 discharges.

(3) Summary of Potential Pollutant Sources.
The plan shall identify each separate area at the facility where industrial materials or activities are exposed to storm water. Industrial materials or activities include, but are not limited to: material handling equipment or activities, industrial machinery, raw materials, industrial production and processes, intermediate products, byproducts, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For each separate area identified, the description shall include:
(a) Activities in Area
A list of the activities (e.g., material storage, equipment fueling and cleaning, cutting steel beams); and

(b) Pollutants
A list of the associated pollutant(s) or pollutant constituents (e.g. crankcase oil, zinc, sulfuric acid, cleaning solvents, etc.) for each activity. The pollutant list shall include all significant materials handled, treated, stored or disposed that are exposed to storm water. The list shall include any hazardous substances or oil at the facility.

(4) Spills and Leaks
The SWPPP shall clearly identify areas where potential spills and leaks that can contribute pollutants to storm water discharges can occur and their corresponding outfalls. The plan shall include a list of significant spills and leaks of toxic or hazardous pollutants that actually occurred at exposed areas, or that drained to a storm water conveyance during the three-year period prior to the date this SWPPP was prepared or amended. The list shall be updated if significant spills or leaks occur in exposed areas of the facility during the term of the permit. Significant spills and leaks include releases of oil or hazardous substances in excess of reportable quantities.

(5) Sampling Data
The plan shall include a summary of existing storm water discharge sampling data taken at the facility.

(6) Storm Water Controls
(a) BMPs shall be implemented for all the areas identified in Part I.F.2.b.(3) above (Summary of Potential Pollutant Sources) to prevent or control pollutants in storm water discharges from the facility. All reasonable steps shall be taken to control or address the quality of discharges from the site that may not originate at the facility. The SWPPP shall describe the type, location and implementation of all BMPs for each area where industrial materials or activities are exposed to storm water. Selection of BMPs shall take into consideration:
(i) That preventing storm water from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from storm water;
(ii) BMPs generally shall be used in combination with each other for most effective water quality protection;
(iii) Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures;
(iv) That minimizing impervious areas at the facility can reduce runoff and improve groundwater recharge and stream base flows in local streams (however, care must be taken to avoid ground water contamination);
(v) Flow attenuation by use of open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows;
(vi) Conservation or restoration of riparian buffers will help protect streams from storm water runoff and improve water quality; and
(vii) Treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.

(b) Control Measures
The permittee shall implement the following types of BMPs to prevent and control pollutants in the storm water discharges from the facility, unless it can be demonstrated and documented that such controls are not relevant to the discharges (e.g., there are no storage piles containing salt).
(i) Good Housekeeping
The permittee shall keep clean all exposed areas of the facility that are potential sources of pollutants to storm water discharges. Typical problem areas include areas around trash containers, storage areas, loading docks, and vehicle fueling and maintenance areas. The plan shall include a schedule for regular pickup and disposal of waste materials, along with routine inspections for leaks and conditions of drums, tanks and containers. The introduction of raw, final or waste materials to exposed areas of the facility shall be minimized to the maximum extent practicable. The generation of dust, along with off-site vehicle tracking of raw, final or waste materials, or sediments, shall be minimized to the maximum extent practicable.

(ii) Eliminating and Minimizing Exposure.
To the extent practicable, industrial materials and activities shall be located inside, or protected by a storm-resistant covering to prevent exposure to rain, snow, snowmelt, and runoff. Note: Eliminating exposure at all industrial areas may make the facility eligible for the "Conditional Exclusion for No Exposure" provision of 9 VAC 25-31-120 E, thereby eliminating the need to have a permit.

(iii) Preventive Maintenance.
The permittee shall have a preventive maintenance program that includes regular inspection, testing, maintenance and repairing of all industrial equipment and systems to avoid breakdowns or failures that could result in leaks, spill and other releases. This program is in addition to the specific BMP maintenance required under Part I.F.2.c. below (Maintenance of BMPs).

(iv) Spill Prevention and Response Procedures.
The plan shall describe the procedures that will be followed for preventing and responding to spills and leaks.

(A) Preventive measures include barriers between material storage and traffic areas, secondary containment provisions, and procedures for material storage and handling.

(B) Response procedures shall include notification of appropriate facility personnel, emergency agencies, and regulatory agencies, and procedures for stopping, containing and cleaning up spills. Measures for cleaning up hazardous material spills or leaks shall be consistent with applicable RCRA regulations at 40 CFR Part 264 and 40 CFR Part 265. Employees who may cause, detect or respond to a spill or leak shall be trained in these procedures and have necessary spill response equipment available. If possible, one of these individuals shall be a member of the Pollution Prevention Team.

(C) Contact information, or the location of contact information, for individuals and agencies that must be notified in the event of a spill shall be included in the SWPPP, and in other locations where it will be readily available.

(v) Routine Facility Inspections
Facility personnel who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at the facility, and who can also evaluate the effectiveness of BMPs shall quarterly inspect all areas of the facility where industrial materials or activities are exposed to storm water. These inspections are in addition to, or as part of, the comprehensive site evaluation required under section d. below (Comprehensive Site Compliance Evaluation). At least one member of the Pollution Prevention Team shall participate in the routine facility inspections.

The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit or written approval is received from the department for less frequent intervals. At least once each calendar year, the routine facility inspection must be conducted during a period when a storm water discharge is occurring.

Any deficiencies in the implementation of the SWPPP that are found shall be corrected as soon as practicable, but not later than within 90 days of the inspection, unless permission for a later date is granted in writing by the director. The results of the inspections shall be documented in the SWPPP, along with the date(s) and description(s) of any corrective actions that were taken in response to any deficiencies or opportunities for improvement that were identified.

(vi) Employee Training

The permittee shall implement a storm water employee training program for the facility. The SWPPP shall include a schedule for all types of necessary training, and shall document all training sessions and the employees who received the training. Training shall be provided for all employees who work in areas where industrial materials or activities are exposed to storm water, and for employees who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel, etc.). The training shall cover the components and goals of the SWPPP, and include such topics as spill response, good housekeeping, material management practices, BMP operation and maintenance, etc. The SWPPP shall include a summary of any training performed.

(vii) Sediment and Erosion Control

The plan shall identify areas at the facility that, due to topography, land disturbance (e.g., construction, landscaping, site grading), or other factors, have a potential for soil erosion. The permittee shall identify and implement structural, vegetative, and/or stabilization BMPs to prevent or control on-site and off-site erosion and sedimentation. Flow velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel if the flows would otherwise create erosive conditions.

(viii) Management of Runoff

The plan shall describe the storm water runoff management practices (i.e., permanent structural BMPs) for the facility. These types of BMPs are typically used to divert, infiltrate, reuse, or otherwise reduce pollutants in storm water discharges from the site.

Structural BMPs may require a separate permit under § 404 of the CWA and the Virginia Water Protection Permit Program Regulation (9VAC25-210) before installation begins.

c. Maintenance

All BMPs identified in the SWPPP shall be maintained in effective operating condition. Storm water BMPs identified in the SWPPP shall be observed during active operation (i.e., during a storm water runoff event) to ensure that they are functioning correctly. Where discharge locations are inaccessible, nearby downstream locations shall be observed. The observations shall be documented in the SWPPP.

The SWPPP shall include a description of procedures and a regular schedule for preventive maintenance of all BMPs, and shall include a description of the back-up practices that are in place should a runoff event occur while a BMP is off-line. The effectiveness of nonstructural BMPs shall also be maintained by appropriate means (e.g., spill response supplies available and personnel trained, etc.).

If site inspections required by Part I.F.2.b.(6)(b)(v) above (Routine Facility Inspections) and Part I.F.2.d. below (Comprehensive Site Compliance Evaluation) identify BMPs that are not operating effectively, repairs or maintenance shall be performed before the next anticipated storm event. If maintenance prior to the next anticipated storm event is not possible, maintenance shall be scheduled and accomplished as soon as practicable. In the interim, back-up measures shall be employed and documented in the SWPPP until repairs or maintenance is complete. Documentation shall be kept in a location specified in the SWPPP, of maintenance and repairs of BMPs, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair or replacement, and for repairs, date(s) that the BMP(s) returned to full function, and the justification for any extended maintenance or repair schedules.

d. Comprehensive Site Compliance Evaluation

The permittee shall conduct comprehensive site compliance evaluations at least once a year. The evaluations shall be done by qualified personnel who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at the facility, and who can also evaluate the effectiveness of BMPs. The personnel conducting the evaluations may be either facility employees or outside constituents hired by the facility.

(1) Scope of the Compliance Evaluation
Evaluations shall include all areas where industrial materials or activities are exposed to storm water, as identified in Part I.F.2.b.(3) above. The personnel shall evaluate:
(a) Industrial materials, residue or trash that may have or could come into contact with storm water;
(b) Leaks or spills from industrial equipment, drums, barrels, tanks or other containers that have occurred within the past three years;
(c) Off-site tracking of industrial or waste materials or sediment where vehicles enter or exit the site;
(d) Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas;
(e) Evidence of, or the potential for, pollutants entering the drainage system;
(f) Evidence of pollutants discharging to surface waters at all facility outfalls, and the condition of and around the outfall, including flow dissipation measures to prevent scouring;
(g) Review of training performed, inspections completed, maintenance performed, quarterly visual examinations, and effective operation of BMPs;
(h) Results of both visual and any analytical monitoring done during the past year shall be taken into consideration during the evaluation.

(2) Based on the results of the evaluation, the SWPPP shall be modified as necessary (e.g., show additional controls on the map required by Part I.F.2.b.(2)(c); revise the description of controls required by Part I.F.2.b(6) to include additional or modified BMPs designed to correct problems identified). Revisions to the SWPPP shall be completed within 30 days following the evaluation, unless permission for a later date is granted in writing by the director. If existing BMPs need to be modified or if additional BMPs are necessary, implementation shall be completed before the next anticipated storm event, if practicable, but not more than 60 days after completion of the comprehensive site evaluation, unless permission for a later date is granted in writing by the Department;

(3) Compliance Evaluation Report
A report shall be written summarizing the scope of the evaluation, name(s) of personnel making the evaluation, the date of the evaluation, and all observations relating to the implementation of the SWPPP, including elements stipulated in Part I.F.2.d.(1) (a) through (h) above. Observations shall include such things as: the location(s) of discharges of pollutants from the site; location(s) of previously unidentified sources of pollutants; location(s) of BMPs that need to be maintained or repaired; location(s) of failed BMPs that need replacement; and location(s) where additional BMPs are needed. The report shall identify any incidents of noncompliance that were observed. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the SWPPP and this permit. The report shall be signed in accordance with Part II.K. and maintained with the SWPPP.

(4) Where compliance evaluation schedules overlap with routine inspections required under Part I.F.2.b(6)(b)(v), the annual compliance evaluation may be used as one of the routine inspections.

e. Signature and Plan Review

(1) Signature/Location
The SWPPP shall be signed in accordance with Part II.K., dated, and retained on-site at the facility covered by this permit in accordance with Part II.B.2. All other changes to the SWPPP, and other permit compliance documentation, must be signed and dated by the person preparing the change or documentation.

(2) Availability
The permittee shall make the SWPPP, annual site compliance evaluation report, and other information available to the Department upon request.

(3) Required Modifications
The director may notify the permittee at any time that the SWPPP, BMPs, or other components of the facility's storm water program do not meet one or more of the requirements of this permit. The notification shall identify specific provisions of the permit that are not being met, and may include required modifications to the storm water program, additional monitoring requirements, and special reporting requirements. The permittee shall make any required changes to the SWPPP within 60 days of receipt of such notification, unless permission for a later date is granted in writing by the director, and shall submit a written certification to the director that the requested changes have been made.

f. Maintaining an Updated SWPPP

(1) The permittee shall review and amend the SWPPP as appropriate whenever:
(a) There is construction or a change in design, operation, or maintenance at the facility that has a significant effect on the discharge, or the potential for the discharge, of pollutants from the facility;
(b) Routine inspections or compliance evaluations determine that there are deficiencies in the BMPs;
(c) Inspections by local, state, or federal officials determine that modifications to the SWPPP are necessary;
(d) There is a spill, leak or other release at the facility; or
(e) There is an unauthorized discharge from the facility.

(2) SWPPP modifications shall be made within 30 calendar days after discovery, observation or event requiring a SWPPP modification. Implementation of new or modified BMPs (distinct from regular preventive maintenance of existing BMPs described in Part I.F.2.b(6)(b)(iii)) shall be initiated before the next storm event if possible, but no later than 60 days after discovery, or as otherwise provided or approved by the Director. The amount of time taken to modify a BMP or implement additional BMPs shall be documented in the SWPPP.

(3) If the SWPPP modification is based on a release or unauthorized discharge, include a description and date of the release, the circumstances leading to the release, actions taken in response to the release, and measures to prevent the recurrence of such releases. Unauthorized releases and discharges are subject to the reporting requirements of Part II.G. of this permit.

3. Sector-Specific SWPPP Requirements

In addition to the requirements of Part I.F.2., the SWPPP shall include, at a minimum, the following items:

a. Site Description.
Site Map. The site map shall identify the locations of any of the following activities or sources that may be exposed to precipitation/surface runoff: storage tanks, scrap yards, general refuse areas; short and long term storage of general materials (including, but not limited to: supplies, construction materials, plant equipment, oils, fuels, used and unused solvents, cleaning materials, paint, water treatment chemicals, fertilizer, and pesticides); landfills; construction sites; and stock pile areas (such as coal or limestone piles).

b. Storm Water Controls.

(1) Good Housekeeping Measures.
(a) Fugitive Dust Emissions. The permittee shall describe and implement measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize off-site tracking of coal dust such as installing specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.

(b) Delivery Vehicles. The plan shall describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee shall consider the following:
   (i) Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and
   (ii) Develop procedures to deal with leakage/spillage from vehicles or containers.

(c) Fuel Oil Unloading Areas. The plan shall describe measures that prevent or minimize contamination of precipitation/surface runoff from fuel oil unloading areas. At a minimum the permittee shall consider using the following measures, or an equivalent:
   (i) Use of containment curbs in unloading areas;
   (ii) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and
   (iii) Use of spill and overflow protection (e.g., drip pans, drip diapers, and/or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).

(d) Chemical Loading/Unloading Areas. The permittee shall describe and implement measures that prevent or minimize the contamination of precipitation/surface runoff from chemical loading/unloading areas. At a minimum the permittee shall consider using the following measures (or their equivalents):
   (i) Use of containment curbs at chemical loading/unloading areas to contain spills;
   (ii) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and
   (iii) Covering chemical loading/unloading areas, and storing chemicals indoors.

(e) Miscellaneous Loading/Unloading Areas. The permittee shall describe and implement measures that prevent or minimize the contamination of storm water runoff from loading and unloading areas. The permittee shall consider the following, at a minimum (or their equivalents):
   (i) covering the loading area;
   (ii) grading, berming, or curbing around the loading area to divert run-on; or
   (iii) locating the loading/unloading equipment and vehicles so that leaks are contained in existing containment and flow diversion systems.

(f) Liquid Storage Tanks. The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from aboveground liquid storage tanks. At a minimum the permittee shall consider employing the following measures (or their equivalents):
   (i) Use of protective guards around tanks;
   (ii) Use of containment curbs;
   (iii) Use of spill and overflow protection; and
   (iv) Use of dry cleanup methods.

(g) Large Bulk Fuel Storage Tanks. The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from large bulk fuel storage tanks. At a minimum the permittee shall consider employing containment berms (or its equivalent). The permittee shall also comply with applicable state and federal laws, including Spill Prevention Control and Countermeasures (SPCC).

(h) Spill Reduction Measures. The permittee shall describe and implement measures to reduce the potential for an oil/chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all aboveground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(i) Oil bearing Equipment in Switchyards. The permittee shall describe and implement measures to prevent or minimize contamination of surface runoff from oil bearing equipment in switchyard areas. The permittee shall consider the use of level grades and gravel surfaces to retard flows and limit the spread of spills, and the collection of storm water runoff in perimeter ditches.

(j) Residue Hauling Vehicles. All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the container body. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds shall be repaired as soon as practicable.

(k) Ash Loading Areas. The permittee shall describe and implement procedures to reduce or control the tracking of ash/residue from ash loading areas where practicable, clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water before departure of each loaded vehicle.

(l) Areas Adjacent to Disposal Ponds or Landfills. The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee shall develop procedures to:

(i) Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and

(ii) Reduce ash residue on exit roads leading into and out of residue handling areas.

(m) Landfills, Scrapyards, Surface Impoundments, Open Dumps, General Refuse Sites. The plan shall address and include appropriate BMPs for landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(n) Vehicle Maintenance Activities. For vehicle maintenance activities performed on the plant site, the permittee shall use the applicable BMPs outlined in Sector P (Land Transportation and Warehousing).

(o) Material Storage Areas. The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay-down areas). The permittee shall consider the use of the following measures (or their equivalents): flat yard grades; runoff collection in graded swales or ditches; erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins); covering lay-down areas; storing materials indoors; and covering materials temporarily with polyethylene, polyurethane, polypropylene, or hypalon. Storm water run-on may be minimized by constructing an enclosure or building a berm around the area.

(2) Comprehensive Site Compliance Evaluation. As part of the evaluation, qualified facility personnel shall inspect the following areas on a quarterly basis: coal handling areas, loading/unloading areas, switchyards, fueling areas, bulk storage areas, ash handling areas, areas adjacent to disposal ponds and landfills, maintenance areas, liquid storage tanks, and long term and short term material storage areas.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.

2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.

3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records

1. Records of monitoring information shall include:
   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) and time(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Department of Environmental Quality
   Valley Regional Office
   P.O. Box 3000
   Harrisonburg, Virginia 22801

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of State waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into State waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or

2. Otherwise alter the physical, chemical or biological properties of such State waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon State waters in violation of Part II.F.; or who discharges or causes or allows a discharge that may reasonably be expected to enter State waters in violation of Part II.F., shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter State waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect State waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:

   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:

   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I. if the oral report has been received within 24 hours and no adverse impact on State waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II.I.1. or 2., in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II.G, H, and I may be made to the Department's Valley Regional Office at (540) 574-7800 (voice) or (540) 574-7878 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
      (1) After promulgation of standards of performance under Section 306 of the Clean Water Act which are applicable to such source; or
      (2) After proposal of standards of performance in accordance with Section 306 of the Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;
   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. Applications. All permit applications shall be signed as follows:

   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
   b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
   c. For a municipality, State, Federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part II.K.1.;
   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
   c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II.K.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2. shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II.K.1. or 2. shall make the following certification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply
The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply
If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit
This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of Federal, State or local law or regulations.

O. State Law
Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other State law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U.), and "upset" (Part II.V.) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance
The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges
Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering State waters.

S. Duty to Mitigate
The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense
It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass
1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II.U.2. and U.3.

2. Notice

   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.

3. Prohibition of bypass

   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
      (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
      (3) The permittee submitted notices as required under Part II.U.2.
   b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2. are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   a. An upset occurred and that the permittee can identify the cause(s) of the upset;
   b. The permitted facility was at the time being properly operated;
   c. The permittee submitted notice of the upset as required in Part II.I.; and
   d. The permittee complied with any remedial measures required under Part II.S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of Permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II.Y.1., this permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

COMMONWEALTH of VIRGINIA

STATE WATER CONTROL BOARD
2111 Hamilton Street

R V Davis P E
Executive Director

Post Office Box 11143
Richmond Virginia 23230
(804) 257 0056

Obsolete

Permit No	VA0004081
Effective Date	January 11, 1975
Reissuance Date	August 3, 1982
Expiration Date	December 31, 1982

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

1 In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U S C 1251 et seq , the "Act"), and pursuant to Section 62 1-44 2 et seq , of the Code of Virginia, of 1950, as amended, and regulations adopted pursuant thereto, Virginia Electric and Power Company, Portsmouth Power Station
is authorized to discharge from a facility located at Vepco Street, Chesapeake, Virginia

to receiving waters named Deep Creek (001 and 002), Southern Branch of the Elizabeth River (003-009), James River (Lower) Basin, Section 1d, Class II, Special Standard a
in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, and III of this permit

2 Design and operation of facilities and/or treatment works and disposal of all wastes shall be in accordance with the application dated April 3, 1981 filed with the State Water Control Board and in conformity with the conceptual design, or the plans, specifications and/or other supporting data submitted to the Board The facilities shall be operated in accordance with the approval of the State Water Control Board by memorandum number 8870-S

3 The approval of the treatment works conceptual design or the plans and specifications does not relieve the permittee of the responsibility of designing and operating the facility in a reliable and consistent manner to meet the facility performance requirements in the permit If facility deficiencies, design and/or operational, are identified in the future which could affect the facility performance or reliability, it is the responsibility of the permittee to correct such deficiencies

R V Davis

Executive Director, State Water Control Board

AUG 3 1982

Date

PART I

A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1 During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 001 (Condenser cooling water)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS kg/day		DISCHARGE LIMITATIONS Other Units (Specify)		MONITORING REQUIREMENTS	
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-M^3/Day (MGD)	No limit, however, reporting is required				continuous	recorded
Heat Rejection				3 55x10^9 BTU/hr	continuous	recorded
Temperature*			*		*	*
Free Available Chlorine	436	1089	0 2 mg/l	0 5 mg/l	1/week/unit	grab (during chlorination)
Total Residual Chlorine	No limit, however, reporting is required				1/week/unit	grab (during chlorination)

*See Special Condition No 5

2 The discharge shall have a pH value between 6 0 and 8 5 at all times and shall be monitored 1/week by a grab sample

3 There shall be no discharge of floating solids or visible foam in other than trace amounts.

4 Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s) outfall 001

A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 002 (Ash pond effluent)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS kg/day		DISCHARGE LIMITATIONS Other Units (Specify)		MONITORING REQUIREMENTS	
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-M^3/Day (MGD)	No limit, however, reporting is required				2/month	measured
Total Suspended Solids	836	2788	30 mg/l	100 mg/l	2/month	grab
*Total Suspended Solids	1040	3468	30 mg/l	100 mg/l	2/month	grab
Oil and Grease	418	557	15 mg/l	20 mg/l	2/month	grab
*Oil and Grease	520	694	15 mg/l	20 mg/l	2/month	grab
Fecal Coliform	No limit, however, reporting is required				2/month	grab

*Limitations and montioring requirements are applicable only during metal cleaning basin discharge

2 The discharge shall have a pH value between 6 0 and 8 5 at all times and shall be monitored 2/month by a grab sample

3 There shall be no discharge of floating solids or visible foam in other than trace amounts.

4 Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s) outfall 002

A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1 During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 003 (coal pile drainage)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS kg/day		DISCHARGE LIMITATIONS Other Units (Specify)		MONITORING REQUIREMENTS	
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-M^3/Day (MGD)	No limit, however, reporting is required				2/month	estimate
Total Suspended Solids				50 mg/l	2/month	grab

Note Any untreated overflow from facilities designed, constructed and operated to treat the volume of runoff associated with the 10 year, 24 hour rainfall event for this location, as defined by the National Weather Service in Technical Paper No 40 "Rainfall Frequency Atlas of the United States", May 1961 and subsequent amendments or equivalent regional or state rainfall probability information developed therefrom, is not subject to these limitations

2 The discharge shall have a pH value between 6 0 and 8 5 at all times and shall be monitored 2/month by a grab sample

3 There shall be no discharge of floating solids or visible foam in other than trace amounts.

4 Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s) outfall 003

PART I

A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1 During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 004, 005 (Intake screens washwater)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS kg/day		DISCHARGE LIMITATIONS Other Units (Specify)		MONITORING REQUIREMENTS	
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-M^3/Day (MGD)	No limits				*	*

*The only authorized discharge from these outfalls is intake backwash No monitoring or reporting is required

2. The discharge shall have a pH value between NA and NA at all times and shall be monitored NA

3 There shall be no discharge of floating solids or visible foam in other than trace amounts.

4 Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s) NA

PART I

A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1 During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 006 (Fish return line)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	kg/day		Other Units (Specify)			
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-M^3/Day (MGD)	No limits				*	*

*The only authorized discharge from this outfall is fish return water (river water only) No monitoring or reporting is required

2 The discharge shall have a pH value between NA and NA at all times and shall be monitored NA

3 There shall be no discharge of floating solids or visible foam in other than trace amounts.

4 Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s) NA

A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1 During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 007, 008 and 009 (River recirculation)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	kg/day		Other Units (Specify)			
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-M^3/Day (MGD)	No limits				*	*

*The only authorized discharge from these outfalls is river recirculation pit sumps
No monitoring or reporting is required

2 The discharge shall have a pH value between NA and NA at all times and shall be monitored NA

3 There shall be no discharge of floating solids or visible foam in other than trace amounts.

4 Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s) NA

A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 101 (Demineralizer waste)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS kg/day		DISCHARGE LIMITATIONS Other Units (Specify)		MONITORING REQUIREMENTS	
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-M^3/Day (MGD)	No limit, however, reporting is required				2/month	estimate
Total Suspended Solids	14	46	30 mg/l	100 mg/l	2/month	grab
Oil & Grease	7	9	15 mg/l	20 mg/l	2/month	grab

2 The discharge shall have a pH value between NA and NA at all times and shall be monitored NA

3 There shall be no discharge of floating solids or visible foam in other than trace amounts.

4 Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s) outfall 101

A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1 During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 201 (Metals treatment basin)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS kg/day		DISCHARGE LIMITATIONS Other Units (Specify)		MONITORING REQUIREMENTS	
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-M^3/Day (MGD)	No limit, however, reporting is required				1/discharge	measured
Total Iron		7		1 mg/l	1/discharge	grab
Total Copper		7		1 mg/l	1/discharge	grab

2 The discharge shall have a pH value between NA and NA at all times and shall be monitored NA

3 There shall be no discharge of floating solids or visible foam in other than trace amounts.

4 Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s) outfall 201

PART I

A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 202 (Unit 1 boiler blowdown)
203 (Unit 2 boiler blowdown)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS kg/day		DISCHARGE LIMITATIONS Other Units (Specify)		MONITORING REQUIREMENTS	
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-M^3/Day (MGD)	No limit, however, reporting is required				2/month	estimate
Total Iron	0 16			1 mg/l	2/month	grab
Total Copper	0 16			1 mg/l	2/month	grab

2 The discharge shall have a pH value between NA and NA at all times and shall be monitored NA

3 There shall be no discharge of floating solids or visible foam in other than trace amounts.

4 Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s) 202 and 203 prior to mixing with any other waste stream

PART I

A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 204 (Unit 3 boiler blowdown) 205 (Unit 4 boiler blowdown)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS kg/day Monthly Avg	kg/day Daily Max	Other Units (Specify) Monthly Avg	Other Units (Specify) Daily Max	MONITORING REQUIREMENTS Measurement Frequency	Sample Type
Flow-M^3/Day (MGD)	No limit, however, reporting is required				2/month	estimate
Total Iron	0 22			1 mg/l	2/month	grab
Total Copper	0 22			1 mg/l	2/month	grab

2. The discharge shall have a pH value between NA and NA at all times and shall be monitored NA

3 There shall be no discharge of floating solids or visible foam in other than trace amounts.

4 Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s) 204, and 205, prior to mixing with any other waste stream

A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1 During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 206 (Sewage)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS kg/day		DISCHARGE LIMITATIONS Other Units (Specify)		MONITORING REQUIREMENTS	
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-M^3/Day (MGD)	No limit, however, reporting is required				2/month	estimate
Fecal Coliform			200 N/100 ml	400 N/100 ml	2/month	grab
Chlorine Residual		Minimum of 1 5 mg/l			2/month	grab

2 The discharge shall have a pH value between NA and NA at all times and shall be monitored NA

3 There shall be no discharge of floating solids or visible foam in other than trace amounts.

4 Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s) outfall 206

5 **Other Requirements or Special Conditions**

a Debris collected on the intake trash racks shall not be returned to the waterway

b There shall be no direct discharge of solids from clarification water treatment

c Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the Board that the units in a particular location cannot operate at or below this level of chlorination

d The permittee shall comply with State Water Quality Standards outside the thermal mixing zone as shown in the Consent Order executed between the Board and Vepco on August 11, 1977 The results of the detailed biological and thermal monitoring study required by the previously cited Consent Order shall be utilized by the Board in making a final determination of the size of the mixing zone that can be allowed

Permit file

MEMORANDUM

State Water Control Board

2111 North Hamilton Street

P O Box 11143

Richmond VA 23230

RECD JUL 2 - 198

Rec'd TRO Aug 6, '8

SUBJECT	Virginia Electric and Power Company Portsmouth Power Station Reissuance - NPDES Permit No VA0004081
TO	Executive Director
FROM	Director, Bureau of Applied Technology
DATE	July 26, 1982
COPIES	TRO

Legal Name of Owner

Virginia Electric and Power Company
P O Box 26666
Richmond, VA 23261

Application Submitted By

Morris L Brehmer, Ph D
Executive Manager - Environmental Services

Application Date

The original application was submitted on December 30, 1980 After receiving additional information, the application was deemed complete on February 23, 1982

Type of Discharge

Existing Industrial Discharge

Manufacturing Operation (SIC Code 4911)

This industry is engaged in the production of electricty using steam, powered by combustion of fossil fuels

Wastewater Treatment Facilities

Outfall 001 Consists of condenser cooling water and is discharged through a canal to Deep Creek Demineralizer wastes (101) also discharge through this outfall

Outfall 002 Consists of ash pond wastewater The ash pond receives ash and sluice water, metals treatment basin (201) effluent, carbon filter backwash, and the oily waste treatment basin effluent The ash pond provides flow equalization and sedimentation prior to discharge to Deep Creek

Outfall 003 Coal pile drainage This discharge receives some sedimentation prior to discharge

Outfalls 004 and 005 Intake screens washwater River water is used to backwash the intake screens No treatment is provided

Continued

CONCURRENCES

SYMBOL	TRO	TRO	TRO	BAT	BAT	Bat		
SURNAME	Marshall	Woodfin	[illegible]	Smith	Elkins	Carlson		
DATE	7-15-82	7/16/82	7-16-82	7/29/82	7/29/82	7/30/82		

Outfall 006 Fish return line This system allows fish impinged on the intake screens to be returned to the river alive, using river water No treatment is provided

Outfalls 007, 008 and 009 River recirculation pit sumps River water is used to cool and lubricate condenser cooling water intake pumps Leakage is collected in these sumps and pumped back to the river uncontaminated No treatment is provided

Outfall 101 Demineralizer wastewater is discharged to the cooling water canal (001) where it receives some pH adjustment prior to discharge

Outfall 201 Metals treatment basin This basin receives boiler cleaning wastewater Metals are removed by mixing, chemical precipitation and neutralization Treated wastewater is discharged into the ash pond (002)

Outfalls 202, 203, 204 and 205 Boiler blowdown Boiler blowdown from the 4 generating units are discharged via these 4 outfalls into the oily waste treatment basin for skimming prior to being conveyed to the ash pond (002)

Outfall 206 Sewage receives sedimentation, anaerobic treatment and chlorination prior to discharging to the oily waste treatment basin, and thence to the ash pond (002)

Receiving Stream

Stream	Deep Creek (001 and 002), Southern Branch of the Elizabeth River (003-009)
Basin	James River (Lower)
Subbasin	None
Section	1d
Class	II
Special Standard(s)	a

Public Notice

The application has received public notice in accordance with Regulation 6 and responses to the public notice indicated that the discharge is not of a controversial nature

Continued

Planning	This discharge is in conformance with the Hampton Roads Water Quality Management (208) Plan
EPA Comments	EPA has no objections to the adequacy of the draft permit
COE Comments	No special conditions were received from the Corps of Engineers relative to this permit
Previous Board Action	The Board issued a Special Consent Order to Vepco on August 11, 1977 requiring a study to determine the appropriate size for a thermal mixing zone for outfall 001 The staff has not yet made a final determination on this matter
Staff Comments	The existing discharges are not controversial and are currently meeting the required effluent limitations The staff has notified all appropriate government agencies of the proposed permit requirements and has provided each agency an opportunity to comment in accordance with Regulation 6 The staff believes the attached effluent limitations will maintain the Water Quality Standards adopted by the Board NPDES Permit No VA0004081, which was issued on January 11, 1975, and was to expire on September 30, 1980, was Administratively Continued on October 1, 1981
Certified Operator Requirements	The staff believes that a Class III operator is required at this facility The Company presently employs a Class III and two class IV operators

STAFF RECOMMENDATIONS

The staff recommends that the Executive Director

1 Approve the attached effluent limitations and monitoring requirements (Cover Page, Part I, DMR's)

2 Direct the staff to reissue VA-NPDES Permit No VA0004081

DAM dak

APPROVED BY _____
Executive Director

_____
Date

 MFK- DISTRIBUTE AS NEEDED WITH SUMMARY OF CHANGES.

CEC
COR 14
Permits
M.F.K.

NOTED APR 24 1995 M.F.K.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

PETER W. SCHMIDT
DIRECTOR

FRANCIS L. DANIEL
REGIONAL DIRECTOR

TIDEWATER REGIONAL OFFICE
287 INDEPENDENCE BOULEVARD
PEMBROKE TWO, SUITE 310
VIRGINIA BEACH, VIRGINIA 23462
(804) 552-1840
FAX (804) 552-1849 TDD # - RICHMOND (804) 762-4021

NOTED APR 24 1995 B.M.M.

April 17, 1995

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. W. R. Cartwright
Vice President
Virginia Power
5000 Dominion Boulevard
Glen Allen, VA 23060

RE: Reissuance of VPDES Permit No. VA0004081
Virginia Power - Chesapeake Energy Center, Chesapeake, VA

Dear Mr. Cartwright:

The enclosed effluent limitations and monitoring requirements for the above referenced permit have been approved. This approval is in accordance with the enclosed memorandum.

Your permit is also enclosed. In accordance with the permit, you are required to submit monitoring reports to the following address:

Department of Environmental Quality (DEQ)
Tidewater Regional Office
287 Pembroke Office Park
Pembroke No. 2, Suite 310
Virginia Beach, VA 23462

The reporting forms are included with the permit. You will be responsible for obtaining additional copies of the reporting forms. The first reports (DMR's) are due for the month of June 1995 by July 10, 1995.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality.

In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under Section 62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in Section 1.23(b) of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

If you have any additional questions, please do not hesitate to contact us.

Sincerely,

Robert P. Goode

Robert P. Goode
Water Permits Supervisor

MHS/dem

cc: DEQ - TRO File, OWRM
EPA - Region III (3WM53)

Enclosures: Memorandum
Permit No. VA0004081

MEMORANDUM

Department of Environmental Quality
Tidewater Regional Office

287 Pembroke Office Park
Pembroke No. 2, Suite 310 **Virginia Beach, VA 23462**

TRO-574
SUBJECT: Reissuance of VPDES Permit No. VA0004081
Virginia Power - Chesapeake Energy Center
Chesapeake, VA

TO: Frank Daniel, Regional Director

FROM: R. P. Goode, Water Permits Supervisor

DATE: April 14, 1995

COPIES: TRO, OWRM, EPA-Region III

Legal Name of Owner: Virginia Electric and Power Company
5000 Dominion Boulevard
Glen Allen, VA 23060

Application Submitted By: Mr. W. R. Cartwright
Vice President

Application Date: The initial application was received on July 12, 1994. The date of complete application was August 17, 1994, upon receipt of Virginia Department of Health comments.

Type of Discharge: Existing Industrial Discharge - Outfalls 001 - 018, 101 and 201

Existing Municipal Sewage Discharge - Outfall 206

Manufacturing Operation: (SIC Code 4911) The manufacturing operation consists of the generation of electricity with steam produced by the combustion of coal.

Wastewater is the result of cooling water, process wastewaters, metals cleaning, sewage treatment, fish return lines, river recirculation pits, demineralizer wastes, regulated stormwater from industrial areas and non-regulated stormwater from areas not associated with industrial activity.

Wastewater Treatment Facilities: Wastewater treatment facilities consist of sedimentation, anaerobic treatment and disinfection for sewage discharges, and mixing, neutralization and chemical precipitation for ash sluice and metals cleaning wastes.

Receiving Streams:

Outfalls: 001, 002, 013, 015 and 018

Stream:	Deep Creek to the Southern Branch of the Elizabeth River
Basin:	James River (Lower)
Subbasin:	N/A
Section:	1d
Class:	II
Special Standard(s):	a

Outfalls: 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 014, 016, and 017

Stream:	Southern Branch of the Elizabeth River
Basin:	James River (Lower)
Subbasin:	N/A
Section:	1d
Class:	II
Special Standard(s):	a

Public Notice: The application and draft permit have received public notice in accordance with the Permit Regulation and no comments were received.

Planning: The discharge is not addressed in any planning document but will be included when the plan is updated.

EPA Comments: EPA has no objections to the adequacy of the draft permit.

VDH Comments: The Virginia Department of Health has no objections to the draft permit, as stated by letter dated December 21, 1994.

Comments of Adjacent States: Not Applicable.

Previous Board Action: None.

Staff Comments: This facility's VPDES Permit was previously reissued on May 9, 1990 and will expire on May 9, 1995.

This permit was issued beyond the 120-day processing time allowed. Delays incurred are attributed to the following:

1. Resolution of owner comments.

2. Internal delays.

Significant changes from the previous permit include:

1. Deletion of compliance schedule for phosphorus limit; limit is now in effect.

2. Deletion of mass limitations on outfall 002 due to long retention times and highly variable flows.

3. Inclusion of additional monitoring on stormwater outfalls in accordance with stormwater regulations and Agency guidance.

4. Reduction in monitoring frequencies for several parameters based on review of past data.

5. Inclusion of Stormwater Management and Water Quality Monitoring special conditions based on Agency guidance.

The discharge is not controversial and is currently meeting the required effluent limitations.

The staff believes that the attached effluent limitations will maintain the Water Quality Standards adopted by the Board.

Basis for Effluent Limits: Effluent limitations are based on Federal effluent guidelines, State water quality standards and best engineering judgement.

Licensed Operator Requirements: The staff believes that a Class III wastewater operator is required.

STAFF RECOMMENDATIONS:

The staff recommends that the Regional Director approve for the Director:

1. The attached effluent limitations and monitoring requirements.

2. The reissuance of VPDES Permit No. VA0004081.

MHS/dem

COMMONWEALTH of VIRGINIA

PETER W. SCHMIDT
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL QUALITY

FRANCIS L. DANIEL
REGIONAL DIRECTOR

TIDEWATER REGIONAL OFFICE
287 INDEPENDENCE BOULEVARD
PEMBROKE TWO, SUITE 310
VIRGINIA BEACH, VIRGINIA 23462
(804) 552-1840
FAX (804) 552-1849 TDD # - RICHMOND (804) 762-4021

Permit No.: VA0004081
Effective Date: May 9, 1995
Expiration Date: May 9, 2000

AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in this permit.

Owner: Virginia Electric & Power Company
Facility Name: Virginia Power - Chesapeake Energy Center
City: Chesapeake
County: N/A
Facility Location: Vepco Street, Chesapeake, VA 23323

The owner is authorized to discharge to the following receiving stream:

Stream: SEE ATTACHMENT I
River Basin:
River Subbasin:
Section:
Class:
Special Standards:

The authorized discharge shall be in accordance with this cover page, Part I - Effluent Limitations and Monitoring Requirements, Part II - Monitoring and Reporting Requirements, and Part III - Management Requirements, as set forth herein.

Francis L. Daniel for
Director, Department of Environmental Quality

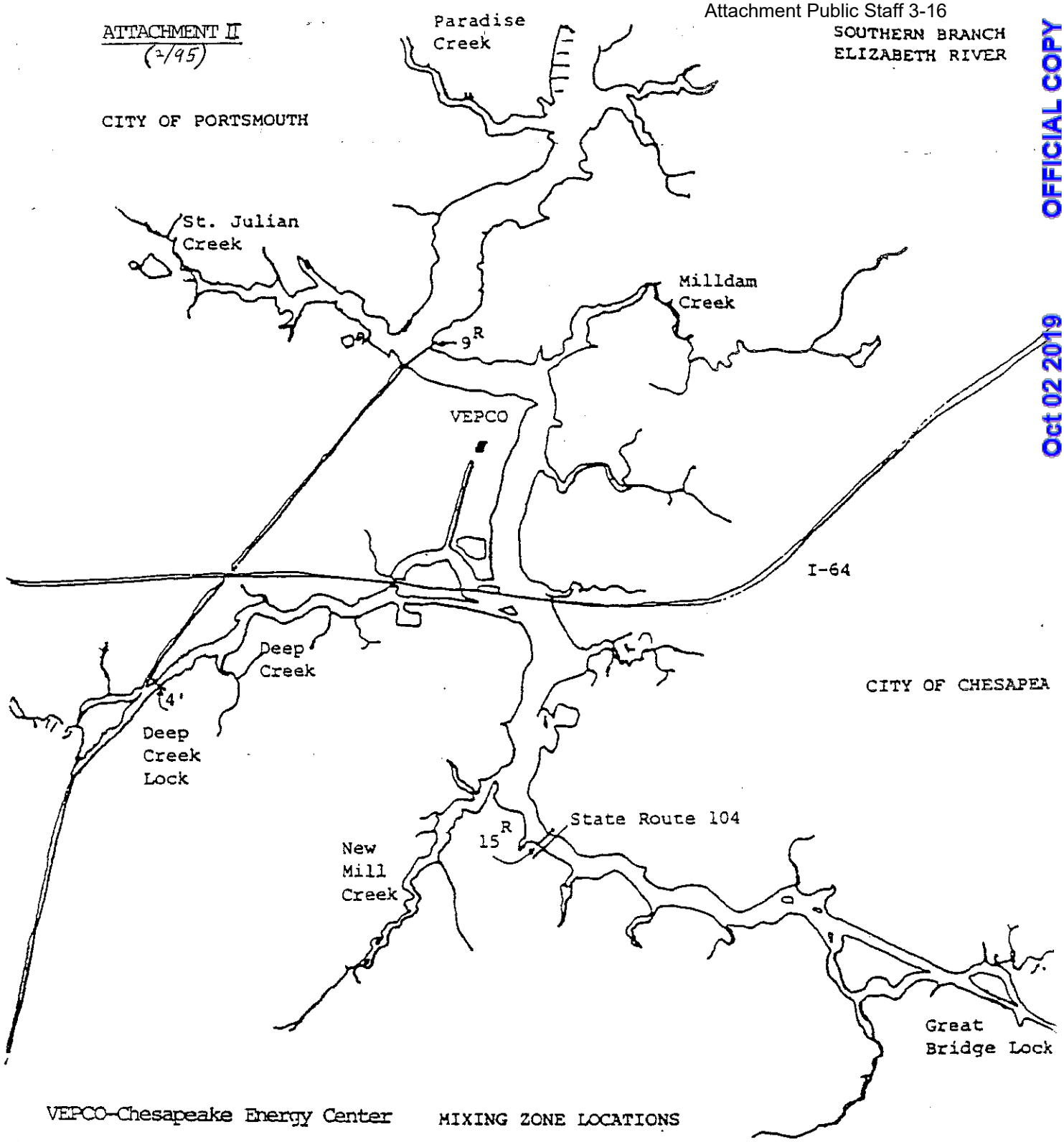
April 14, 1995
Date

Permit No. VA0004081

ATTACHMENT I

Outfall No(s).	Receiving Stream
001, 002, 013, 015 and 018	Deep Creek to the Southern Branch of the Elizabeth River Basin: James River (Lower) Subbasin: N/A Section: 1d Class: II Special Standard: a
003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 014, 016 and 017	Southern Branch of the Elizabeth River Basin: James River (Lower) Subbasin: N/A Section: 1d Class: II Special Standard: a

ATTACHMENT II
(2/95)



VEPCO-Chesapeake Energy Center MIXING ZONE LOCATIONS

Transect	Latitude North	Longitude West	Transect Direction	Available Landmarks
15R	36° 44' 10"	76° 17' 45"	SW to NE	This transect parallels State Route 104.
9R	36° 46' 42"	76° 18' 30"	SW to NE	This transect follows a southwest line from green day marker # GC17.
4'	36° 44' 58"	76° 20' 10"	NW to SE	This transect is on Deep Creek approximately 100 yards downstream of the convergence of Deep Creek and and the abandoned Gilmerton-Deep Creek Canal

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 001 (combined discharge from condenser cooling water, internal outfall 101 [demineralizer wastes] and reverse osmosis water [intermittent]).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Day	Estimate
pH (S.U.)	NA	NA	6.0	9.0	1/Week	Grab
Total Residual Chlorine (mg/l) [b]	NA	NA	NA	Non-detectable	1/Week	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	2/Month	Grab
Total Nitrogen (mg/l)	NL	NA	NA	NA	2/Month	Grab
Temperature (°C)	NA	NA	NA	[a]	1/Year	[a]
Heat Rejection (BTU/HR)	3.55×10^9	NA	NA	NA	Continuous	Recorded

NA = Not Applicable
NL = No limit, however, reporting is required
[a] See Part I.C.8.
[b] See Parts I.B. and I.C.3. Effluent limitations for total residual chlorine shall be in effect only during chlorination.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
3. See Water Quality Monitoring Condition for appropriate quantification levels.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 002 (ash pond; sources include internal outfalls 201 [metals treatment basin] and 206 [sewage], and boiler cleaning [intermittent].

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	2/Month	Estimate
pH (S.U.)	NA	NA	6.0	9.0	2/Month	Grab
Total Suspended Solids (mg/l)	30	NA	NA	100	2/Month	Grab
Oil and Grease (mg/l)	15	NA	NA	20	2/Month	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	2/Month	Grab
Total Nitrogen (mg/l)	NL	NA	NA	NA	2/Month	Grab
Total Residual Chlorine (mg/l)	NL	NA	NA	NL	1/3 Months	Grab

NA = Not Applicable
NL = No limit, however, reporting is required
1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
3. See Water Quality Monitoring Condition for appropriate quantification levels.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 003 (regulated stormwater discharge from coal pile runoff).

   Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NL	1/6 Months	Estimate [a]
Oil & Grease (mg/l)	NA	NL	1/6 Months	Grab [b]
Total Suspended Solids (mg/l)	NA	50	1/6 Months	Grab
pH (S.U.)	6.0	9.0	1/6 Months	Grab
Dissolved Copper (ug/l) [c]	NA	NL	1/6 Months	Grab
Dissolved Nickel (ug/l) [c]	NA	NL	1/6 Months	Grab
Dissolved Zinc (ug/l) [c]	NA	NL	1/6 Months	Grab

NL = No limit, however, reporting is required
NA = Not Applicable
1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).
[a] Estimate of the total volume of the discharge during the storm event.
[b] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.
[c] Monitoring shall be initiated two years after the effective date of the permit.

2. Any untreated overflow from facilities designed, constructed and operated to treat the volume of coal pile runoff which is associated with a 10-year, 24-hour rainfall event shall not be subject to the 50 mg/l limitation for total suspended solids.
3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 004 and 005 (screen backwash units); 006 and 014 (fish return lines); and 007, 008 and 009 (river recirculation pits).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	THESE DISCHARGES SHALL ONLY CONTAIN RIVER WATER FROM THE SCREEN BACKWASH UNITS, FISH RETURN LINES AND RIVER RECIRCULATION PITS. NO PROCESS WATER SHALL BE DISCHARGED FROM THESE OUTFALLS.					

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 010 (process wastewater and stormwater).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NA	NA	NA	NL	1/6 Months	Estimate
pH (S.U.)	NA	NA	6.0	9.0	1/6 Months	Grab
Total Suspended Solids (mg/l)	NA	NA	NA	NL	1/6 Months	Grab
Oil & Grease (mg/l)	NA	NA	NA	NL	1/6 Months	Grab
Dissolved Copper (ug/l) [a]	NA	NA	NA	NL	1/6 Months	Grab
Dissolved Nickel (ug/l) [a]	NA	NA	NA	NL	1/6 Months	Grab
Dissolved Zinc (ug/l) [a]	NA	NA	NA	NL	1/6 Months	Grab

NA = Not Applicable
NL = No limit, however, reporting is required
1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31)
[a] Monitoring shall be initiated two years after the effective date of the permit.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
3. See Water Quality Monitoring Condition for appropriate quantification levels.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 011, 016 and 017 (regulated stormwater).

   Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NL	1/Year	Estimate [a]
Oil & Grease (mg/l)	NA	NL	1/Year	Grab [b]
Total Suspended Solids (mg/l)	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [c]	NA	NL	1/Year	Grab
Dissolved Nickel (ug/l) [c]	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [c]	NA	NL	1/Year	Grab
pH (S.U.)	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required
NA = Not Applicable
[a] Estimate of the total volume of the discharge during the storm event.
[b] The grab sample shall be taken within the first hour but not later than three hours of the discharge.
[c] Monitoring shall be initiated two years after the effective date of the permit.

2. All samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event.
3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 012 (stormwater from bermed oil storage tank area).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS [a]	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
pH (S.U.) [b]	NA	NA	6.0	9.0	1/Month	Grab
Oil & Grease (mg/l)	30	NA	NA	NA	1/Month	Grab
Total Petroleum Hydrocarbons (TPH) (mg/l) [c]	NL	NA	NA	NA	1/Year	Grab

NA = Not Applicable
NL = No limit, however, reporting is required
[a] See Part I.C.10.
[b] The discharge shall have a pH value between 6.0 and 9.0 standard units at all times and shall be monitored once per month by grab samples. If the rainfall pH value is less than 6.0 or greater than 9.0 standard units, then the effluent shall have a pH value within 0.5 minus or plus, respectively, of the rainfall pH value at all times. The pH of the rainfall most recently preceeding a discharge shall be used for comparison to the effluent pH.
[c] See Part I.C.9.

2. There shall be no discharge of tank bottom waters.
3. There shall be no discharge of floating solids or visible foam in other than trace amounts.
4. See Water Quality Monitoring Condition for appropriate quantification levels.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 013, 015 and 018 (stormwater outfalls not associated with regulated industrial activity).

   Such discharges shall be limited and monitored by the permittee as specified below:

   THESE OUTFALLS SHALL CONTAIN ONLY STORMWATER RUNOFF NOT ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY WHERE NO MONITORING IS REQUIRED. NO PROCESS WATER SHALL BE DISCHARGED FROM THESE OUTFALLS.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 201 (metals treatment basin at discharge sump).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	Monthly Average		Weekly Average	Minimum	Maximum		Frequency	Sample Type
Flow (MGD)	NL		NA	NA	NL		1/Discharge	Esimate
Total Suspended Solids (mg/l; kg/d)	30	170	NA	NA	100	568	1/Discharge	Grab
Oil & Grease (mg/l; kg/d)	15	85	NA	NA	20	114	1/Discharge	Grab
Total Copper (ug/l; kg/d)	1000	6	NA	NA	1000	6	1/Discharge	Grab
Total Iron (ug/l; kg/d)	1000	6	NA	NA	1000	6	1/Discharge	Grab

NA = Not Applicable
NL = No limit, however, reporting is required

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
3. See Water Quality Monitoring Condition for appropriate quantification levels.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 206 (sewage).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	2/Month	Estimate
Total Residual Chlorine (mg/l)	NA	NA	1.5	NL	2/Month	Grab
Fecal Coliform (N/CML)	NA	NA	NA	NL	1/3 Months	Grab

NA = Not Applicable
NL = No limit, however, reporting is required
1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
3. See Water Quality Monitoring Condition for appropriate quantification levels.

B. Final Total Residual Chlorine (TRC) Effluent Limitations and Monitoring Requirements

1. The TRC concentration in the final effluent from this facility shall be non-detectable. This TRC concentration shall be measured using one of the following procedures:

   a. DPD Titration
   b. DPD Colorimetric
   c. Iodate Back Titration (Starch)
   d. Amperometric Direct Titration
   e. Any proven and EPA accepted method that can reach an equal level of detection.

2. When the TRC concentration in the final effluent results in a detectable measurement, the permittee shall take immediate steps to achieve a non-detectable concentration. Where the TRC concentration is within the limit of B.3., the permittee shall also take up to two additional grab samples within one hour of the original sample. The first of these additional samples shall be taken within 45 minutes after the original sample. Should this TRC sample measurement indicate a non-detectable concentration, then the original sample shall be considered as being in compliance with the permit limit in B.1. Should this TRC sample measurement indicate a detectable concentration within the limit of B.3., then a second additional sample shall be taken within 15 minutes after the first additional sample, but within one hour of the original sample. If the second of these additional sample measurements indicates a non-detectable TRC concentration, then the original and the first additional sample shall be considered as being in compliance with the permit limitation in B.1. Should this second additional sample measurement indicate a detectable TRC concentration, then the original sample will be considered as exceeding the permit limitation in B.1. Should more than one sample be collected, only the original sample shall be considered for permit violation.

   The permittee shall **report all results** of the above monitoring scheme with the monthly Discharge Monitoring Reports (DMRs).

3. The instantaneous maximum TRC concentration in the final effluent shall not exceed 1.0 mg/l.

4. Where applicable, the permittee shall operate the dechlorination facilities in a manner which will ensure continuous compliance with the TRC concentration in B.1.,

but not to the extent that will result in violations of other permitted effluent characteristics, or the Water Quality Standards.

5. In the event that an alternative to chlorination as a disinfection method is chosen, then the TRC limitation shall no longer be required.

C. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1. Permit Reopeners

a. EPA Standard Reopener

This permit shall be modified or, alternatively, revoked and reissued to comply with any applicable effluent standard, limitation or prohibition for a pollutant which is promulgated or approved under Section 307(a)(2) of the Clean Water Act, if the effluent standard, limitation or prohibition so promulgated or approved:

(1) Is more stringent than any effluent limitation on the pollutant already in the permit; or

(2) Controls any pollutant not limited in the permit.

b. Nutrient Reopener

This permit shall be modified or, alternatively, revoked and reissued to include new or alternative nutrient limitations should the Board adopt nutrient standards for the Chesapeake Bay and tributary river basins, or if a future water quality regulation, statute, or water quality management plan requires new or alternative nutrient control.

c. Water Quality Reopener

Should effluent monitoring indicate the need for any water quality based limitation, this permit may be modified or, alternatively, revoked and reissued to incorporate appropriate limitations.

2. A class III operator is required at this permitted facility.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 101 (demineralizer regeneration wastes).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	2/Month	Estimate
Total Suspended Solids (mg/l)	30	NA	NA	100	2/Month	Grab
Oil and Grease (mg/l)	15	NA	NA	20	2/Month	Grab

NA = Not Applicable
NL = No limit, however, reporting is required

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
3. See Water Quality Monitoring Condition for appropriate quantification levels.

3. Chlorine

Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day, and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the permittee can demonstrate to the DEQ that the units in a particular location cannot operate at or below this level of chlorination.

4. Polychlorinated Biphenyl Compounds

There shall be no discharge of polychlorinated biphenyl compounds from this source in amounts equal to or greater than detectable by EPA test methods specified in Federal Register 40 CFR Part 136 Guidelines for Establishing Test Procedures for the Analysis of Pollutants.

5. Any untreated overflow from facilities designed, constructed and operated to treat the volume of coal pile runoff which results from a 10-year/24-hour rainfall event shall not be subject to the TSS limitation of 50 mg/l maximum concentration for outfall 003, at any time.

6. Sampling Methodology for Outfalls - 010, 011, 016 and 017

Due to the nature of the effluent discharged at these outfalls (contaminated stormwater associated with a regulated industrial activity), the following protocol shall be adhered to when obtaining samples required by Part I.A. of this permit:

a. Sampling for all parameters listed in Part I.A. of this permit shall be by a grab sample and obtained within the first hour but not later than three hours of the initiation of a discharge which results from a measurable storm event. A measurable storm event is defined as one which is greater than 0.1 inch of rainfall that occurs at least 72 hours from the previously measured (greater than 0.1 inch rainfall) storm event. The permittee shall preserve each sample in accordance with applicable EPA requirements.

b. All additional information required to be obtained during the storm event monitoring (as required by the Stormwater Management Plan) shall be recorded and reported with the Discharge Monitoring Reports

(DMR's). These items include date and duration of the storm event, the rainfall measurement and the duration between the storm event sampled and the end of the previous storm event.

c. At the time of sampling, the permittee shall ensure that the effects of tidal influences are kept to an absolute minimum. This can be achieved by:

(1) Sampling at low tide and/or

(2) Sampling at a representative point which has been demonstrated to be free of tidal influences

d. In the event that sampling of an outfall is not possible due to the absence of effluent flow during a particular testing period, the permittee shall provide **written notification to DEQ with the DMR for the month following the period in which samples were to be collected.**

7. Debris collected on intake trash racks and fish return lines shall not be returned to the water way.

8. The permittee shall comply with State Water Quality Standards outside the approved thermal mixing zone. The approved mixing zone is defined as a section of the Southern Branch of the Elizabeth River bounded on the south by State Route 104 (Lat. 36° 44' 10" N; Long. 76° 17' 45" W) on the north by the green day marker #GC17 (Lat. 36° 46' 42" N; Long. 76° 18' 30" W). Also included in this mixing zone is a section of Deep Creek from its mouth to a point 100 yards downstream of its convergence with the abandoned Gilmerton-Deep Creek Canal (Lat. 36° 44' 58" N; Long. 76° 20' 10" W). A map showing the approved mixing zone is incorporated in this permit. See Attachment II.

   Monitoring of this mixing zone shall take place once per year during the month of July or January. The monitoring results shall be presented as a temperature plot with 3° C. isotherms and will be taken as near to full plant operating conditions as reasonably possible. Results of the mixing zone **survey shall be submitted to DEQ** by **April 30 for surveys conducted in January** and by **October 31 for surveys conducted in July** of each year.

9. **Total petroleum hydrocarbons (TPH)** at outfall 012 shall be **monitored once per year** commencing within **60 days from the effective date of the permit.**

10. Sampling of oil and grease, TPH and pH for outfall 012 shall be conducted within the first hour of a discharge in each month. If this cannot be accomplished, the sample(s) shall be taken as soon as possible, but not later than 24 hours after the discharge commences.

11. Toxics Management Program (TMP)

a. Biological Monitoring

(1) In accordance with the monitoring and reporting schedule in 11.d. below, the permittee shall conduct toxicity tests on samples of final effluent, collected as in 11.b. below, from outfalls 001, 002, 003, 012 and 016 as follows:

(a) Outfalls 001 and 002: The permittee shall perform annual acute and chronic toxicity tests with *Mysidopsis bahia*.

(b) Outfalls 003 and 012: The permittee shall perform annual acute toxicity tests using *M. bahia*.

(c) Outfall 016: The permittee shall perform semiannual acute toxicity tests using *M. bahia* and *Cyprinodon variegatus* for a period of two years.

The acute tests shall be 48-hour static tests, conducted in such a manner and at sufficient dilutions for calculation of a valid LC_{50}. The chronic tests shall be static renewal 7-day survival, growth and fecundity tests using *M. bahia*. The chronic tests shall be conducted in such a manner and at sufficient dilutions to determine the "No Observed Effect Concentration" (NOEC) for survival, growth and fecundity. The permittee may provide additional samples to address data variability during the period of initial data generation. These data may be included in the evaluation of effluent toxicity. The results of all such additional analyses shall be reported. Technical assistance in developing the procedures for these tests shall be provided by DEQ staff, if requested by the permittee. Test protocols and the use of alternative species shall be approved by DEQ staff **prior** to initiation of testing.

(2) The following criterion shall be used in evaluating the toxicity tests generated in 11.a.(1)(c) above:

(a) LC_{50} greater than or equal to 100% effluent in six or more of the total of eight acute toxicity tests, or in at least 75% of the tests conducted if more than eight tests are conducted.

Any effluent failing the above criterion shall be considered to have demonstrated actual or potential toxicity and a Toxicity Reduction Evaluation (TRE) will be required.

(3) If, prior to completing the monitoring requirements specified in 11.a.(1)(c) above, it is determined that the effluent fails the decision criterion outlined in 11.a.(2), a TRE may be required for that outfall. Upon notification by DEQ staff that a TRE is required, the permittee shall initiate a TRE and may stop conducting the toxicity tests for that particular outfall as in 11.a.(1)(c).

(4) Following completion of the testing of outfall 016, according to 11.a.(1)(c) above or any additional testing required as in 11.a.(5)(a) below, the permittee shall continue acute and, where applicable, chronic toxicity testing of the outfall annually. The first annual tests shall be conducted within six months from the last semiannual tests or within three months from the last quarterly tests. The test organisms shall be those identified as the most sensitive species from the semiannual acute tests (outfalls 003, 012 and 016), or quarterly acute and chronic tests (outfalls 001 and 002), or alternative species approved by DEQ staff. Annual testing of a particular outfall is not required in cases where the need for a TRE of the outfall has been established.

(5) If, in the testing according to 11.a.(1)(a) and (b), or 11.a.(4) above, any of the annual chronic tests yields an NOEC of less than 2%, or if any of the annual acute toxicity tests yields an LC_{50} of less than 100% effluent, the tests shall be repeated within three months.

(a) If the retest also indicates an NOEC of less than 2% effluent or an LC_{50} of less than 100% effluent, quarterly (outfalls 001 & 002) or semiannual (outfalls 003, 012, & 016) toxicity testing shall commence within three (quarterly) or six months (semiannually) for a period of one (quarterly) or two (semiannually) years on the final effluent from the retested outfall. The results of these tests will be included in the evaluation of the need for toxicity reduction. If the retest does not confirm the results of the first test, then testing in accordance with the original annual compliance monitoring and reporting schedule shall resume.

(b) If the retest does not confirm the results of the first test, then annual testing in accordance with the annual compliance monitoring and reporting schedule shall resume.

(c) If the retest as in 11.a.(5)(a) above indicates the need for quarterly or semiannual testing, the tests shall be performed using both M. bahia and C. variegatus. Acute tests shall be 48-hour definitive tests conducted in such a manner and at sufficient dilutions for calculation of a valid LC_{50}. The chronic tests shall be static renewal 7-day survival, growth and fecundity tests using M. bahia, and the 7-day larval survival and growth tests using C. variegatus. These chronic tests shall be conducted in such a manner and at sufficient dilutions to determine the "No Observed Effect Concentration" (NOEC) for survival, growth, and fecundity. The results of these tests will be included in the evaluation of the need for toxicity reduction.

b. Sampling Procedure for Outfalls 001, 002, 003, 012 and 016

(1) Outfall 001: Effluent samples for use in toxicity tests shall be 24-hour, flow proportioned composite samples. If possible, samples shall represent all sources of wastewater to this discharge.

(2) Outfall 002: Effluent samples for use in toxicity tests shall be grab samples collected when active metal cleaning operations and outfall 201 wastewater would be predicted to contribute to the discharge. The following information shall be submitted with the toxicity tests:

(a) A description of the operations contributing to the 201 influent discharge;

(b) The type of cleaning method employed, dates, daily 201 discharge volumes, and the discharge duration of the outfall 201 wastewater contribution(s) to the sampled effluent; and,

(c) An estimate of other sources to the discharge and their relative proportions.

(3) Outfall 003, 012 and 016: Effluent samples for use in toxicity tests shall be grab samples. Sampling of outfall 016 shall, if at all possible, be within the first hour following the initiation of a discharge event. If this action cannot be accomplished as required, the sample shall be taken as soon as possible, but not later than 3 hours after the discharge commences. In addition, the samples shall be collected at least 72 hours from the last previously measurable rainfall event. A measurable rainfall event is defined as $\geq$ 0.1 inch of precipitation. The permittee shall submit the following information with the results of the toxicity tests for outfalls 003, 012 and 016:

(a) An estimate of the total volume of effluent discharged through the outfall during the event;

(b) The actual or estimated flow at the time of sampling;

(c) The time at which the storm event began, the time at which the effluent was sampled and the duration of the storm event; and,

(d) The elapsed time period from the last rain event ≥ 0.1 inch for outfall 016.

(4) In the event that sampling of the outfall as in 11.b., is not possible due to the absence of effluent flow during a particular testing period, the permittee shall provide written notification to DEQ with the DMR submitted for the month following the period in which the toxicity tests were to have been conducted. In such cases, the monitoring and reporting schedule in 11.d. below shall be adjusted ahead by six months for the outfall. The requirement for sampling of the outfall shall continue until the required number of toxicity tests have been performed.

c. Toxicity Reduction Evaluation

(1) If the results of this TMP or other available information indicate that the wastewaters are actually or potentially toxic, the permittee shall submit:

(a) A Toxicity Reduction Evaluation Plan or

(b) At the permittee's option, an instream impact study plan, and

(c) An accompanying implementation schedule

within 120 days of the notification of such a determination by the DEQ.

(2) The requirement of this plan shall be to:

(a) Assure the absence of actual or potential toxicity or

(b) To demonstrate that there is, or would be, no adverse impact from the discharge on all reasonable and beneficial uses of the State's waters.

(3) Upon completion of the review of the plan, the permittee shall implement the plan and the permit may be modified or, alternatively,

revoked and reissued in order to reflect appropriate permit conditions and a compliance monitoring and reporting schedule.

d. Monitoring and Reporting Schedule

The permittee shall conduct and report the results of the toxicity tests specified in this TMP in accordance with the following monitoring and reporting schedule (submit three copies of these reports to the TRO):

(1)	Submit toxicity test protocols for approval	Within two months following the permit effective date
(2)	Conduct first annual biological and first semiannual biological tests	Within six months following the permit effective date
(3)	Submit results of 11.d.(2)	With the Discharge Monitoring Report (DMR) for the seventh month following the permit effective date
(4)	Conduct second semiannual biological tests	Within twelve months following the permit effective date
(5)	Submit results of 11.d.(4)	With the DMR submitted for the thirteenth month following the permit effective date
(6)	Conduct second annual biological and third semiannual biological tests	Within eighteen months following the permit effective date
(7)	Submit results of 11.d.(6)	With the DMR submitted for the nineteenth month following the permit effective date
(8)	Conduct fourth semiannual biological tests	Within twenty-four months following the permit effective date

(9)	Submit results of 11.d.(8)	With the DMR submitted for the twenty-fifth month following the permit effective date
(10)	Conduct first (016) and third annual biological tests	Within thirty months following the permit effective date
(11)	Submit results of 11.d.(10)	With the DMR submitted for the thirty-first month following the permit effective date
(12)	Conduct subsequent annual biological tests	Within subsequent twelve-month periods from 11.d.(10)
(13)	Submit results of subsequent annual biological tests	With the DMRs submitted for subsequent twelve-month periods from 11.d.(11)

12. Stormwater Management

a. Recording of Results

For each measurement or sample taken pursuant to the storm event monitoring requirements of this permit, the permittee shall record and report with the Discharge Monitoring Report the following information:

(1) The date and duration (in hours) of the storm event(s) sampled;

(2) The rainfall measurements or estimates (in inches) of the storm event which generated the sampled discharge; and

(3) The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event.

b. Sampling Waiver

When a discharger is unable to collect samples for the storm event monitoring requirements due to adverse climatic conditions, the discharger must submit with the discharge monitoring report a description of why samples could not be collected, including available documentation of the event. Adverse weather conditions which may prohibit the collection of samples includes weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.). Dischargers are precluded from exercising this waiver more than twice during the permit term.

c. Stormwater Pollution Prevention Plan

A stormwater pollution prevention plan shall be developed for the facility. The plan shall be prepared in accordance with good engineering practices. The plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater discharges associated with industrial activity from the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in stormwater discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. The permittee must

implement the provisions of the stormwater pollution prevention plan required under this part as a condition of this permit.

d. Deadlines for Plan Preparation and Compliance

The stormwater pollution prevention plan shall be prepared **within 180 days** after the effective date of this permit and shall provide for implementation and compliance with the terms of the plan **within 365 days** after the effective date of this permit. **Verification of compliance with each of the above deadlines shall be provided, in writing, within 10 days of either the deadline or the actual completion date, if completed earlier.**

e. Plan Review

The plan shall be retained on-site at the facility which generates the stormwater discharge.

The permittee shall make plans available upon request to the Regional Office. The Regional Office may notify the permittee at any time that the plan does not meet one or more of the requirements of the permit. Such notification shall identify those provisions of the permit which are not being met by the plan, and identify which provisions of the plan require modifications in order to meet the minimum requirements of this Part. Within 30 days of such notification, the permittee shall make the required changes to the plan and shall submit to the Regional Office a written certification that the requested changes have been made.

f. Plan Modifications

The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the potential for the discharge of pollutants to surface waters of the State or if the stormwater pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified in the plan, or in otherwise achieving the general objectives of controlling pollutants in stormwater discharges associated with industrial activity.

g. Contents of Plan

The plan shall include, at a minimum, the following items:

(1) Pollution Prevention Team

The plan shall identify a specific individual or individuals within the facility organization as members of a stormwater Pollution Prevention Team that are responsible for developing the stormwater pollution prevention plan and assisting the facility or plant manager in its implementation, maintenance, and revision. The plan shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's stormwater pollution prevention plan.

(2) Description of Potential Pollutant Sources

The plan shall provide a description of potential sources which may reasonably be expected to add significant amounts of pollutants to stormwater discharges. The plan shall identify all activities and significant materials which may potentially be significant pollutant sources. The plan shall include, at a minimum:

(a) Drainage

i. A site map indicating an outline of the drainage area, within the facility boundaries, of each outfall that contains stormwater runoff, each existing structural control measure to reduce pollutants in stormwater runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations, vehicle and equipment maintenance and/or cleaning areas, loading/unloading areas, locations used for the treatment, storage or disposal of wastes, liquid storage tanks, processing areas and storage areas.

ii. For each area of the facility that generates stormwater discharges associated with industrial activity with a reasonable potential for

containing significant amounts of pollutants, a prediction of the direction of flow, and an identification of the types of pollutants which are likely to be present in the stormwater discharges. Factors to consider include the toxicity of chemicals; quantity of chemicals used, produced or discharged; the likelihood of contact with stormwater; and history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified.

(b) Inventory of Exposed Materials

An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to stormwater between the time of three years prior to the effective date of this permit and the present; method and location of on-site storage or disposal; materials management practices employed to minimize contact of materials with stormwater runoff between the time of three years prior to the effective date of this permit and the present; the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff; and a description of any treatment the stormwater receives.

(c) Spills and Leaks

A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a stormwater conveyance at the facility after the date of three years prior to the effective date of this permit. Such list shall be updated as appropriate during the term of the permit.

(d) Sampling Data

A summary of existing discharge sampling data describing pollutants in stormwater discharges from the facility, including a summary of sampling data collected during the term of this permit.

(e) Risk Identification and Summary of Potential Pollutant Sources

A narrative description of the potential pollutant sources from the following activities: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and on-site waste disposal practices. The description shall specifically list any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g. biochemical oxygen demand, etc.) of concern shall be identified.

(3) Measures and Controls

A description of stormwater management controls appropriate for the facility and a schedule for implementing these controls shall be developed. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of stormwater management controls shall address the following minimum components:

(a) Good Housekeeping

Good housekeeping requires the maintenance in a clean, orderly manner, of areas which may contribute pollutants to stormwater discharges.

(b) Preventive Maintenance

A preventive maintenance program shall involve timely inspection and maintenance of stormwater management devices (e.g. cleaning oil/water separators, catch basins) as well as inspecting and testing facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of

pollutants to surface waters, and ensuring appropriate maintenance of such equipment and systems.

(c) Spill Prevention and Response Procedures

Areas where potential spills may occur which can contribute pollutants to stormwater discharges, and their accompanying drainage points shall be identified clearly in the stormwater pollution prevention plan. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to the appropriate personnel.

(d) Inspections

In addition to or as part of the comprehensive site evaluation required under section g.(4) of this Part, qualified facility personnel shall be identified to inspect designated equipment and areas of the facility at appropriate intervals specified in the plan. A set of tracking or followup procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained with the pollution prevention plan.

(e) Employee Training

Employee training programs shall be developed to inform personnel, responsible for implementing activities identified in the stormwater pollution prevention plan or otherwise responsible for stormwater management, of the components and goals of the stormwater pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. The pollution prevention plan shall identify periodic dates for such training.

(f) Recordkeeping and Internal Reporting Procedures

A description of incidents such as spills, or other discharges, along with other information describing the quality and quantity of stormwater discharges shall be included in the pollution prevention plan. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.

(g) Sediment and Erosion Control

The plan shall identify areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.

(h) Management of Runoff

The plan shall contain a narrative consideration of the appropriateness of traditional stormwater management practices (practices other than those which control the generation or source(s) of pollutants) used to divert, infiltrate, reuse, or otherwise manage stormwater runoff in a manner that reduces pollutants in stormwater discharges from the site. The plan shall provide for the implementation and maintenance of measures that the permittee determines to be reasonable and appropriate. The potential of various sources at the facility to contribute pollutants to stormwater discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices, reuse of collected stormwater (such as for a process or as an irrigation source), inlet controls (such as oil/water separators), snow management activities, infiltration devices, and detention/retention devices.

(4) Comprehensive Site Compliance Evaluation

Qualified facility personnel shall conduct site compliance evaluations at appropriate intervals

specified in the plan, but, in no case less than once a year during the permit term. Such evaluations shall provide:

(a) Areas contributing to a stormwater discharge associated with industrial activity shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural stormwater management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made.

(b) Based on the results of the inspection, the description of potential pollutant sources identified in the plan and pollution prevention measures and controls identified in the plan shall be revised as appropriate within 14 days of such inspection and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than 90 days after the inspection.

(c) A report summarizing the scope of the inspection, personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the stormwater pollution prevention plan, and actions taken in accordance with paragraph (b) (above) shall be made and retained as part of the stormwater pollution prevention plan. The report shall identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the stormwater pollution prevention plan and this permit. The report shall be signed in accordance with 40 CFR Part 122.22 (1992).

h. Requirements for Salt Storage

Storage piles of salt used for deicing or other commercial or industrial purposes and which generate a stormwater discharge associated with industrial activity which is discharged to waters of the State shall be enclosed or covered to prevent exposure to precipitation, except for exposure resulting from adding or removing materials from the pile. Dischargers shall demonstrate compliance with this provision not later than 3 years from the effective date of this permit. Annual reports of progress towards compliance shall be compiled and added to the Pollution Prevention Plan. Piles do not need to be enclosed or covered where stormwater from the pile is not discharged to waters of the State.

13. Water Quality Monitoring

a. The permittee shall monitor the effluent at outfalls listed below for the following substances according to the indicated sample type and frequency. **The data shall be submitted with the DMR for the month following the month in which the analyses were conducted.** It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. The Department will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed below.

b. Outfalls 001, 002, 003 and 012

Chemical	Analysis Number	Quantification Level (ug/l)	Sample Type	Frequency
METALS				
Arsenic	EPA 206.2	10.0	G	X
Barium	EPA 200.7	20.0	G	X
Cadmium	EPA 213.2	1.0	G	X
Chromium III *	EPA 218.2 minus 218.4	10.0	G	X
Chromium VI (dissolved)	EPA 218.4	10.0	G	X
Copper	EPA 220.2	10.0	G	A
Iron	EPA 236.1 or 236.2	---	G	X
Lead	EPA 239.2	5.0	G	A
Manganese	EPA 243.1	---	G	X
Mercury	EPA 245.1 or 245.2	0.3	G	X
Nickel	EPA 249.2	40.0	G	A
Selenium	EPA 270.2 or 270.3	5.0	G	X
Silver	EPA 272.2	2.0	G	A
Zinc	EPA 289.2	20.0	G	A
PESTICIDES/PCBs				
Aldrin	608	0.05	G	C
Chlorpyrifos	622	0.2	G	C
Chlordane	608	0.2	G	C
DDT	608	0.1	G	C
Demeton	(i)	---	G	C

b. Outfalls 001, 002, 003 and 012 (continued)

Chemical	Analysis Number	Quantification Level (ug/l)	Sample Type	Frequency
PESTICIDES/PCBs				
2,4-Dichlorophenoxy acetic acid (2,4-D)	(i)	---	G	X
Dieldrin	608	0.1	G	C
Endosulfan I	608	0.1	G	C
Endosulfan II	608	0.1	G	C
Endosulfan sulfate	608	0.1	G	C
Endrin	608	0.1	G	C
Guthion	622	---	G	C
Heptachlor	608	0.05	G	C
Hexachlorocyclohexane (Lindane)	608	0.05	G	C
Malathion	(i)	---	G	C
Methoxychlor	(i)	---	G	C
Mirex	(i)	---	G	C
Parathion	(i)	---	G	C
PCB-1242	608	1.0	G	C
PCB-1254	608	1.0	G	C
PCB-1221	608	1.0	G	C
PCB-1232	608	1.0	G	C
PCB-1248	608	1.0	G	C
PCB-1260	608	1.0	G	C
PCB-1016	608	1.0	G	C
2-(2,4,5-Trichlorophenoxy) propionic acid (Silvex)	(i)	---	G	X
Toxaphene	608	5.0	G	C
BASE NEUTRAL				
Anthracene	625	10.0	G	X
Benzo(a)anthracene	625	10.0	G	X
Benzo(b)fluoranthene	625	10.0	G	X
Benzo(k)fluoranthene	625	10.0	G	X
Benzo(a)pyrene	625	10.0	G	X
Chrysene	625	10.0	G	X
Dibenz(a,h)anthracene	625	20.0	G	X
1,2-Dichlorobenzene	625	10.0	G	X
1,3-Dichlorobenzene	625	10.0	G	X
1,4-Dichlorobenzene	625	10.0	G	X
2,4-Dinitrotoluene	625	10.0	G	X
Di-2-Ethylhexyl Phthalate	625	10.0	G	X
Fluoranthene	625	10.0	G	X
Fluorene	625	10.0	G	X

b. Outfalls 001, 002, 003 and 012 (continued)

Chemical	Analysis Number	Quantification Level (ug/l)	Sample Type	Frequency
BASE NEUTRAL				
Isophorone	625	10.0	G	X
Indeno(1,2,3-cd)pyrene	625	20.0	G	X
Naphthalene	625	10.0	G	X
Pyrene	625	10.0	G	X
VOLATILES				
Benzene	624	10.0	G	X
Bromoform	624	10.0	G	X
Carbon Tetrachloride	624	10.0	G	X
Chlorodibromomethane	624	10.0	G	X
Chloroform	624	10.0	G	X
Chloromethane	624	20.0	G	X
Dichloromethane	624	20.0	G	X
Dichlorobromomethane	624	10.0	G	X
1,2-Dichloroethane	624	10.0	G	X
Ethylbenzene	624	10.0	G	X
Monochlorobenzene	624	50.0	G	X
Tetrachloroethylene	624	10.0	G	X
Toluene	624	10.0	G	X
Trichloroethylene	624	10.0	G	X
Vinyl Chloride	624	10.0	G	X
ACIDS				
Pentachlorophenol	625	50.0	G	X
Phenol	625**	10.0	G	X
2,4,6-Trichlorophenol	625	10.0	G	X
MISCELLANEOUS				
Ammonia as NH3-N	EPA 350.1	200	C	E
Chlorine (total residual)	(i)	100	G	X
Cyanide	EPA 335.2	10.0	G	B
Dioxin	EPA 1613	0.00001	C	X
Hardness	(i)	---	C	X
Sulfate	(i)	---	C	X
Tributyltin	NBSR 85-3295	---	C	X
Xylenes (total)	EPA SW 846 Method 8020	---	G	C

c. Outfall 010

Chemical	Analysis Number	Quantification Level (ug/l)	Sample Type	Frequency
METALS				
Arsenic	EPA 206.2	10.0	G	X
Barium	EPA 200.7	20.0	G	X
Cadmium	EPA 213.2	1.0	G	A
Chromium III *	EPA 218.2 minus 218.4	10.0	G	A
Chromium VI (dissolved)	EPA 218.4	10.0	G	A
Copper	EPA 220.2	10.0	G	A
Iron	EPA 236.1 or 236.2	---	G	X
Lead	EPA 239.2	5.0	G	A
Manganese	EPA 243.1	---	G	X
Mercury	EPA 245.1 or 245.2	0.3	G	A
Nickel	EPA 249.2	40.0	G	A
Selenium	EPA 270.2 or 270.3	5.0	G	A
Silver	EPA 272.2	2.0	G	A
Zinc	EPA 289.2	20.0	G	A
PESTICIDES/PCBs				
Aldrin	608	0.05	G	C
Chlorpyrifos	622	0.2	G	C
Chlordane	608	0.2	G	C
DDT	608	0.1	G	C
Demeton	(i)	---	G	C
2,4-Dichlorophenoxy acetic acid (2,4-D)	(i)	---	G	X
Dieldrin	608	0.1	G	C
Endosulfan I	608	0.1	G	C
Endosulfan II	608	0.1	G	C
Endosulfan sulfate	608	0.1	G	C
Endrin	608	0.1	G	C
Guthion	622	---	G	C
Heptachlor	608	0.05	G	C
Hexachlorocyclohexane (Lindane)	608	0.05	G	C
Malathion	(i)	---	G	C
Methoxychlor	(i)	---	G	C
Mirex	(i)	---	G	C
Parathion	(i)	---	G	C
PCB-1242	608	1.0	G	C

c. Outfall 010 (continued)

Chemical	Analysis Number	Quantification Level (ug/l)	Sample Type	Frequency
PESTICIDES/PCBs				
PCB-1254	608	1.0	G	C
PCB-1221	608	1.0	G	C
PCB-1232	608	1.0	G	C
PCB-1248	608	1.0	G	C
PCB-1260	608	1.0	G	C
PCB-1016	608	1.0	G	C
2-(2,4,5-Trichlorophenoxy) propionic acid (Silvex)	(i)	---	G	X
Toxaphene	608	5.0	G	C
BASE NEUTRAL				
Anthracene	625	10.0	G	E
Benzo(a)anthracene	625	10.0	G	E
Benzo(b)fluoranthene	625	10.0	G	E
Benzo(k)fluoranthene	625	10.0	G	E
Benzo(a)pyrene	625	10.0	G	E
Chrysene	625	10.0	G	E
Dibenz(a,h)anthracene	625	20.0	G	E
1,2-Dichlorobenzene	625	10.0	G	E
1,3-Dichlorobenzene	625	10.0	G	E
1,4-Dichlorobenzene	625	10.0	G	E
2,4-Dinitrotoluene	625	10.0	G	E
Di-2-Ethylhexyl Phthalate	625	10.0	G	E
Fluoranthene	625	10.0	G	E
Fluorene	625	10.0	G	E
Isophorone	625	10.0	G	E
Indeno(1,2,3-cd)pyrene	625	20.0	G	E
Naphthalene	625	10.0	G	E
Pyrene	625	10.0	G	E
VOLATILES				
Benzene	624	10.0	G	E
Bromoform	624	10.0	G	E
Carbon Tetrachloride	624	10.0	G	E
Chlorodibromomethane	624	10.0	G	E
Chloroform	624	10.0	G	E
Chloromethane	624	20.0	G	E
Dichloromethane	624	20.0	G	E
Dichlorobromomethane	624	10.0	G	E
1,2-Dichloroethane	624	10.0	G	E
Ethylbenzene	624	10.0	G	E

c. Outfall 010 (continued)

Chemical	Analysis Number	Quantification Level (ug/l)	Sample Type	Frequency
VOLATILES				
Monochlorobenzene	624	50.0	G	E
Tetrachloroethylene	624	10.0	G	E
Toluene	624	10.0	G	E
Trichloroethylene	624	10.0	G	E
Vinyl Chloride	624	10.0	G	E
ACIDS				
Pentachlorophenol	625	50.0	G	E
Phenol	625**	10.0	G	E
2,4,6-Trichlorophenol	625	10.0	G	E
MISCELLANEOUS				
Ammonia as NH3-N	EPA 350.1	200	C	E
Chlorine (total residual)	(i)	100	G	X
Cyanide	EPA 335.2	10.0	G	B
Dioxin	EPA 1613	0.00001	C	C
Hardness	(i)	---	C	X
Sulfate	(i)	---	C	X
Tributyltin	NBSR 85-3295	---	C	X
Xylenes (total)	EPA SW 846 Method 8020	---	G	E

* If the result of the total chromium analysis is less than or equal to the QL of 10 micrograms/liter, the result for chromium III can be reported as not quantifiable.

** Requires continuous extraction.

(i) = any approved method presented in 40 CFR Part 136.

Dashes, ---, mean that the QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level are in micrograms/liter unless otherwise specified.

Sample Type	G	=	Grab
	C	=	5G/8HC Eight-hour composite consisting of grab samples collected at hourly intervals until the discharge ceases or until a minimum of 5 grab samples have been collected.
	G/C	=	Dissolved metals shall be a grab sample, total recoverable metals shall be a 8-hour composite unless otherwise specified

Frequency:	**A**	**=**	**once per six months beginning 2 years from the effective date of the permit**
	B	**=**	**once per year**
	C, D	**=**	**once per permit term beginning 3 years from the effective date of the permit**
	E	**=**	**once per year beginning 3 years from the effective date of the permit**
	F	**=**	**quarterly beginning 3 years from the effective date of the permit**
	X	**=**	**no monitoring required by this special condition**

Chemical monitoring required by Part I.A. of this permit shall satisfy the requirements of this condition where the two coincide, provided the specified minimum quantification levels and sample types of this condition are met.

If chemical monitoring is not required by Part I.A. of this permit until completion of a schedule of compliance, then no monitoring for those same parameters will be required under this condition until completion of that schedule.

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

INDUSTRIAL MAJOR 03/22/95

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

NAME VEPCO-CHESAPEAKE ENERGY CENTER

ADDRESS 5000 DOMINION BLVD.
GLEN ALLEN VA 23060

FACILITY LOCATION FILE NO.22-4745.

VA0004081 PERMIT NUMBER

001 DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY

TIDEWATER REGIONAL OFFICE
287 PEMBROKE OFF. PARK
SUITE 310 PEMBROKE 2
VIRGINIA BEACH, VA. 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

804-552-1840

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
001 FLOW	REPORTED				**********	**********	**********				
	PERMIT REQUIREMENT	NL	NL	MGD	**********	**********	**********			1/D	EST
002 PH	REPORTED	**********	**********			**********					
	PERMIT REQUIREMENT	**********	**********		6.0000	**********	9.0000	SU		1/W	GRAB
012 TOTAL PHOSPHORUS	REPORTED	**********	**********		**********		**********				
	PERMIT REQUIREMENT	**********	**********		**********	2.0000	**********	MG/L		2/M	GRAB
013 TOTAL NITROGEN	REPORTED	**********	**********		**********		**********				
	PERMIT REQUIREMENT	**********	**********		**********	NL	**********	MG/L		2/M	GRAB
083 HEAT REJ(10**9)	REPORTED	**********	**********		**********		**********				
	PERMIT REQUIREMENT	**********	**********		**********	3.5500	**********	BTU/H		CONT	REC
158 TOTAL CL2-FINAL	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NON-DETECT	MG/L		1/W	GRAB
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW (M. G.)	TOTAL BOD5 (K G)

OPERATOR IN RESPONSIBLE CHARGE			DATE		

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U. S. C. § 1001 AND 33 U. S. C. § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE		
TYPED OR PRINTED NAME	SIGNATURE	AREA CODE / NUMBER	YEAR	MO	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

INDUSTRIAL MAJOR 03/22/95

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

NAME: VEPCO-CHESAPEAKE ENERGY CENTER

ADDRESS: 5000 DOMINION BLVD.
GLEN ALLEN VA 23060

FACILITY LOCATION: FILE NO.22-4745.

PERMIT NUMBER: VA0004081

DISCHARGE NUMBER: 002

MONITORING PERIOD: FROM YEAR MO DAY TO YEAR MO DAY

TIDEWATER REGIONAL OFFICE
287 PEMBROKE OFF. PARK
SUITE 310 PEMBROKE 2
VIRGINIA BEACH, VA. 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

804-552-1840

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED				**********	**********	**********				
	PERMIT REQUIREMENT	NL	NL	MGD	**********	**********	**********			2/M	EST
002 PH	REPORTED	**********	**********			**********					
	PERMIT REQUIREMENT	**********	**********		6.0000	**********	9.0000	SU		2/M	GRAB
004 TOTAL SUS.SOLIDS	REPORTED	**********	**********		**********						
	PERMIT REQUIREMENT	**********	**********		**********	30.0000	100.0000	MG/L		2/M	GRAB
005 TOTAL CL2	REPORTED	**********	**********		**********						
	PERMIT REQUIREMENT	**********	**********		**********	NL	NL	MG/L		1/3M	GRAB
012 TOTAL PHOSPHORUS	REPORTED	**********	**********		**********		**********				
	PERMIT REQUIREMENT	**********	**********		**********	2.0000	**********	MG/L		2/M	GRAB
013 TOTAL NITROGEN	REPORTED	**********	**********		**********		**********				
	PERMIT REQUIREMENT	**********	**********		**********	NL	**********	MG/L		2/M	GRAB
500 OIL & GREASE	REPORTED	**********	**********		**********						
	PERMIT REQUIREMENT	**********	**********		**********	15.0000	20.0000	MG/L		2/M	GRAB
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW (M. G.)	TOTAL BOD5 (K G)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO	DAY

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U. S. C. § 1001 AND 33 U. S. C. § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE		DATE		
TYPED OR PRINTED NAME	SIGNATURE	AREA CODE	NUMBER	YEAR	MO	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

INDUSTRIAL MAJOR 03/22/95

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

TIDEWATER REGIONAL OFFICE
287 PEMBROKE OFF. PARK
SUITE 310 PEMBROKE 2
VIRGINIA BEACH, VA. 23462

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME: VEPCO-CHESAPEAKE ENERGY CENTER

ADDRESS: 5000 DOMINION BLVD.
GLEN ALLEN VA 23060

FACILITY LOCATION: FILE NO.22-4745.

PERMIT NUMBER: VA0004081

DISCHARGE NUMBER: 003

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

804-552-1840

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
001 FLOW	REPORTED	**********			**********	**********	**********				
	PERMIT REQUIREMENT	**********	NL	MG	**********	**********	**********			1/6M	EST
002 PH	REPORTED	**********	**********			**********					
	PERMIT REQUIREMENT	**********	**********		6.0000	**********	9.0000	SU		1/6M	GRAB
004 TOTAL SUS.SOLIDS	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	50.0000	MG/L		1/6M	GRAB
* 442 DIS. COPPER	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L		1/6M	GRAB
* 445 DIS. NICKEL	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L		1/6M	GRAB
* 448 DIS. ZINC	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L		1/6M	GRAB
500 OIL & GREASE	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	MG/L		1/6M	GRAB
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

* See Part I.A.1.[c]

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW (M. G.)	TOTAL BOD_5 (K G)

OPERATOR IN RESPONSIBLE CHARGE			DATE		

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U. S. C. § 1001 AND 33 U. S. C. § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE		
TYPED OR PRINTED NAME	SIGNATURE	AREA CODE / NUMBER	YEAR	MO	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

INDUSTRIAL MAJOR 03/22/95

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME VEPCO-CHESAPEAKE ENERGY CENTER

ADDRESS 5000 DOMINION BLVD.
GLEN ALLEN VA 23060

FACILITY LOCATION FILE NO.22-4745.

VA0004081 PERMIT NUMBER

010 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

TIDEWATER REGIONAL OFFICE
287 PEMBROKE OFF. PARK
SUITE 310 PEMBROKE 2
VIRGINIA BEACH, VA. 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

804-552-1840

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
001 FLOW	REPORTED	**********		MGD	**********	**********	**********			1/6M	EST
	PERMIT REQUIREMENT	**********	NL		**********	**********	**********				
002 PH	REPORTED	**********	**********			**********				1/6M	GRAB
	PERMIT REQUIREMENT	**********	**********		6.0000	**********	9.0000	SU			
004 TOTAL SUS.SOLIDS	REPORTED	**********	**********		**********	**********				1/6M	GRAB
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	MG/L			
* 442 DIS. COPPER	REPORTED	**********	**********		**********	**********				1/6M	GRAB
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L			
* 445 DIS. NICKEL	REPORTED	**********	**********		**********	**********				1/6M	GRAB
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L			
* 448 DIS. ZINC	REPORTED	**********	**********		**********	**********				1/6M	GRAB
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L			
500 OIL & GREASE	REPORTED	**********	**********		**********	**********				1/6M	GRAB
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	MG/L			
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

* See Part I.A.1.[a]

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW (M. G.)	TOTAL BOD5 (K G)

OPERATOR IN RESPONSIBLE CHARGE

TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	DATE YEAR	MO	DAY

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U. S. C. § 1001 AND 33 U. S. C. § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TYPED OR PRINTED NAME	SIGNATURE	TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

INDUSTRIAL MAJOR 03/22/95

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

NAME VEPCO-CHESAPEAKE ENERGY CENTER

ADDRESS 5000 DOMINION BLVD.
GLEN ALLEN VA 23060

FACILITY LOCATION FILE NO.22-4745.

VA0004081 PERMIT NUMBER

011 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

TIDEWATER REGIONAL OFFICE
287 PEMBROKE OFF. PARK
SUITE 310 PEMBROKE 2
VIRGINIA BEACH, VA. 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

804-552-1840

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
001 FLOW	REPORTED	**********			**********	**********	**********				
	PERMIT REQUIREMENT	**********	NL	MG	**********	**********	**********			1/YR	EST
002 PH	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	SU		1/YR	GRAB
004 TOTAL SUS.SOLIDS	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	MG/L		1/YR	GRAB
* 442 DIS. COPPER	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L		1/YR	GRAB
* 445 DIS. NICKEL	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L		1/YR	GRAB
* 448 DIS. ZINC	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L		1/YR	GRAB
500 OIL & GREASE	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	MG/L		1/YR	GRAB
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

* See Part I.A.1.[c]

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW (M. G.)	TOTAL BOD_5 (K G)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE		
TYPED OR PRINTED NAME	SIGNATURE	AREA CODE / NUMBER	YEAR	MO	DAY

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U. S. C. § 1001 AND 33 U. S. C. § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

INDUSTRIAL MAJOR 03/22/95

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME VEPCO-CHESAPEAKE ENERGY CENTER

ADDRESS 5000 DOMINION BLVD.
GLEN ALLEN VA 23060

FACILITY LOCATION FILE NO.22-4745.

VA0004081 PERMIT NUMBER

012 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

TIDEWATER REGIONAL OFFICE
287 PEMBROKE OFF. PARK
SUITE 310 PEMBROKE 2
VIRGINIA BEACH, VA. 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

804-552-1840

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
001 FLOW	REPORTED				**********	**********	**********				
	PERMIT REQUIREMENT	NL	NL	MGD	**********	**********	**********			1/M	EST
002 PH	REPORTED	**********	**********			**********					
	PERMIT REQUIREMENT	**********	**********		6.0000	**********	9.0000	SU		1/M	GRAB
257 T.PETRO HYDROCARBONS	REPORTED	**********	**********		**********		**********				
	PERMIT REQUIREMENT	**********	**********		**********	NL	**********	MG/L		1/YR	GRAB
500 OIL & GREASE	REPORTED	**********	**********		**********		**********				
	PERMIT REQUIREMENT	**********	**********		**********	30.0000	**********	MG/L		1/M	GRAB
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW (M. G.)	TOTAL BOD_5 (K G)

OPERATOR IN RESPONSIBLE CHARGE

TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	DATE YEAR	MO	DAY

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U. S. C. § 1001 AND 33 U. S. C. § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE		
TYPED OR PRINTED NAME	SIGNATURE	AREA CODE / NUMBER	YEAR	MO	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

INDUSTRIAL MAJOR 03/22/95

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME VEPCO-CHESAPEAKE ENERGY CENTER

ADDRESS 5000 DOMINION BLVD.
GLEN ALLEN VA 23060

FACILITY LOCATION FILE NO.22-4745.

VA0004081 PERMIT NUMBER

016 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

TIDEWATER REGIONAL OFFICE
287 PEMBROKE OFF. PARK
SUITE 310 PEMBROKE 2
VIRGINIA BEACH, VA. 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

804-552-1840

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
001 FLOW	REPORTED	**********			**********	**********	**********				
	PERMIT REQUIREMENT	**********	NL	MG	**********	**********	**********			1/YR	EST
002 PH	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	SU		1/YR	GRAB
004 TOTAL SUS.SOLIDS	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	MG/L		1/YR	GRAB
* 442 DIS. COPPER	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L		1/YR	GRAB
* 445 DIS. NICKEL	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L		1/YR	GRAB
* 448 DIS. ZINC	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L		1/YR	GRAB
500 OIL & GREASE	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	MG/L		1/YR	GRAB
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

* See Part I.A.1.[c]

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW (M. G.)	TOTAL BOD_5 (K G)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO	DAY

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U. S. C. § 1001 AND 33 U. S. C. § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE		DATE		
TYPED OR PRINTED NAME	SIGNATURE	AREA CODE	NUMBER	YEAR	MO	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

INDUSTRIAL MAJOR 03/22/95

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

NAME: VEPCO-CHESAPEAKE ENERGY CENTER

ADDRESS: 5000 DOMINION BLVD.
GLEN ALLEN VA 23060

FACILITY LOCATION: FILE NO.22-4745.

VA0004081 — PERMIT NUMBER

017 — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

TIDEWATER REGIONAL OFFICE
287 PEMBROKE OFF. PARK
SUITE 310 PEMBROKE 2
VIRGINIA BEACH, VA. 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

804-552-1840

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
001 FLOW	REPORTED	**********		MG	**********	**********	**********				
	PERMIT REQUIREMENT	**********	NL		**********	**********	**********			1/YR	EST
002 PH	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	SU		1/YR	GRAB
004 TOTAL SUS.SOLIDS	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	MG/L		1/YR	GRAB
* 442 DIS. COPPER	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L		1/YR	GRAB
* 445 DIS. NICKEL	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L		1/YR	GRAB
* 448 DIS. ZINC	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	UG/L		1/YR	GRAB
500 OIL & GREASE	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	MG/L		1/YR	GRAB
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

* See Part I.A.1.[c]

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW (M.G.)	TOTAL BOD_5 (K G)	OPERATOR IN RESPONSIBLE CHARGE			DATE		

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE		
TYPED OR PRINTED NAME	SIGNATURE	AREA CODE / NUMBER	YEAR	MO	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

INDUSTRIAL MAJOR 03/22/95

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

NAME VEPCO-CHESAPEAKE ENERGY CENTER

ADDRESS 5000 DOMINION BLVD.
GLEN ALLEN VA 23060

FACILITY LOCATION FILE NO.22-4745.

VA0004081 — PERMIT NUMBER

101 — DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY

TIDEWATER REGIONAL OFFICE
287 PEMBROKE OFF. PARK
SUITE 310 PEMBROKE 2
VIRGINIA BEACH, VA. 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

804-552-1840

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
001 FLOW	REPORTED				**********	**********	**********				
	PERMIT REQUIREMENT	NL	NL	MGD	**********	**********	**********			2/M	EST
004 TOTAL SUS.SOLIDS	REPORTED	**********	**********		**********						
	PERMIT REQUIREMENT	**********	**********		**********	30.0000	100.0000	MG/L		2/M	GRAB
500 OIL & GREASE	REPORTED	**********	**********		**********						
	PERMIT REQUIREMENT	**********	**********		**********	15.0000	20.0000	MG/L		2/M	GRAB
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW (M.G.)	TOTAL BOD5 (K G)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO	DAY

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE		DATE		
TYPED OR PRINTED NAME	SIGNATURE	AREA CODE	NUMBER	YEAR	MO	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

INDUSTRIAL MAJOR 03/22/95

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

NAME: VEPCO-CHESAPEAKE ENERGY CENTER

ADDRESS: 5000 DOMINION BLVD.
GLEN ALLEN VA 23060

FACILITY LOCATION: FILE NO.22-4745.

VA0004081 — PERMIT NUMBER

201 — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

TIDEWATER REGIONAL OFFICE
287 PEMBROKE OFF. PARK
SUITE 310 PEMBROKE 2
VIRGINIA BEACH, VA. 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

804-552-1840

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
001 FLOW	REPORTED				**********	**********	**********				
	PERMIT REQUIREMENT	NL	NL	MGD	**********	**********	**********			1/DIS	EST
004 TOTAL SUS.SOLIDS	REPORTED				**********						
	PERMIT REQUIREMENT	170.0000	568.0000	KG/D	**********	30.0000	100.0000	MG/L		1/DIS	GRAB
019 TOTAL COPPER	REPORTED				**********						
	PERMIT REQUIREMENT	6.0000	6.0000	KG/D	**********	1000.0000	1000.0000	UG/L		1/DIS	GRAB
031 TOTAL IRON	REPORTED				**********						
	PERMIT REQUIREMENT	6.0000	6.0000	KG/D	**********	1000.0000	1000.0000	UG/L		1/DIS	GRAB
500 OIL & GREASE	REPORTED				**********						
	PERMIT REQUIREMENT	85.0000	114.0000	KG/D	**********	15.0000	20.0000	MG/L		1/DIS	GRAB
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW (M. G.)	TOTAL BOD_5 (K G)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE		
TYPED OR PRINTED NAME	SIGNATURE	AREA CODE / NUMBER	YEAR	MO	DAY

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

INDUSTRIAL MAJOR 03/22/95

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME VEPCO-CHESAPEAKE ENERGY CENTER

ADDRESS 5000 DOMINION BLVD.
GLEN ALLEN VA 23060

FACILITY LOCATION FILE NO.22-4745.

VA0004081 PERMIT NUMBER

206 DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY

TIDEWATER REGIONAL OFFICE
287 PEMBROKE OFF. PARK
SUITE 310 PEMBROKE 2
VIRGINIA BEACH, VA. 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

804-552-1840

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
001 FLOW	REPORTED				**********	**********	**********				
	PERMIT REQUIREMENT	NL	NL	MGD	**********	**********	**********			2/M	EST
005 TOTAL CL2	REPORTED	**********	**********			**********					
	PERMIT REQUIREMENT	**********	**********		1.5000	**********	NL	MG/L		2/M	GRAB
006 FECAL COLIFORM	REPORTED	**********	**********		**********	**********					
	PERMIT REQUIREMENT	**********	**********		**********	**********	NL	N/CML		1/3M	GRAB
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW (M. G.)	TOTAL BOD_5 (K G)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE		
TYPED OR PRINTED NAME	SIGNATURE	AREA CODE / NUMBER	YEAR	MO	DAY

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MONITORING AND REPORTING

A. Sampling and Analysis Methods

1. Samples and measurements taken as required by this permit shall be representative of the volume and nature of the monitored activity.

2. Unless otherwise specified in the permit all sample preservation methods, maximum holding times and analysis methods for pollutants shall comply with requirements set forth in Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act as published in the Federal Register (40 CFR 136).

3. The sampling and analysis program to demonstrate compliance with the permit shall at a minimum, conform to Part I of this permit.

4. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

1. The date, exact place and time of sampling or measurements;

2. The person(s) who performed the sampling or measurements;

3. The dates analyses were performed;

4. The person(s) who performed each analysis;

5. The analytical techniques or methods used; and

6. The results of such analyses and measurements.

C. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recording from continuous monitoring instrumentation, shall be retained for three (3) years from

the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Director, Department of Environmental Quality.

D. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the monitoring report. Such increased frequency shall also be reported.

E. Water Quality Monitoring

The Director, Department of Environmental Quality may require every permittee to furnish such plans, specifications, or other pertinent information as may be necessary to determine the effect of the pollutant(s) on the water quality or to ensure pollution of State waters does not occur or such information as may be necessary to accomplish the purposes of the Virginia State Water Control Law, Clean Water Act or the State Water Control Board's Permit Regulation.

The permittee shall obtain and report such information if requested by the Director, Department of Environmental Quality. Such information shall be subject to inspection by authorized State and Federal representatives and shall be submitted with such frequency and in such detail as requested by the Director, Department of Environmental Quality.

F. Reporting Requirements

1. The permittee shall submit to the Department of Environmental Quality's Regional Office, at the following address by the 10th of each month for the preceding month's performance, an original monitoring report. In addition, a monthly report covering the facility's general operational data may be required. If this report is required, the permittee will be so notified.

   Send report to:

   Department of Environmental Quality (DEQ)
   Tidewater Regional Office
   287 Pembroke Office Park
   Pembroke No. 2, Suite 310
   Virginia Beach, Virginia 23462

2. If, for any reason, the permittee does not comply with one or more limitations, standards, monitoring or management requirements specified in this permit, the permittee shall submit to the Department of Environmental Quality's Regional Office with the monitoring report at least the following information:

   a. A description and cause of noncompliance;

   b. The period of noncompliance, including exact dates and times and/or the anticipated time when the noncompliance will cease; and

   c. Actions taken or to be taken to reduce, eliminate, and prevent recurrence of the noncompliance.

   Whenever such noncompliance may adversely affect State waters or may endanger public health, the permittee shall submit the above required information by oral report within 24 hours from the time the permittee becomes aware of the circumstances and by written report within five days. The Department of Environmental Quality's Regional Office may waive the written report requirement on a case by case basis if the oral report has been received within 24 hours and no adverse impact on State waters has been reported.

3. The permittee shall report any unpermitted, unusual or extraordinary discharge which enters or could be expected to enter State waters. The permittee shall provide information specified in Part II.F.2.a-c. regarding each such discharge immediately, that is as quickly as possible upon discovery, however, in no case later than 24 hours. A written submission covering these points shall be provided within five days of the time the permittee becomes aware of the circumstances covered by this paragraph.

   Unusual or extraordinary discharge would include but not be limited to (1) unplanned bypasses, (2) upsets, (3) spillage of materials resulting directly or indirectly from processing operations or pollutant management activities, (4) breakdown of processing or accessory equipment, (5) failure of or taking out of service, sewage or industrial waste treatment facilities, auxiliary facilities or pollutant management activities, or (6) flooding or other acts of nature.

   If the Regional Office cannot be reached, the Department of Environmental Quality maintains a 24-hour telephone service in Richmond (804-527-5200) to which the report required above is to be made.

MANAGEMENT REQUIREMENTS

A. Change in Discharge or Management of Pollutants

1. Any permittee proposing a new discharge or the management of additional pollutants shall submit a permit application at least 180 days prior to commencing erection, construction, or expansion or employment of new pollutant management activities or processes at any facility. There shall be no commencement of treatment or management of pollutant activities until issuance of a permit.

2. All discharges or pollutant management activities authorized by this permit shall be made in accordance with the terms and conditions of the permit. The permittee shall submit to the Board a new application 180 days prior to all expansions, production increases, or process modifications, that will result in new or increased pollutants. The discharge or management of any pollutant more frequently than, or at a level greater than that identified and authorized by this permit, shall constitute a violation of the terms and conditions of this permit.

3. The permittee shall promptly provide written notice of the following:

   a. Any new introduction of pollutant(s), into treatment works or pollutant management activities which represents a significant increase in the discharge or management of pollutant(s) which may interfere with, pass through, or otherwise be incompatible with such works or activities, from an establishment, treatment works, or discharge(s), if such establishment, treatment works, or discharge(s) were discharging or has the potential to discharge pollutants to State waters; and,

   b. Any substantial change, whether permanent or temporary, in the volume or character of pollutants being introduced into such treatment works by an establishment, treatment works, pollutant management activities, or discharge(s) that was introducing pollutants into such treatment works at the time of issuance of the permit.

c. Any reason to believe that any activity has occurred or will occur which would result in the discharge on a routine or frequent basis of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

(1) One hundred micrograms per liter (100 ug/l);
(2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2, 4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
(3) Five times the maximum concentration value reported for the pollutant in the permit application; or
(4) The level established in accordance with regulation under 307(a) of the Act and accepted by the Director, Department of Environmental Quality.

d. Any activity has occurred or will occur which would result in any discharge on a non-routine or infrequent basis of a toxic pollutant which is not limited in the permit if that discharge will exceed the highest of the following "notification levels":

(1) Five hundred micrograms per liter (500 ug/l);
(2) One milligram per liter (1 mg/l) for antimony;
(3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application;
(4) The level established by the Director, Department of Environmental Quality.

Such notice shall include information on: (1) the characteristics and quantity of pollutants to be introduced into or from such treatment works or pollutant management activities; (2) any anticipated impact of such change in the quantity and characteristics of the pollutants to be discharged from such treatment works or pollutants managed at a pollutant management activity; and (3) any additional information that may be required by the Director, Department of Environmental Quality.

B. Operator Requirements

1. If specified in Part I of this permit, the permittee shall employ or contract at least one operator who holds a current wastewater license appropriate for the permitted facility or the pollutant management activity.

2. The permittee shall notify the Department of Environmental Quality's Regional Office in writing whenever he is not complying, or has grounds for anticipating he will not comply with the requirements in the above paragraph. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

C. Treatment Works Operation and Quality Control

1. Design and operation of facilities and/or treatment works and disposal of all wastes shall be in accordance with the application filed with the Department of Environmental Quality and in conformity with the conceptual design, or the plans, specifications, and/or other supporting data approved by the Director, Department of Environmental Quality. The approval of the treatment works conceptual design or the plans and specifications does not relieve the permittee of the responsibility of designing and operating the facility in a reliable and consistent manner to meet the facility performance requirements in the permit. If facility deficiencies, design and/or operational, are identified in the future which could affect the facility performance or reliability, it is the responsibility of the permittee to correct such deficiencies.

2. All waste collection, control, treatment, management of pollutant activities and disposal facilities shall be operated in a manner consistent with the following:

   a. At all times, all facilities and pollutant management activities shall be operated in accordance with the terms and conditions of the Certificate To Operate (CTO) and/or approved Operation and Maintenance (O&M) Manual, if applicable, and in a prudent and workmanlike manner so as to minimize upsets and discharges of excessive pollutants to State waters.

   b. The permittee shall provide an adequate operating staff which is duly qualified to carry out the operation, maintenance and testing functions required to insure compliance with the conditions of this permit.

c. Maintenance of treatment facilities or pollutant management activities shall be carried out in such a manner that the monitoring and/or limitation requirements are not violated.

d. Collected sludges shall be stored in such a manner as to prevent entry of those wastes (or runoff from the wastes) into State waters, and disposed of in accordance with this permit or plans approved by the Director, Department of Environmental Quality.

D. Adverse Impact

The permittee shall take all feasible steps to minimize any adverse impact to State waters resulting from noncompliance with any limitation(s) and/or conditions specified in this permit, and shall perform and report such accelerated or additional monitoring as is necessary to determine the nature and impact of the noncomplying limitation(s) and/or conditions.

E. Duty to Halt, Reduce Activity or to Mitigate

1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

2. The permittee shall take all reasonable steps to minimize, correct or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

F. Structural Stability

The structural stability of any of the units or parts of the facilities herein permitted is the sole responsibility of the permittee and the failure of such structural units or parts shall not relieve the permittee of the responsibility of complying with all terms and conditions of this permit.

G. Bypassing

Any bypass ("Bypass - means intentional diversion of waste streams from any portion of a treatment works") of the treatment works herein permitted is prohibited unless:

1. Anticipated Bypass - If the permittee knows in advance of the need for a bypass, the permittee shall notify the Department of Environmental Quality's Regional Office promptly at least 10 days prior to the bypass. After considering its adverse effects the Department of Environmental Quality's Regional Office Director may approve an anticipated bypass if:

   a. The bypass is unavoidable to prevent a loss of life, personal injury, or severe property damage ("Severe Property Damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.); and

   b. There are no feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated waste, or maintenance during normal periods of equipment down-time. However, if a bypass occurs during normal periods of equipment down-time, or preventive maintenance and in the exercise of reasonable engineering judgment the permittee could have installed adequate backup equipment to prevent such bypass, this exclusion shall not apply as a defense.

2. Unplanned Bypass - If an unplanned bypass occurs, the permittee shall notify the Department of Environmental Quality's Regional Office as soon as possible, but in no case later than 24 hours, and shall take steps to halt the bypass as early as possible. This notification will be a condition for defense to an enforcement action that an unplanned bypass met the conditions in Part III.G.1. above and in light of the information reasonably available to the owner at the time of the bypass.

H. <u>Conditions Necessary to Demonstrate an Upset</u>

A permittee may claim an upset as an affirmative defense to an action brought for noncompliance for only technology-based effluent limitations. In order to establish an affirmative defense of upset, the permittee shall present properly signed, contemporaneous operating logs or other relevant evidence that shows:

1. That an upset occurred and that the cause can be identified;

2. The facility permitted herein was at the time being operated efficiently and in compliance with proper operation and maintenance procedures;

3. The permittee submitted a notification of noncompliance as required by Part II.F. above; and

4. The permittee took all reasonable steps to minimize or correct any adverse impact to State waters resulting from noncompliance with the permit.

I. Compliance With State and Federal Law

Compliance with this permit during its term constitutes compliance with the State Water Control Law and the Clean Water Act except for any toxic standard imposed under Section 307(a) of the Clean Water Act.

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other State law or regulation or under authority preserved by Section 510 of the Clean Water Act.

J. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or Local Laws or regulations.

K. Severability

The provisions of this permit are severable.

L. Duty to Reapply

At least 180 days before the expiration date of this permit, unless permission for a later date has been granted by the Director, Department of Environmental Quality, the permittee shall submit a new application for a permit.

M. Right of Entry

The permittee shall allow authorized State and Federal representatives, upon the presentation of credentials:

1. To enter upon the permittee's premises on which the establishment, treatment works, pollutant management activities, or discharge(s) is located or in which any records are required to be kept under the terms and conditions of this permit;

2. To have access to inspect and copy at reasonable times any records required to be kept under the terms and conditions of this permit;

3. To inspect at reasonable times any monitoring equipment or monitoring method required in this permit;

4. To sample at reasonable times any waste stream, discharge, process stream, raw material or by-product; and,

5. To inspect at reasonable times any collection, treatment, pollutant management activities or discharge facilities required under this permit.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging or involved in managing pollutants. Nothing contained herein shall make an inspection time unreasonable during an emergency.

N. Transferability of Permits

This permit may be transferred to another person by a permittee if:

1. The current owner notifies the Department of Environmental Quality's Regional Office 30 days in advance of the proposed transfer of the title to the facility or property;

2. The notice to the Department of Environmental Quality's Regional Office includes a written agreement between the existing and proposed new owner containing a specific date of transfer of permit responsibility, coverage and liability between them; and

3. The Department of Environmental Quality does not within the 30-day time period notify the existing owner and the proposed owner of the State Water Control Board's intent to modify or revoke and reissue the permit.

Such a transferred permit shall, as of the date of the transfer, be as fully effective as if it had been issued directly to the new permittee.

O. Public Access to Information

All information pertaining to permit processing or in reference to any source of discharge of any pollutant, shall be available to the public, unless the information has been identified by the applicant as a trade secret, of which the effluent data remains open public information. All information claimed confidential must be identified as such at the time of submission to the Department of Environmental Quality and/or EPA. Otherwise, all information will be made available to the public. Not withstanding the foregoing, any supplemental information that the Department of Environmental Quality may obtain from filings made under the Virginia Toxics Substance Information Act (TSIA) shall be subject to the confidentiality requirements of TSIA.

P. Permit Modification

The permit may be modified when any of the following developments occur:

1. When additions or alterations have been made to the affected facility which require the application of permit conditions that differ from those of the existing permit or are absent from it;

2. When new information becomes available about the operation, pollutant management activity or discharge covered by this permit which was not available at permit issuance and would have justified the application of different permit conditions at the time of permit issuance;

3. When a change is made in the promulgated standards or regulations on which the permit was based;

4. When it becomes necessary to change final dates in compliance schedules due to circumstances over which the permittee has little or no control such as acts of God, materials shortages, etc. However, in no case may a compliance schedule be modified to extend beyond any applicable statutory deadline of the Clean Water Act;

5. When a variance is requested and after the granting of the variance by EPA;

6. When an effluent standard or prohibition for a toxic pollutant must be incorporated in the permit in accordance with provisions of Section 307(a) of the Clean Water Act;

7. When changes occur which are subject to "Reopener Clauses" in the permit;

8. When the permittee requests the Director, Department of Environmental Quality to allow "net limitations" to take into account pollutants in the permittee's intake water and the Director, Department of Environmental Quality agrees to allow the use of net limitations;

9. When changes occur in the development and implementation of a pretreatment program;

10. When the level of discharge of or management of a pollutant not limited in the permit exceeds applicable Water Quality Standards or the level which can be achieved by technology-based treatment requirements appropriate to the permittee;

11. When the permittee begins or expects to begin to use or manufacture any toxic pollutant not reported in the application; and

12. When other States were not notified of the change in the permit and their waters may be affected by the discharge.

Q. Permit Termination

After public notice and opportunity for a hearing, the permit may be terminated on any of the following grounds:

1. The permittee has violated any regulation or order of the State Water Control Board, any condition of a permit, any provision of the Law, or any order of a court, where such violation results in a release of harmful substances into the environment or poses a substantial threat of release of harmful substances into the environment or presents a hazard to human health or the violation is representative of a pattern of serious or repeated violations which in the opinion of the State Water Control Board, demonstrates the permittee's disregard for or inability to comply with applicable laws, regulations or requirements;

2. The permittee has failed to disclose fully all relevant material facts or has misrepresented a material fact in applying for a permit, or in any other report or document required under applicable laws or regulations;

3. The activity for which the permit was issued endangers human health or the environment and can be regulated to acceptable levels by modification or termination of the permit; or,

4. There exists a material change in the basis on which the permit was issued that requires either a temporary or a permanent reduction or elimination of any discharge controlled by the permit necessary to protect human health or the environment.

R. Civil and Criminal Liability

Except as provided in permit conditions on "bypassing" (Part III.G.), and "upset" (Part III.H.) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

S. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act or Sections 62.1-44.34(1) through 62.1-44.34(7) of the Law.

T. Unauthorized Discharge of Pollutants

Except in compliance with this permit, it shall be unlawful for any permittee to:

1. Discharge into State waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances, or

2. Otherwise alter the physical, chemical or biological properties of such State waters and make them detrimental to the public health, or to animal or aquatic life, or to the uses of such waters for domestic or industrial consumption, or for recreation, or for other uses.

Rec'd 3/23/12
CM

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462
(757) 518-2000 Fax (757) 518-2009
www.deq.virginia.gov

Doug Domenech
Secretary of Natural Resources

David K. Paylor
Director

Maria R. Nold
Regional Director

March 20, 2012

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

C.D. Holley
VP-Fossil & Hydro System Operations
Virginia Electric and Power Company
5000 Dominion Boulevard
Glen Allen, VA 23060

RE: Reissuance of VPDES Permit No. VA0004081
Dominion Chesapeake Energy Center
Chesapeake, VA 23320

Dear Mr. Holley:

The enclosed effluent limitations and monitoring requirements for the above referenced permit have been approved. Additionally, enclosed are copies of the fact sheet pages including public participation in the permitting process. Please replace the pages in fact sheet that you received with the draft permit with these pages.

Your permit is also enclosed. In accordance with the permit, you are required to submit monitoring reports to the following address:

Department of Environmental Quality (DEQ)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

The reporting forms are included with the permit. You will be responsible for obtaining additional copies of the reporting forms. The first report (DMR) is due for the month of April, 2012 by May 10, 2012. The first report (DMR) is due for the second quarter of 2012 by July 10, 2012. The first report (DMR) is due for the second semiannual period of 2012 by January 10, 2013. The first report (DMR) is due for the annual period of 2013 by January 10, 2014.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under Section 62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in Section 1.23(b) of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

DEQ has launched an e-DMR program that allows you to submit the effluent data electronically. We anticipate that in the near future all permittees will be participants in the e-DMR program. There are many benefits to both DEQ and the permittee when e-DMR is utilized for submissions:

1) Fewer revisions for data since the e-DMR program automatically flags omissions before the data is submitted;
2) Cost savings on postage, copying, and paper;
3) No concerns about using the most current DMR – e-DMR refreshes the required parameters automatically when changes are needed;
4) Submittals can be made on a timelier basis; and
5) Electronic signatures from multiple people are allowed and e-DMR can be accessed from multiple computer locations.

We ask that you apply for e-DMR participation now so that we will be able to complete the application process when your permit is effective. The following website provides details and our regional e-DMR administrator Debbie Kay, phone 757-518-2127, Deborah.kay@deq.virginia.gov can also assist you:

http://www.deq.virginia.gov/water/edmrfaq.html

If you have any additional questions, please do not hesitate to contact Melinda Woodruff at 757-518-2174.

Sincerely,

Mark H. Sauer
Water Permit Manager

MHS/

cc: DEQ - OWPP, TRO File
EPA - Region III (3WP12)

Encl: Permit No. VA00 04081
Revised Fact Sheet Pages

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004081	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 03/15/2012

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

OFFICIAL COPY

Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/DAY	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		2/M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	2.0	*********	MG/L		1/3M	GRAB
013 NITROGEN, TOTAL (AS N)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	NL	*********	MG/L		1/3M	GRAB
083 HEAT REJ**9	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	3.55	BTU/H	*********	*********	*********			CONT	REC
158 CL2, TOTAL FINAL	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	.021	.026	MG/L		2/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for Chlorine 0.1 mg/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004081	002
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 03/15/2012

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

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Oct 02 2019

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			2/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		2/M	GRAB
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30	50	MG/L		2/M	GRAB
005 CL2, TOTAL	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	.026	.026	MG/L		1/3M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	2.0	*********	MG/L		1/3M	GRAB
013 NITROGEN, TOTAL (AS N)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	NL	*********	MG/L		1/3M	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15	20	MG/L		2/M	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for chlorine - 0.1 mg/l, Ammonia-N 0.2 mg/l, Copper 5.0 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 03/15/2012

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	002
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

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Oct 02 2019

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
671 AMMONIA (AS NH3), TOTAL	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	NL	NL	MG/L		2/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for chlorine - 0.1 mg/l, Ammonia-N 0.2 mg/l, Copper 5.0 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004081	003
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 03/15/2012

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

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Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MGD	*********	*********	*********			1/6M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		1/6M	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	50	MG/L		1/6M	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/6M	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for TPH: DRO/GRO 0.5/0.5 mg/l, Copper 5.0 ug/l, Zinc 50 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004081	010
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 03/15/2012

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

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Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/6M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/6M	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/6M	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/6M	GRAB
405 LEAD, DISSOLVED	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
438 ARSENIC, DISSOLVED (UG/L AS AS)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for TSS 1.0 mg/l, TPH: DRO/GRO 0.5/0.5 mg/l, Copper 5.0 ug/l, Zinc 50 ug/l, Arsenic 50 ug/l, Lead 50 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 03/15/2012

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	011
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/YR	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********			*********	*********					
	REQRMNT	*********	********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for TSS 1.0 mg/l, TPH: DRO/GRO 0.5/0.5 mg/l, Copper 5.0 ug/l, Zinc 50 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004081	012
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 03/15/2012

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

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Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/YR	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********			*********	*********					
	REQRMNT	*********	********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for TSS 1.0 mg/l, TPH: DRO/GRO 0.5/0.5 mg/l, Copper 5.0 ug/l, Zinc 50 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004081	016
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 03/15/2012

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

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Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/3M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for TSS 1.0 mg/l, TPH: DRO/GRO 0.5/0.5 mg/l, Copper 5.0 ug/l, Zinc 50 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

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ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004081	017
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 03/15/2012

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/3M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for TSS 1.0 mg/l, TPH: DRO/GRO 0.5/0.5 mg/l, Copper 5.0 ug/l, Zinc 50 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004081	030
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 03/15/2012

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/YR	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for TPH: DRO/GRO 0.5/0.5 mg/l, TSS 1.0 mg/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004081	031
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 03/15/2012

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

OFFICIAL COPY

Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MGD	*********	*********	*********			1/YR	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
005 CL2, TOTAL	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for Chlorine 0.1 mg/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004081	101
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 03/15/2012

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

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Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/3M	EST
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30	100	MG/L		1/3M	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15	20	MG/L		1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004081	201
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 03/15/2012

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/M	EST
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30	100	MG/L		1/M	GRAB
019 COPPER, TOTAL (AS CU)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1	1	MG/L		1/M	GRAB
031 IRON, TOTAL (AS FE)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1	1	MG/L		1/M	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15	20	MG/L		1/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004081	206
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 03/15/2012

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MGD	*********	*********	*********			1/M	EST
005 CL2, TOTAL	REPORTD	*********	*********			*********	*********				
	REQRMNT	*********	*********		1.5	*********	*********	MG/L		1/M	GRAB
140 ENTEROCOCCI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	N/CML		1/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004081	301
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 03/15/2012

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

OFFICIAL COPY

Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				********	********	********				
	REQRMNT	*******	NL	MG	********	********	********			1/3M	EST
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	********	********		********	********					
	REQRMNT	********	********		********	********	30	MG/L		1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for TPH: DRO/GRO 0.5/0.5 mg/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of $32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluid/tape' is not allowed.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces have a requirement or limitation, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading".
   KG/DAY = Concentration (mg/L) x Flow (MGD) x 3.785 G/D (Grams/Day) = Concentration (mg/L) x Flow (MGD) x 3785
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. For all parameters enter the number of samples which do not comply with the maximum and/or minimum permit requirements in the "reported" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field. Include any Maximum 7-Day Average and Maximum Weekly Average violations in this field. Permittees with continuous pH, or temperature monitoring requirements should consult the permit for what constitutes an exceedance and report accordingly.
7. You are required to sample (at a minimum) according to the Sample Frequencies and Sample Types specified in your permit.
8. Enter the actual frequency of analysis for each parameter (number of times per day, week, month, etc.) in the "reported" space in the column marked "Frequency of Analysis".
9. Enter the actual type of sample (Grab, 8HC, 24HC, etc) collected for each parameter in the "reported" space in the column marked "Sample Type".
10. Enter additional required data or comments in the space marked "additional permit requirements or comments". If additional required data or comments are appended to the DMR, reference appended correspondence in this field.
11. Record the number of bypasses during the month, the total flow in million gallons (MG) and BOD5 in kilograms (KG) in the proper columns in the section marked "Bypasses and Overflows".
12. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator or if the operator in responsible charge of the facility is a licensed operator, the operator's signature and certificate number must be reported in the spaces provided.
13. The principal executive officer then reviews the form and must sign in the space provided and provide a telephone number where he/she can be reached. Every page of the DMR must have an original signature.
14. Send the completed form(s) with original signatures to your Department of Environmental Quality Regional Office by the 10th of each month unless otherwise specified in the permit.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements decribing causes and corrective actions taken. Reference each seperate violation by date.
17. If you have any questions, contact the Department of Environmental Quality Regional Office listed on the DMR.

24. **RECEIVING WATERS INFORMATION**: Refer to the State Water Control Board's Water Quality Standards [e.g., River Basin Section Tables (9 VAC 25-260-5 et seq.). **Use 9 VAC 25-260-140 C (introduction and numbered paragraph) to address tidal waters where fresh water standards would be applied or transitional waters where the most stringent of fresh or salt water standards would be applied.** Attach any memoranda or other information which helped to develop permit conditions (i.e. tier determinations, PReP complaints, special water quality studies, STORET data and other biological and/or chemical data, etc.

SEE ATTACHMENT 10

25. **305(b)/303(d) Listed Segments**: Indicate if the facility discharges to a segment that is listed on the current 303(d) list and, if so, provide all appropriate information/calculations.

This facility discharges directly to Deep Creek to the Southern Branch of the Elizabeth River and directly to the Southern Branch of the Elizabeth River. This receiving stream segment has been listed in Category 5 of the 305(b)/303(d) list for non-attainment of 1) dissolved oxygen standard for open water - summer months, 2) fish consumption due to PCB in fish tissue and Dioxin, 3) aquatic life use - benthic organisms. The permit contains a TMDL reopener clause which will allow the it to be modified, in compliance with Section 303(d)(4) of the Act once a TMDL is approved.

EPA approved the Enterococci TMDL on July 20, 2010 for the Elizabeth Watershed Report. The facility was not assigned an individual waste load allocation for Enterococci. EPA also approved Nitrogen, phosphorus and TSS TMDL for the Chesapeake Bay TMDL on December 29, 2010. This facility was listed under the Bay Segment SMEMH as a non-significant discharger. Because an aggregate WLA exists, this permit did not receive an individual WLA. The permit contains water quality based limits for TSS and TP. The permit contains monitoring for TN and Enterococci. The permit also contains a TMDL reopener to allow the permit to be modified in the future to address individual waste load allocations.

SEE ATTACHMENT 11

26. **CHANGES TO PERMIT**: Use **TABLE III(a)** to record any changes from the previous permit and the rationale for those changes. Use **TABLE III(b)** to record any changes made to the permit during the permit processing period and the rationale for those changes [i.e., use for comments from the applicant, VDH, EPA, other agencies and/or the public where comments resulted in changes to the permit limitations or any other changes associated with the special conditions or reporting requirements].

SEE ATTACHMENT 12

27. **NPDES INDUSTRIAL PERMIT RATING WORKSHEET**:

TOTAL SCORE: 600 **SEE ATTACHMENT 13**

28. **DEQ PLANNING COMMENTS RECEIVED ON DRAFT PERMIT**: Document any comments received from DEQ planning.

The discharge is in conformance with the existing planning documents for the area.

29. **PUBLIC PARTICIPATION**: Document comments/responses received during the public participation process. If comments/responses provided, especially if they result in changes to the permit, place in the attachment.

VDH/DSS COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the Virginia Dept. of Health and the Div. of Shellfish Sanitation and noted how resolved.

The VDH reviewed the application and waived their right to comment and/or object on the adequacy of the draft permit.

The DSS provided comments by letter dated September 19, 2011.

The project is located in condemned shellfish growing waters and the activity, as described, will not cause an increase in the size or type of the existing closure.

EPA COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the U.S. Environmental Protection Agency and noted how resolved.

EPA has no objections to the adequacy of the draft permit.

ADJACENT STATE COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from an adjacent state and noted how resolved.

Not Applicable.

OTHER AGENCY COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from any other agencies (e.g., VIMS, VMRC, DGIF, etc.) and noted how resolved.

Not Applicable.

OTHER COMMENTS RECEIVED FROM RIPARIAN OWNERS/CITIZENS ON DRAFT PERMIT: Document any comments received from other sources and note how resolved.

The application and draft permit have received public notice in accordance with the VPDES Permit Regulation. Section 9 VAC 35-31-310 of the VPDES Permit Regulation states, in part, "The Board shall hold a public hearing whenever it finds, on the basis of requests, a significant degree of public interest in a draft permit(s)."

Two comments were received during public notice. No public hearing date was scheduled based on these two comments.

SEE ATTACHMENT 15

PUBLIC NOTICE INFORMATION: Comment Period: Start Date February 17, 2012
End Date March 19, 2012

Persons may comment in writing or by e-mail to the DEQ on the proposed reissuance of the permit within 30 days from the date of the first notice. Address all comments to the contact person listed below. Written or e-mail comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The Director of the DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing and a brief explanation of how the requestor's interests would be directly and adversely affected by the proposed permit action.

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting Melinda Woodruff at: Department of Environmental Quality (DEQ), Tidewater Regional Office, 5636 Southern Boulevard, Virginia Beach, VA 23462. Telephone: 757-518-2174 E-mail: Melinda.Woodruff@deq.virginia.gov

Following the comment period, the Board will make a determination regarding the proposed reissuance. This determination will become effective, unless the Director grants a public hearing. Due notice of any public hearing will be given.

30. **ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:**

TABLE I

NUMBER AND DESCRIPTION OF OUTFALLS

OUTFALL NO.	DISCHARGE LOCATION	DISCHARGE SOURCE (1)	TREATMENT (2) (See attached)	FLOW (3 and 4)
001	36°45′45″ 76°18′15″	Discharge Canal which includes: Once through cooling water condenser, Units 1-4; Demineralized wastes (101); reverse osmosis concentrate; stormwater outfalls 013, 015, 018, 021; Hotwell dumps		519.5 MGD
101	Internal Outfall to 001	Demineralizer wastes and reverse osmosis waste to 001		0.128 MGD
002	36°45′45″ 76°18′15″	Ash pond; metals treatment basin (201); sewage treatment plant (206); low volume wastes from Units 1-3 including floor drains, boiler blowdown, slope wash, Mobotec dike drainage; Carbon canister backwash, fan blade rinsing, localized boiler tube rinsing, boiler clinker removal, turbine flush water; low volume waste Unit 4 including floor drains, boiler blowdown, slope wash, equipment washing, caustic/acid tank dikes, fan blade rinsing, localized boiler tube rinsing, boil clinker removal , turbine wash water, SCR dike; bottom ash sluice; Unit 3 economizer hopper; structural fill run off/leachate; ash silo sump including truck wash and PMI facility; coal pile runoff and coal dock wash water; and reverse osmosis concentrate		1.37 MGD

OUTFALL NO.	DISCHARGE LOCATION	DISCHARGE SOURCE (1)	TREATMENT (2) (See attached)	FLOW (3 and 4)
201	Internal Outfall to 002	Metals treatment basin (cleaning wastes including air preheater wash water, precipitator wash water, duct wash water, chemical boiler cleaning, other chemical cleaning		Batch Discharge
206	Internal Outfall to 002	Sewage Treatment Plant		0.009 MGD
004	36°46′15″ 76°18′0″	Screen backwash units 1&2		0.72 MGD
005	36°46′15″ 76°18′0″	Screen backwash units 3&4		0.87 MGD
007	36°46′15″ 76°18′0″	River recirculation pit sump units 1&2		0.029 MGD
008	36°46′15″ 76°18′0″	River recirculation pit sump unit 3		0.029 MGD
009	36°46′15″ 76°18′0″	River recirculation pit sump units 4		0.029 MGD
019	36°46′15″ 76°18′0″	Fish return line units 1&2		Varies
020	36°46′15″ 76°18′0″	Fish return line units 3&4		Varies
031	36°46′15″ 76°18′0″	Chlorination building (uncontaminated river water)		Drain plugged, has not discharged
003	36°46′30″ 76°18′0″	Coal pile runoff, bermed bulk fuel oil storage area runoff (301), combustion turbine area runoff, coal dock storm water and wash water overflow		0.062 MGD
301	36°46′30″ 76°18′0″	Storm water from bermed bulk fuel oil storage area		0.002 MGD valved and batch discharge

OUTFALL NO.	DISCHARGE LOCATION	DISCHARGE SOURCE (1)	TREATMENT (2) (See attached)	FLOW (3 and 4)
010	36°46′15″ 76°18′0″	Storm water from ash silos areas and truck wash		0.011 MGD
011	36°46′30″ 76°17′30″	Storm water from loop (rail) track area that includes construction maintenance laydown area (steel fabrication, portable diesel and gasoline storage, equipment storage, lime staging, south oil storage tank and material/ equipment/laydown)		0.010 MGD valved and batch discharge
012	36°46′30″ 76°18′0″	Storm water runoff from dismantled diesel tank diked area and loop track area		0.008 MGD Valved and batch discharge
013	36°46′0″ 76°18′15″	Storm water runoff from small area adjacent to the natural gas storage facility and haul road		0.001 MGD
015	36°46′15″ 76°18′15″	Storm water runoff from drainage area adjacent to and including the training center		0.001 MGD
016	36°46′15″ 76°18′0″	Storm water runoff from road providing ingress and egress for the ash silos, warehouse docks, sewage treatment building, ash haul road and scales, a laydown area, carbon burn out operations (CBO)		0.004 MGD
017	36°45′57″ 76°18′0″	Storm water runoff from portion of the warehouse roof, storage yard and ash haul road with possible groundwater associated		0.005

OUTFALL NO.	DISCHARGE LOCATION	DISCHARGE SOURCE (1)	TREATMENT (2) (See attached)	FLOW (3 and 4)
018	36°46′0″ 76°18′15″	Storm water runoff from the station and visitor parking areas, a substation adjacent to the visitor parking area, pavilion area, undeveloped area west of discharge canal, and east southeast area of the metals pond		0.083 MGD
021	36°46′15″ 76°18′15″	Storm water runoff from drainage area adjacent to, and including the front of the administration building		0.002 MGD
030	36°45′45″ 76°18′15″	Storm water runoff from the coal unloading dock		0.001 MGD Currently all water goes to the coal pile treatment pond there has been no discharge

(1) List operations contributing to flow
(2) Give brief description, unit by unit
(3) Give maximum 30-day average flow for industry - provided for in application
(4) Storm water flow estimates calculated using 0.011 ft average rainfall values, 0.9 runoff coefficient for impervious surfaces and 0.6 runoff coefficient for pervious surfaces.

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 001
Outfall Description: Once through condenser cooling water; demineralizer regeneration waste and reverse osmosis waste water (101); units 1-3 sump overflow; hotwell dumps
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3		NL	NA	NL	1/Day	Est
pH (S.U.)	3		NA	6.0	9.0	2/Month	Grab
Total Residual Chlorine (mg/l) [a] [b]	2		.021	NA	.026	2/Month	Grab
Total Phosphorus (mg/l)	3		2.0	NA	NA	1/3 Months	Grab
Total Nitrogen (mg/l)	3		NL	NA	NA	1/3 Months	Grab
Temperature (°C)	2		NA	NA	[c]	1/Year	[c]
Heat Rejection (BTU/HR)	3		3.55 x 10 (9)	NA	NA	Continuous	Recorded

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY
1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).
1/Year = Between January 1 and December 31.
Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.
[b] See Part I.D.15. for Total Residual Discharge Duration.
[c] See Part I.D.14 for Thermal Mixing Zone Requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

The basis for the limitations codes are:
1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 002
Outfall Description: Ash pond; metals treatment basin (201); sewage treatment plant (206); low volume wastes Units 1-3; low volume waste Unit 4; bottom ash sluice; Unit 3 economizer hopper; structural fill run off/leachate; ash silo sump including truck wash, PMI facility; coal pile/dock runoff; reverse osmosis concentrate
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3		NL	NA	NL	2/Month	Est
pH (S.U.)	3		NA	6.0	9.0	2/Month	Grab
Total Residual Chlorine (mg/l) [a]	2		.026	NA	.026	1/3 Months	Grab
Total Phosphorus (mg/l)	3		2.0	NA	NA	1/3 Months	Grab
Total Nitrogen (mg/l)	3		NL	NA	NA	1/3 Months	Grab
Oil & Grease (mg/l)	1		15	NA	20	2/Month	Grab
Total Suspended Solids (mg/l)	1		30	NA	50	2/Month	Grab
Ammonia (mg/l) [a]	3		NL	NA	NL	2/Month	Grab
Dissolved Copper (ug/l) [a] [b]	3		NA	NA	NL	1/6 Months	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.
[b] See Part I.B. for Boiler Cleaning/Metals Requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

The basis for the limitations codes are:

1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 003
Outfall Description: Regulated storm water from coal pile runoff, bermed bulk storage fuel area runoff (301), combustion turbine area runoff, and coal dock storm water and wash water overflow
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3		NA	NA	NL	1/6 Months	Est
pH (S.U.)	1		NA	6.0	9.0	1/6 Months	Grab
TSS (mg/l) [a]	1		NA	NA	50	1/6 Months	Grab
TPH (mg/l) [b] [c]	3		NA	NA	NL	1/6 Months	Grab
Dissolved Copper (ug/l) [b]	3		NA	NA	NL	1/6 Months	Grab
Dissolved Zinc (ug/l) [b]	3		NA	NA	NL	1/6 Months	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D.12. for overflow of untreated coal pile runoff from a 10-Year/24-Hour Storm.
[b] See Parts I.D.5. and I.D. 6. For quantification levels and reporting requirements.
[c] TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846

Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons. If both are "less than", then report the TPH as less than the sum of the two reporting limits (QLs) or <1.0 mg/L.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

The basis for the limitations codes are:

1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 010
Outfall Description: Storm water from areas surrounding ash silos and truck wash
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS [a]	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE [d]
Flow (MG)	3		NA	NA	NL	1/6 Months	Est [c]
pH (S.U.)	3		NA	NL	NL	1/6 Months	Grab
TSS (mg/l) [b]	3		NA	NA	NL	1/6 Months	Grab
TPH (mg/l) [b] [e]	3		NA	NA	NL	1/6 Months	Grab
Dissolved Copper (ug/l) [b]	3		NA	NA	NL	1/Year	Grab
Dissolved Arsenic (ug/l) [b]	3		NA	NA	NL	1/Year	Grab
Dissolved Lead (ug/l) [b]	3		NA	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [b]	3		NA	NA	NL	1/Year	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).
1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D.9.
[b] See Part I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.

[c] Estimate of the total volume of the discharge during the storm event.
[d] The grab samples shall be taken within the first hour but not later than 24 hours of the discharge.
[e] TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons. If both are "less than", then report the TPH as less than the sum of the two reporting limits (QLs) or <1.0 mg/L.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

The basis for the limitations codes are:

1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 031
Outfall Description: Uncontaminated river water from the chlorination building
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3		NA	NA	NL	1/Year	Est
pH (S.U.)	3		NA	NL	NL	1/Year	Grab
Total Residual Chlorine (ug/l) [a]	3		NA	NA	NL	1/Year	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

3. There shall be no discharge from strainer cleaning to this outfall.

The basis for the limitations codes are:
1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 101 (internal outfall to 001)
Outfall Description: Demineralizer regeneration wastes and reverse osmosis wastes
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3		NL	NA	NL	1/3 Months	Est
Oil & Grease (mg/l)	1		15	NA	20	1/3 Months	Grab
Total Suspended Solids (mg/l)	1		30	NA	100	1/3 Months	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

The basis for the limitations codes are:

1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 201
Outfall Description: Metals treatment basin
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS [a]	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3		NL	NA	NL	1/Month	Est
Total Suspended Solids (mg/l)	1		30	NA	100	1/Month	Grab
Oil & Grease (mg/l)	1		15	NA	20	1/Month	Grab
Total Copper (mg/l)	1		1	NA	1	1/Month	Grab
Total Iron (mg/l)	1		1	NA	1	1/Month	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

[a] Unless otherwise approved, the sample shall be collected at the tap in the recirculation line. No wastewater shall be added to the basin after sample is collected prior to discharge for the sample period (sample period is 30 days).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

The basis for the limitations codes are:

1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 206
Outfall Description: Sewage treatment plant
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3		NA	NA	NL	1/Month	Est
Total Residual Chlorine (mg/l) [a]	3		NA	1.5	NA	1/Month	Grab
Enterococci (N/100ml) [a]	3		NA	NA	NL	1/Month	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.C. for Alternative Disinfection and Enterococci Monitoring.

The basis for the limitations codes are:

1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 301
Outfall Description: Storm water from bermed bulk oil storage area
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MG)	3		NA	NA	NL	1/3 Months	Grab
TPH (mg/l) [a] [b]	3		NA	NA	30	1/3 Months	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.
[b] TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons. If both are "less than", then report the TPH as less than the sum of the two reporting limits (QLs) or <1.0 mg/L.

There should be no discharge of tank bottom waters.

The basis for the limitations codes are:
1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 004 and 005 (screen backwash units); 007, 008, and 009 (river recirculation pits); 019 and 020 (fish return lines)
Outfall Description: Discharge of unaltered waters as they are drawn from the source supply
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

THESE DISCHARGES SHALL ONLY CONTAIN RIVER WATER FROM THE SCREEN BACKWASH UNITS, RIVER RECIRCULATION PITS AND FISH RETURN LINES. NO PROCESS WATER SHALL BE DISCHARGED FROM THESE OUTFALLS. NO MONITORING IS REQUIRED

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 013, 015, 018 and 021
Outfall Description: Storm water not associated with a regulated industrial activity
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

THESE OUTFALLS SHALL ONLY CONTAIN STORM WATER NOT ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY WHERE NO MONITORING IS REQUIRED. NO PROCESS WATER SHALL BE DISCHARGED FROM THESE OUTFALLS.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

TABLE II - STORM WATER EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 011 and 012
Outfall Description: Regulated storm water runoff from industrial activity areas including the loop track area and fuel oil storage area
SIC CODE: 4911

NOTE: These outfalls represent storm event monitoring for existing process and/or non-process outfalls.

PARAMETER & UNITS	STORM CATEGORY 1-29* or BPJ	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
		MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE [b]
Flow (MG)	14	NA	NL	1/Year	Estimate
pH (S.U.)	14	NL	NL	1/Year	Grab
TSS (mg/l) [c]	14	NA	NL	1/Year	Grab
TPH (mg/l)[c][d]	BPJ	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [c]	14	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [c]	14	NA	NL	1/Year	Grab

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.F.1. for sampling methodology and reporting requirements.
[b] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.
[c] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.
[d] TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.

If both are "less than", then report the TPH as less than the sum of the two reporting limits (QLs) or <1.0 mg/L.

There shall be no discharge of tank bottom waters.
2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

The basis for the limitations codes are:

A. Technology (e.g., Federal Effluent Guidelines)
B. Water Quality Standards (9 VAC 25-260 et. seq.)
C. Best Professional Judgment

*STORM REGS.-- CATEGORIES THAT REQUIRE MONITORING: [PICK AS APPROPRIATE]

(1) Timber Products
(2) Paper & Allied Products
(3) Chemical & Allied Products
(4) Asphalt Paving/Roofing Materials & Lubricant
(5) Glass, Clay, Cement, Concrete & Gypsum Products
(6) Primary Metals
(7) Metal Mining (Ore Mining & Dressing)
(8) Coal Mines & Coal Mining Related
(9) Oil & Gas Extraction & Petroleum Refineries
(10) Hazardous Waste Treatment, Storage, Disposal
(11) Landfills, Land Application Sites & Open Dumps
(12) Automobile Salvage Yards
(13) Scrap/Waste Recycling
(14) Steam Electric Power Generating, Inc. Coal Handling Areas
(15) Motor Freight, Passenger, Rail, U.S. Postal Transportation & Petroleum Bulk Oil Stations and Terminals
(16) Water Transportation With Maintenance and/or Equipment Cleaning
(17) Ship/Boat Building or Repairing
(18) Vehicle Maintenance, Equipment Cleaning or Deicing Areas At Air Transportation Facilities
(19) Treatment Works
(20) Food & Kindred Products
(21) Textile Mills, Apparel & Other Fabric Products Mfg.
(22) Wood & Metal Furniture and Fixture Mfg.
(23) Printing & Publishing
(24) Rubber, Miscellaneous Plastic Products & Miscellaneous Mfg.
(25) Leather Tanning & Finishing
(26) Fabricated Metal Products
(27) Transportation Equipment, Industrial or Commercial Machinery Mfg.
(28) Electronic & Electrical Equipment and Components, Photographic & Optical Goods Mfg.
(29) Nonclassified Facilities

TABLE II - STORM WATER EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 016 and 017
Outfall Description: Regulated storm water runoff from an industrial activity area. (These outfalls are considered substantially identical; outfall 016 may be sampled as a representative outfall for outfall 017; sample results shall be reported for both outfalls.)
SIC CODE: 4911

NOTE: These outfalls represent storm event monitoring for existing process and/or non-process outfalls.

PARAMETER & UNITS	STORM CATEGORY 1-29* or BPJ	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
		MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE [c]
Flow (MG)	14	NA	NL	1/3 Months	Estimate [b]
pH (S.U.)	14	NL	NL	1/Year	Grab
TSS (mg/l)[d]	14	NA	NL	1/Year	Grab
TPH (mg/l)[d][e]	BPJ	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [d]	14	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [d] [f]	14	NA	NL	1/3 Months	Grab

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).
1/Year = Between January 1 and December 31.

These outfalls are considered substantially identical; 016 may be sampled for 017; sample results shall be reported for both outfalls.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.F.1. for sampling methodology and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.

[d] See Parts I.D.5. and I.D6. for quantification levels and reporting requirements, respectively.
[e] TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons. If both are "less than", then report the TPH as less than the sum of the two reporting limits (QLs) or <1.0 mg/L.
[f] See Part I.F. for Storm Water Evaluation requirements.

The basis for the limitations codes are:

A. Technology (e.g., Federal Effluent Guidelines)
B. Water Quality Standards (9 VAC 25-260 et. seq.)
C. Best Professional Judgment

*STORM REGS.-- CATEGORIES THAT REQUIRE MONITORING:

(1) Timber Products
(2) Paper & Allied Products
(5) Chemical & Allied Products
(6) Asphalt Paving/Roofing Materials & Lubricant
(6) Glass, Clay, Cement, Concrete & Gypsum Products
(6) Primary Metals
(8) Metal Mining (Ore Mining & Dressing)
(8) Coal Mines & Coal Mining Related
(9) Oil & Gas Extraction & Petroleum Refineries
(10) Hazardous Waste Treatment, Storage, Disposal
(11) Landfills, Land Application Sites & Open Dumps
(12) Automobile Salvage Yards
(13) Scrap/Waste Recycling
(14) Steam Electric Power Generating, Inc. Coal Handling Areas
(15) Motor Freight, Passenger, Rail, U.S. Postal Transportation & Petroleum Bulk Oil Stations and Terminals
(16) Water Transportation With Maintenance and/or Equipment Cleaning
(17) Ship/Boat Building or Repairing
(18) Vehicle Maintenance, Equipment Cleaning or Deicing Areas At Air Transportation Facilities
(19) Treatment Works
(20) Food & Kindred Products
(21) Textile Mills, Apparel & Other Fabric Products Mfg.
(22) Wood & Metal Furniture and Fixture Mfg.
(23) Printing & Publishing
(24) Rubber, Miscellaneous Plastic Products & Miscellaneous Mfg.
(25) Leather Tanning & Finishing
(26) Fabricated Metal Products
(27) Transportation Equipment, Industrial or Commercial Machinery Mfg.
(28) Electronic & Electrical Equipment and Components, Photographic & Optical Goods Mfg.
(29) Nonclassified Facilities

TABLE II - STORM WATER EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 030
Outfall Description: Regulated storm water runoff from an industrial activity area - coal unloading dock after the first 1.0 inches of precipitation is collected for treatment
SIC CODE: 4911

NOTE: These outfalls represent storm event monitoring for existing process and/or non-process outfalls.

PARAMETER & UNITS	STORM CATEGORY 1-29 or BPJ	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
		MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE [c]
Flow (MG)	14	NA	NL	1/Year	Estimate [b]
pH (S.U.)	14	NL	NL	1/Year	Grab
TSS (mg/l) [d]	14	NA	NL	1/Year	Grab
TPH (mg/l) [d] [e]	BPJ	NA	NL	1/Year	Grab

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.F.1. for sampling methodology and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.
[d] See Parts I.D.5 and I.D.6 for quantification levels and reporting requirements.
[e] TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons. If both are "less than", then report the TPH as less than the sum of the two reporting limits (QLs) or <1.0 mg/L.

The basis for the limitations codes are:

A. Technology (e.g., Federal Effluent Guidelines)
B. Water Quality Standards (9 VAC 25-260 et. seq.)
C. Best Professional Judgment

*STORM REGS.-- CATEGORIES THAT REQUIRE MONITORING:

(1) Timber Products
(2) Paper & Allied Products
(7) Chemical & Allied Products
(8) Asphalt Paving/Roofing Materials & Lubricant
(7) Glass, Clay, Cement, Concrete & Gypsum Products
(6) Primary Metals
(9) Metal Mining (Ore Mining & Dressing)
(8) Coal Mines & Coal Mining Related
(9) Oil & Gas Extraction & Petroleum Refineries
(10) Hazardous Waste Treatment, Storage, Disposal
(11) Landfills, Land Application Sites & Open Dumps
(12) Automobile Salvage Yards
(13) Scrap/Waste Recycling
(14) Steam Electric Power Generating, Inc. Coal Handling Areas
(15) Motor Freight, Passenger, Rail, U.S. Postal Transportation & Petroleum Bulk Oil Stations and Terminals
(16) Water Transportation With Maintenance and/or Equipment Cleaning
(17) Ship/Boat Building or Repairing
(18) Vehicle Maintenance, Equipment Cleaning or Deicing Areas At Air Transportation Facilities
(19) Treatment Works
(20) Food & Kindred Products
(21) Textile Mills, Apparel & Other Fabric Products Mfg.
(22) Wood & Metal Furniture and Fixture Mfg.
(23) Printing & Publishing
(24) Rubber, Miscellaneous Plastic Products & Miscellaneous Mfg.
(25) Leather Tanning & Finishing
(26) Fabricated Metal Products
(27) Transportation Equipment, Industrial or Commercial Machinery Mfg.
(28) Electronic & Electrical Equipment and Components, Photographic & Optical Goods Mfg.
(29) Nonclassified Facilities

ATTACHMENT 6, continued
EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS
RATIONALE & SUITABLE DATA

Outfall 001

The discharge conveyed through this outfall consists of the Discharge Canal which includes: Once through cooling water condenser, Units 1-4; Demineralized wastes (from internal outfall 101); reverse osmosis concentrate; stormwater outfalls 013, 015, 018, 021; and Hotwell dumps. Long term average flows 519 MGD. The monitoring frequency for measured or analyzed parameters shall be 2/month in conjunction with previous owner comments and discussion between staff and company reps and review of available facility data. These requirements are acceptable and allowable for Industrial Permits in the VPDES Permit manual and BPJ. This is also a monitoring frequency that is sufficient to determine compliance with the permit.

Flow: No limit, however daily monitoring is required by estimated sample. BPJ.

pH: 6.0 min-9.0 max SU, 2/Month by a grab sample. Limits based on BPJ.

Total Residual Chlorine: .021 mg/l monthly average - .026 mg/l maximum, 2/month by a grab sample. Limits based on WQS and Agency chlorine Advice dated 10-8-99.

Total Phosphorus: 2.0 mg/l monthly average, 1/3 months by a grab sample. Limit is based on BPJ referencing the NEW Policy (9 VAC 25-40-10 et seq.). Although the newest WQS does not designate these waters to be NEW, antibacksliding regulations do not allow the relaxation of a limitation if the relaxation of that limit would be based on new regulations. Monitoring frequency was reduced based on good compliance data for the last three years.

Total Nitrogen: No limit, however 1/3 months monitoring is required by a grab sample. Based on BPJ referencing NEW Policy (9 VAC 25-40-10 et seq.). Monitoring frequency was reduced based on compliance data for the last three years.

Temperature: A thermal mixing zone has been established and specifically defined as noted in the attached map. Monitoring shall be conducted 1/year during January or July. WQS must be met outside the specified zone. Site-specific thermal mixing zone language is contained in special condition.

Heat Rejection: 3.55 x 10 (9) BTU/HR monthly average and shall be monitored continuously. Limit is based on BPJ and memorandum 4-7-77 from W.L. Woodfin.

Outfall 003

The discharge conveyed through this outfall consists of storm water runoff and collected wash water from the coal pile area and collected storm water from the bulk oil storage berm area and combustion turbine area. The coal pile contribution to this outfall consists of overflow from the coal pile treatment pond. The coal pile treatment pond will receive flow from the coal pile and the first inch of storm water from the coal unloading dock, wash water from the coal unloading dock. The language regarding pet coke storage has been removed from this issuance per facility request. Flow volumes are estimated to be about .062 MGD when all sources are contributing to the outfall. The monitoring requirements are based on Federal Effluent Guidelines for the Steam Electric category including coal pile runoff, and OWRM Guidance memo #93-010A dated December 9, 1993, VPDES Permitting Strategy for Storm Water Discharges Associated with Industrial Activity" (steam electric power generating, Inc. coal handling facilities category. Since this discharge is no longer strictly storm water runoff storm water language will no longer apply and this outfall will be considered a combined storm water and process water discharge. In addition the special condition addressing "acid rain" and its effect on pH has been removed from this outfall as it is no longer strictly storm water. The storm water evaluation requirements will be removed and a conventional TMP and pollutant monitoring will apply.

Flow: No limit, however monitoring is required 1/6months by an estimate sample. Basis is BPJ for discharges at an industrial facility.

pH: 6.0 SU min and 9.0 SU max., 1/6months by a grab sample. Basis is Federal Effluent Guidelines (pH exception from precipitation event language has been removed).

Total Suspended Solids: 50 mg/l max, 1/6months by a grab sample. Limits based on federal effluent guidelines 40 CFR Part 423 for discharges from coal pile runoff.

TPH: No limit, however monitoring is required 1/6 months by a grab sample. Basis is BPJ and OWRM guidance #93-010A. TPH has been substituted for oil and grease because TPH is believed to be a more representative parameter for this type of industrial discharge than oil and grease. TPH is a good indicator parameter to determine if treatment and/or BMP's are effectively controlling pollutants from entering the discharge.

Dissolved Copper and Dissolved Zinc: No limit, however monitoring is required 1/6 months by a grab sample. Monitoring is based on BPJ for OWRM Guidance memo #96-001, "Storm Water Permitting" Agency storm water evaluation and evaluation of available water quality monitoring data.

Outfalls 004, 005, 007, 008, 009, 019, 020

The discharge conveyed through these outfalls consist of unaltered waters as they are drawn from the source supply: screen backwash (004 and 005), river recirculation pit water (007, 008, 009), and fish return line (019 and 020).

The river recirculation pits (007, 008, and 009) could contain chlorinated water. However, any chlorinated water is restricted in a closed loop and would not be discharged to the Elizabeth River.

These outfalls shall only contain river water from the screen backwash units and river recirculation pits. No process water shall be discharged from these outfalls. Special condition language shall prohibit debris collected from these units be returned to the river. NO MONITORING IS REQUIRED.

Outfalls 011 and 012

The discharges conveyed through these outfalls consist of regulated storm water runoff from industrial activity. Monitoring for all parameters except copper is based on OWRM guidance memorandum #93-010A. Copper is based on OWRM guidance memo #96-001 "Storm Water Permitting" (toxicity screening criteria for identified parameters). The sampling protocol for these discharges must be in accordance with OWRM guidance memo #93-010A (qualifying storm event and within the first hour of the discharge etc.). However, these outfalls are valved and discharge when manually released by station personnel. Therefore, depending on the frequency and duration of consecutive storm events, one discharge event could contain collected storm water from more than one rainfall event.

Flow: No limit, monitoring is required 1/year by an estimate sample. Based on guidance memo #93-010A (storm water category #14 Steam Electric Power Generating, Inc., Coal Handling Areas).

pH: No limit, monitoring is required 1/year by a grab sample. Based on OWRM guidance memo #93-010A storm water category #14).

Total Suspended Solids: No limit, monitoring is required 1/year by a grab sample. Based on OWRM guidance memo #93-010A (storm water category #14).

TPH: No limit, monitoring is required 1/year by a grab sample. Basis is BPJ and OWRM guidance #93-010A. TPH has been substituted for oil and grease because TPH is believed to be a more representative parameter for this type of industrial discharge than oil and grease. TPH is a good indicator parameter to determine if treatment and/or BMP's are effectively controlling pollutants from entering the discharge.

Dissolved Copper and Zinc
No limit, monitoring is required 1/year by a grab sample. Monitoring is based on BPJ for Guidance memo #96-001 "Storm Water Permitting" (toxicity screening criteria) Agency storm water evaluation and evaluation of available water quality monitoring data.

Outfall 030

The discharge conveyed through this outfall consists of regulated storm water runoff from industrial activity. The outfall discharges storm water over one inch from the coal unloading dock. The first inch of precipitation is captured and conveyed to the coal pile treatment system and will not be discharged through this outfall. At the present time all wastewaters are captured and sent through the coal pile treatment system to discharge through outfall 002 or 003. Monitoring for all parameters is based on OWRM guidance memorandum #93-010A. Monitoring frequency for all parameters for this outfall have been reduced to 1/Year based on compliance data and the lack of a regular discharge occurrence.

Flow: No limit, monitoring is required 1/Year by an estimate sample. Based on guidance memo #93-010A (storm water category #14 Steam Electric Power Generating, Inc., Coal Handling Areas).

pH: No limit, monitoring is required 1/Year by a grab sample. Based on OWRM guidance memo #93-010A storm water category #14).

Total Suspended Solids: No limit, monitoring is required 1/Year by a grab sample. Based on OWRM guidance memo #93-010A (storm water category #14) and BPJ. Because this discharges storm water from the coal dock and this discharges the fraction of the storm water runoff that will not be collected or treated, a limit was considered, but was not included because the first inch of storm water will be collected for treatment. Monitoring for TSS will determine if the collection strategy is sufficient to prevent solids, mainly coal fines, from entering the receiving stream.

TPH: No limit, monitoring is required 1/Year by a grab sample. Basis is BPJ and OWRM guidance #93-010A. TPH has been substituted for oil and grease because TPH is believed to be a more representative parameter for this type of industrial discharge than oil and grease. TPH is a good indicator parameter to determine if treatment and/or BMP's are effectively controlling pollutants from entering the discharge.

Outfall 031

The discharge conveyed through this outfall consists of uncontaminated river water from the chlorination building. The estimated flow is .0021 million gallons per year. Drain is plugged and has not discharged. No discharge from strainer cleaning is permitted to this outfall. Monitoring frequency for all parameters for this outfall have been reduced to 1/Year based on compliance data and the lack of a regular discharge occurrence.

Flow: No limit, monitoring is required 1/Year by an estimate. Based on BPJ for industrial facilities.

pH: No limit, monitoring is required 1/Year by a grab sample. Based on BPJ to protect water quality.

Total Residual Chlorine: No limit, monitoring is required at 1/Year. This is a BPJ determination to ensure chlorine is not being discharged at concentrations that would contravene water quality standards either through leaks or spills or during operations.

VPDES PERMIT PROGRAM
LIST OF SPECIAL CONDITIONS RATIONALE

Name of Condition:

B. Boiler /Metals Cleaning Requirements (from current permit)

Rationale: In accordance with the VPDES Permit Regulation, 9 VAC 25-31-210, the Board shall establish conditions, on a case-by-case basis, to provide for and assure compliance with the Water Control Law, the clean Water Act and regulations. In addition, 9 VAC 25-31-190 Section H. allows the Board to require the permittee to furnish information to determine the effects of a discharge on the quality of State waters. It was decided, based on best professional judgment, that the submittal of boiler cleaning data can be used to determine if the effects of the discharge require a limit for copper.

C. Alternative Disinfection and Enterococci Monitoring for Outfall 206

Rationale: Required by the State Water Control Law, section 62.1-44.14 (3a) and the State's Water quality Standards (9 VAC 25-260-140). In addition, the VPDES Permit Regulation, 9 VAC 25-31-220 D. and 40 CFR 122.44 (d) require limits necessary to meet water quality standards.

D. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1.a. Water Quality Standards Reopener

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-220 D requires effluent limitations to be established which will contribute to the attainment or maintenance of water quality criteria.

1.b. Nutrient Enriched Waters Reopener

Rationale: The Policy for Nutrient Enriched Waters, 9 VAC 25-40 -10 allows reopening of permits for discharges into waters designated as nutrient enriched if total phosphorus and total nitrogen in a discharge potentially exceed specified concentrations. The policy also anticipates that future total phosphorus and total nitrogen limits may be needed.

1.c. Total Maximum Daily Load (TMDL) Reopener

Rationale: For specified waters, Section 303(d) of the Clean Water Act requires the development of total maximum daily loads necessary to achieve the applicable water quality standards. The TMDL must take into account seasonal variations and a margin of safety. In addition, Section 62.1-44.19:7 of the State Water Control Law requires the development and implementation of plans to address impaired waters, including TMDLs. This condition allows for the permit to be either modified or, alternatively, revoked and reissued to incorporate the requirements of a TMDL once it is developed. In addition, the reopener recognizes that, in according to Section 402(o)(1) of the Clean Water Act, limits and/or conditions may be either more or less stringent than those contained in this permit. Specifically, they can be relaxed if they are the result of a TMDL,

basin plan or other wasteload allocation prepared under Section 303 of the Act.

2. Licensed Operator Requirement

Rationale: The Permit Regulation, 9 VAC 25-31-200 D and Code of Virginia 54.1-2300 et. seq., Rules and Regulations for Waterworks and Wastewater Works Operators (18 VAC 160-20-10 et seq.) requires licensure of operators.

3. Operations & Maintenance (O & M) Manual

Rationale: The State Water Control Law, Section 62.1-44.21 allows requests for any information necessary to determine the effect of the discharge on State waters. Section 401 of the Clean Water Act requires the permittee to provide opportunity for the state to review the proposed operations of the facility. In addition, 40 CFR 122.41 (e) requires the permittee, at all times, to properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) in order to achieve compliance with the permit (includes laboratory controls and QA/QC).

4. Notification Levels

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-200 and 40 CFR 122.42 (a) require notification of the discharge of certain parameters at or above specific concentrations for existing manufacturing, commercial mining and silvicultural discharges.

5. Quantification Levels Under Part I.A.

Rationale: States are authorized to establish monitoring methods and procedures to compile and analyze data on water quality, as per 40 CFR part 130, Water Quality Planning and Management, subpart 130.4. Section b. of the special condition defines QL and is included per BPJ to clarify the difference between QL and MDL.

6. Compliance Reporting Under Part I.A.

Rationale: Defines reporting requirements for toxic parameters and some conventional parameters with quantification levels to ensure consistent, accurate reporting on submitted reports.

7. Materials Handling and Storage

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-50 A., prohibits the discharge of any wastes into State waters unless authorized by permit. The State Water Control Law, Sec. 62.1-44.18:2, authorizes the Board to prohibit any waste discharge which would threaten public health or safety, interfere with or be incompatible with treatment works or water use. Section 301 of the Clean Water Act prohibits the discharge of any pollutant unless it complies with specific sections of the Act.

8. Cooling Water and Boiler Additives

Rationale: Chemical additives may be toxic or otherwise violate the receiving stream water quality standards. Upon notification, the

regional office can determine if this new additive will warrant a modification to the permit.

9. Outfall 010

Rationale: Best Professional Judgment to include clarification for interim and final limits at this outfall and to address periodic screen cleaning operations at this outfall.

10. Section 316(b) Phase II Requirements

The facility is required to be in compliance with existing 316(b) regulations. These regulations are scheduled for modification in 2012; at that time the permittee must meet any new requirements in the 316(b) regulation. The permit contains a reopener to allow the regulatory agency to modify the permit to include new 316(b) requirements once the regulation is finalized.

11. Polychlorinated Biphenyl (PCB) Compounds

Rationale: Federal Effluent Guidelines 40 CFR Part 423. The special condition language is as written in the previous permit.

12. Overflow of Untreated Coal Pile Runoff from a 10-Year/24-Hour Storm

Rationale: Federal Effluent Guidelines 40 CFR Part 423. The special condition language is as written in the previous permit.

13. Collected Debris for Trash Intake

Rationale: Best Professional Judgment to prevent collected debris on the intake trash and fish return lines from being returned to the receiving stream.

14. Mixing Zone Requirements

Rationale: Best Professional Judgment. This special condition and specific language for a mixing zone is based on an agreement between Virginia Power and the State Water Control Board. The agreement was reached some years ago and has been carried forward with this permit after review of the mixing zone boundaries and past data. The current boundaries are sufficient to protect the temperature standard at the mixing zone boundary lines.

15. Total Residual Chlorine Discharge Duration

Rationale: Federal Effluent Guidelines 40CFR Part 423.13 (b)(2).

16. Coal Unloading Dock Conditions and BMP's

Rationale: The Clean Water Act 402(p)(2)(B) requires permits for storm water discharges associated with industrial activity. VPDES permits for storm water discharges must establish BAT/BCT requirements in accordance with 402(p)(3) of the Act. The VPDES

Permit Regulation, 9 VAC 25-31-220 K., and 40 CFR 122.44 (k) allow BMPs for the control of toxic pollutants listed in Section 307 (a)(1), and hazardous substances listed in Section 311 of the Clean Water Act where BMPs are needed to accomplish the purpose/intent of the law. These conditions set forth additional site-specific storm water best management practices to reduce or minimize the discharge of pollutants to the receiving stream. Use of these conditions is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and DEQ's general permit for storm water associated with industrial activities and is consistent with those permits.

E. TOXICS MANAGENENT PROGRAM (TMP)

Rationale: To determine the need for pollutant specific and/or whole effluent toxicity limits as may be required by the VPDES Permit Regulation, 9 VAC 25-31-220 D. and 40 CFR 122.44 (d). See Attachment 9 of this fact sheet for additional justification.

F. STORM WATER MANAGEMENT CONDITIONS

1. Sampling Methodology for Specific Outfalls 010, 011, 012, 016, 017, 030

Rationale: Defines methodology for collecting representative effluent samples in conformance with applicable regulations.

2. Storm Water Management Evaluation

Rationale: The Clean Water Act 402(p) (2) (B) requires permits for storm water discharges associated with industrial activity. VPDES permits for storm water discharges must establish BAT/BCT requirements in accordance with 402(p)(3) of the Act. The Storm Water Pollution Prevention Plan is the vehicle proposed by EPA in the final NPDES General Permits for Storm Water Discharges Associated with Industrial Activity (Federal Register Sept 9, 1992) to meet the requirements of the Act. Additionally, the VPDES Permit Regulation, 9 VAC 25-31-220 K., and 40 CFR 122.44 (k) allow BMPs for the control of toxic pollutants listed in Section 307 (a)(1), and hazardous substances listed in Section 311 of the Clean Water Act where numeric limits are infeasible or BMPs are needed to accomplish the purpose/intent of the law.

Finally, the EPA produced a document dated August 1, 1996, entitled "Interim Permitting Approach for Water Quality- Effluent Limitations in Storm Water Permits". This document indicated that an interim approach to limiting storm water could be through the use of best management practices rather than numerical limits. EPA pointed out that Section 502 of the Clean Water Act (CWA) defined "effluent limitation" to mean "any restriction on quantities, rates, and concentrations of constituents discharged from point sources. The CWA does not say that effluent limitations need be numeric." The use of BMPs falls in line with the Clean Water Act which notes the need to control these discharges to the maximum extent necessary to mitigate impacts on water quality.

3. General Storm Water Conditions

a. Sample Type

Rationale: This stipulates the proper sampling methodology for qualifying rain events from regulated storm water outfalls. Use of this condition is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and is consistent with that permit.

b. Recording of Results

Rationale: This sets forth the information which must be recorded and reported for each storm event sampling (ie. date and duration event, rainfall measurement, and duration between qualifying events). It also requires the maintenance of daily rainfall logs which are to be reported. This condition is carried over from the previous storm water pollution prevention plan requirements contained in the EPA storm water baseline industrial general permit.

c. Sampling Waiver

Rationale: This condition allows the permittee to collect substitute samples of qualifying storm events in the event of adverse climatic conditions. Use of this condition is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and is consistent with that permit.

d. Representative Discharge

Rationale: This condition allows the permittee to submit the results of sampling from one outfall as representative of other similar outfalls, provided the permittee can demonstrate that the outfalls are substantially identical. Use of this condition is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and is consistent with that permit.

e. Quarterly Visual Examination of Storm Water Quality

Rationale: This condition requires that visual examinations of storm water outfalls take place at a specified frequency and sets forth what information needs to be checked and documented. These examinations assist with the evaluation of the pollution prevention plan by providing a simple, low cost means of assessing the quality of storm water discharge with immediate feedback. Use of this condition is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and is consistent with that permit.

f. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

Rationale: This condition requires that the discharge of hazardous substances or oil from a facility be eliminated or

minimized in accordance with the facility's storm water pollution prevention plan. If there is a discharge of a material in excess of a reportable quantity, it establishes the reporting requirements in accordance with state laws and federal regulations. In addition, the pollution prevention plan for the facility must be reviewed and revised as necessary to prevent a reoccurrence of the spill. Use of this condition is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and is consistent with that permit.

g. Allowable Non-Storm Water Discharges

Rationale: The listed allowable non-storm water discharges are the same as those allowed by the EPA in their multi-sector general permit, and are the same non-storm water discharges allowed under the Virginia General VPDES Permit for Discharges of Storm Water Associated with Industrial Activity, 9 VAC 25-151-10 et seq. Allowing the same non-storm water discharges in VPDES individual permits provides consistency with other storm water permits for industrial facilities. The non-storm water discharges must meet the conditions in the permit.

4. Storm Water Pollution Prevention Plan

Rationale: The Clean Water Act 402(p) (2) (B) requires permits for storm water discharges associated with industrial activity. VPDES permits for storm water discharges must establish BAT/BCT requirements in accordance with 402(p)(3) of the Act. The Storm Water Pollution Prevention Plan is the vehicle proposed by EPA in the final NPDES General Permits for Storm Water Discharges Associated with Industrial Activity (Federal Register Sept 9, 1992) to meet the requirements of the Act. Additionally, the VPDES Permit Regulation, 9 VAC 25-31-220 K., and 40 CFR 122.44 (k) allow BMPs for the control of toxic pollutants listed in Section 307 (a)(1), and hazardous substances listed in Section 311 of the Clean Water Act where numeric limits are infeasible or BMPs are needed to accomplish the purpose/intent of the law.

5. Facility-specific Storm Water Management Conditions

Rationale: These conditions set forth additional site-specific storm water pollution prevention plan requirements. Use of these conditions is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and DEQ's general permit for storm water associated with industrial activities and is consistent with those permits.

E. TOXICS MANAGEMENT PROGRAM (TMP)

1. Biological Monitoring

a. In accordance with the schedule in E.2.below, the permittee shall conduct annual toxicity tests for the duration of the permit.
The permittee shall collect a grab sample of final effluent from outfalls 001 and 002 in accordance with the sampling methodology in Part I.A. of this permit. The grab samples for toxicity testing shall be taken at the same time as the monitoring for the outfalls in Part 1.A. of this permit. Annual acute and chronic tests shall be conducted for outfalls 001 and 002. The tests to use are:

48 Hour Static Acute test using Americamysis bahia

Chronic Static Renewal 7-day Survival and Growth Test with Americamysis bahia

The permittee shall collect grab samples of final effluent from outfall 003 in accordance with the sampling methodology in Part I.A. of this permit. The grab samples for toxicity testing shall be taken at the same time as the monitoring for the outfalls in Part 1.A. of this permit. Annual acute tests shall be conducted for outfall 003. The acute test to use is:

48 Hour Static Acute test using Americamysis bahia

b. The acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50}. Express the results as TU_a (Acute Toxic Units) by dividing 100/ LC_{50} for reporting.

The chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and growth. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for reporting. Report the LC50 at 48 hours and the IC25 with the NOEC's in the test report.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

c. In the event that sampling of any of the outfalls is not possible due to the absence of effluent flow during a

F. STORM WATER MANAGEMENT CONDITIONS

1. Sampling Methodology for Specific Outfalls 010, 011, 012, 016, 017, 030

The following shall be required when obtaining samples required by Part I.A. of this permit:

a. At the time of sampling, the permittee shall ensure that the effects of tidal influences are kept to an absolute minimum. This can be achieved by:

(1) Sampling at low tide and/or

(2) Sampling at a representative point which has been demonstrated to be free of tidal influences

b. In the event that sampling of an outfall is not possible due to the absence of effluent flow during a particular testing period, the permittee shall provide written notification to DEQ Tidewater Regional Office with the DMR for the month following the period in which samples were to be collected.

2. Storm Water Management Evaluation

The Storm Water Pollution Prevention Plan (SWP3), which is to be developed and maintained in accordance with Part I.F.4 of this permit, shall have a goal of reducing pollutants discharged at all the regulated storm water outfalls.

a. Pollutant Specific Screening

The goal shall place emphasis on reducing, to the maximum extent practicable, the following screening criteria parameters in the outfalls noted below.

OUTFALL NO.	POLLUTANTS
016 and 017	Dissolved Zinc

b. Toxicity Screening

The permittee shall conduct **annual acute toxicity tests** on outfalls 011, 012, and 016 using grab samples of final effluent. These acute screening tests shall be 48-hour static tests using Americamysis bahia, conducted in such a manner and at sufficient dilutions for calculation of a valid LC50.
The permittee shall conduct **annual acute toxicity tests** on outfall 030 using grab samples of final effluent. The acute screening test shall be 48-hour static tests using Americamysis bahia and Cyprinodon variegatus,

TABLE III(a)

VPDES PERMIT PROGRAM
Permit Processing Change Sheet

1. Effluent Limits and Monitoring Schedule: (List any changes FROM PREVIOUS PERMIT and give a brief rationale for the changes).

OUTFALL NUMBER	PARAMETER CHANGED	MONITORING LIMITS CHANGED FROM / TO	EFFLUENT LIMITS CHANGED FROM / TO	RATIONALE	DATE & INITIAL
002 and 003	Total Chromium, hex chromium, total phenolics, dissolved nickel, total vanadium	1/6 months to removed from permit	NL to removed from permit	Not a possible source because Petroleum coke is not stored on site or will not be stored on site during this permit term, per facility's request	11/1/11 MYW
001 and 002	Total Phosphorus and Nitrogen	2/Month	1/3 Months	Good compliance data	2/6/12 MYW
030 and 031	All Parameters	1/6 months	1/Year	Good Compliance data	2/6/12 MYW

OTHER CHANGES FROM:	CHANGED TO:	DATE & INITIAL
QLs listed in special condition for total chromium, total phenolics, dissolved nickel, total vanadium.	None	11/1/11 MYW
Footnote [c] for Outfall 002 and footnote [e] Outfall 003 (on limits pages)	None	11/1/11 MYW
Part I.A.2 Outfalls 101, 201, 206, and 301	None. Requirements are on the final outfalls.	2/6/12 MYW
Footnote [e] for Outfalls 003, 010, 016, 017, 030; Footnote [b] for Outfall 301; Footnote [d] for Outfalls 011 and 012	Add standard language regarding testing for TPH	11/1/11 MYW
QL List in special conditions	Added TPH (DRO/GRO) 0.5 mg/l /0.5 mg/l, per facility's request	11/1/11 MYW
Footnote [b] for Outfall 011 and 012	None; Valved discharge	2/6/12 MYW

OTHER CHANGES FROM:	CHANGED TO:	DATE & INITIAL
Footnote [a] and [b] for Outfall 003; [c] changed to [a], [d] changed to [b] etc.	None	2/7/12 MYW
Reference to Part I.F.1 in Part I.E.1.a	Removed, no longer strictly storm water only outfall	2/7/12 MYW
Reference to Outfall 003 in Part 1.F.1.	Removed, not longer strictly storm water only outfall	2/7/12 MYW
Footnote [a] for Outfall 201	Added Sample period is 30 days, as agreed upon during site visit	11/1/11 MYW
Special Condition E.1.and 2. for TMP - Outfall 010 required	Outfall 010 removed from the requirement for the special condition E.1 and 2. For TMP	11/1/11 MYW
Special Condition F.4.e. - 313 chemicals	Removed language regarding 313 Water Priority Chemicals and moved Requirements for Salt Storage from F.4.e.(2) to F.4.3.	2/9/12 MYW
Special Condition F.3.f. - old language	Current language from permit manual, 2011	2/9/12 MYW

Woodruff, Melinda (DEQ)

From: Woodruff, Melinda (DEQ)
Sent: Monday, March 05, 2012 8:49 AM
To: 'Alison Vicks'
Subject: RE: Request for Proposed Permit No. VPDES Permit for Chesapeake Energy Center
Attachments: Dominion Chesapeake Energy Center Draft Permit VA0004081.pdf

Ms. Vicks,
I have attached per your request the draft of the proposed VPDES permit for the above mentioned facility.

Sincerely,
Melinda Woodruff
Water Permits
DEQ TRO
(757) 518-2174

From: Alison Vicks [mailto:alison.vicks@sierraclub.org]
Sent: Friday, March 02, 2012 3:37 PM
To: Woodruff, Melinda (DEQ)
Subject: Request for Proposed Permit No. VPDES Permit for Chesapeake Energy Center

Dear Ms. Woodruff,

Can you please send me an electronic copy of the proposed VPDES permit for Chesapeake Energy Center, Permit No. VPDES VA0004081?

Thank you,

Alison Vicks
Program Assistant
Sierra Club Environmental Law Program
50 F Street, NW - 8th Floor
Washington, DC 20001
P: (202) 650-6067
F: (202) 547.6009
Alison.Vicks@sierraclub.org

Woodruff, Melinda (DEQ)

From: Woodruff, Melinda (DEQ)
Sent: Wednesday, February 22, 2012 1:16 PM
To: 'wile11@cox.net'
Subject: RE: environmental permit

Darlene and William Wile,

Thank you for your comments and concerns regarding the Public Notice for Dominion Chesapeake Energy Center's Industrial Discharge Permit. The owner is applying for the reissuance of a discharge permit. The industry is downstream from where you live, from your description in your email. This industry has been in operation at this location for over 30 years. The discharge is ninety percent non-contact cooling water and storm water from the site. This non-contact cooling water is water that has been drawn from the river, used for cooling the systems, and then put back into the river. The cooling water does not contact any process equipment, and the discharge is not sewage.

We do understand your concern with water quality and the effects of industry on the river. The Department of Environmental Quality oversees the Virginia Pollutant Discharge Elimination System program for EPA as put forth in the Clean Water Act. As regulators, we require the industry to follow the permits that are written specifically for their particular discharges that may occur from their facility. The owner is required to complete an application and is held to very specific and strict limits for its discharges in order to protect water quality. I can provide you with a copy of the proposed permit for Dominion Chesapeake Energy Center if you would like to see this. We are not involved with the City of Chesapeake's handling of the storm water drains, ponds, ditches or mosquito control.

Regarding the activities along the Elizabeth River over the past seven years, your request for information and reports may be best handled outside of this public notice. For more specific information regarding activities along the Elizabeth River please e-mail our FOIA group at trofoias@deq.virginia.gov. Please be as specific as possible in what you are looking for in order to provide you with the most up-to-date information.

Sincerely,

Melinda Woodruff
Water Permits
DEQ TRO
(757) 518-2174

-----Original Message-----
From: wile11@cox.net [mailto:wile11@cox.net]
Sent: Friday, February 17, 2012 12:57 PM
To: Woodruff, Melinda (DEQ)
Subject: environmental permit

I wish to express my concerns about more dumping of waste water into the Southern branch of the Elizabeth River.
My name is Darlene Wile and my husband Bill and I have made numerous complaints, about storm and waste water problems we have been dealing with since we have lived at this address over the past 7 years.
Our home is located along 464 @ Barns Rd. and we discovered years ago that storm and at times sewage waste water during flash floods comes up in our backyard. After several years of complaints, The city of Chesapeake sent inmates to hand dig a ditch that city officials ignorantly call drainage and told us that will help.

Now the situation is worse. The ditch is not pitched as it should be to allow the water to flow downhill into Jones Creek at the end of our property, but now its a 500 ft. line of peaks and valleys where the water lays in ponded patches and not only is an eyesore to our home but also allows a mosquito farm almost year round.
We are so tired of begging everyone from the City of Chesapeake, the Chesapeake Bay Preservation, the DEQ, Board of Health, etc., etc., I can't even remember how many times we have asked for help. My husband has a stack of paperwork about a foot high of complaints and work orders to the public offices. It seems its all a run around. Nobody knows.
All we ever get is people coming out, looking and saying they'll get right on it. They pass it on to another dept. We wait, and wait. And wait. And wait. When each department passes off, they act like they did something to help. They did nothing.
Actually we never hear anymore after false promises, or in my book, Lies. So many times we walk out the door in the morning and the STENCH that comes from the industries across the highway can take your breath away and give you a headache. I don't care what anyone says, this can not be healthy. Then here we are again. Lets just give them permission to dump only God knows what else in the River. I'm not allowed to dump anything in the river. The city sends mosquito control on my property without my permission, trying to find a cup full of standing water in my birdbaths etc., yet its O K for them to leave mosquito infested ponds in several areas of MY property and never come back like they promise and dig theses ditches so they will run downhill and drain. If the local industries are allowed to dump more TREATED waste, what is it treated with exactly? What volatile compounds, and at what percentage do I now have ponding in my yard? When I grow vegetables in my yard what am I eating? Can you guarantee nobody in my family can possibly get cancer from the Elizabeth River soaked grounds? Worse than ever, since the city of Chesapeake put their ignorant Supervisors to the task of fixing something they are not qualified or knowledgeable to do. After all children know water runs downhill, not uphill.
Would you feel safe and be happy having all of this washed up and standing in your yard ? At times when flash floods come with the rains, and the Elizabeth River plus all the storm water drains from the surrounding streets floods , even the sewage waste water has been washed up in our walking areas around our house. Is it true that as long as they (these industries) pay for a permit, that they will be allowed to just keep dumping? Do I have to try to contact someone like Erin Brockovitch? What do honest, hardworking people who pay 4,000.00 dollars a year in homeowner taxes have to do to protect themselves from being DUMPED ON by corruption and corporations? Where does it end? If the right of information act applies, I want to see the reports from the past 7 years of what and how, people are dumping in my yard by way of the Elizabeth River. I am obviously not happy and will not stand for one more,"it really is nothing just a formality because we have to publish that they are renewing a lease". Again would you want this in your yard, where your babies play? WE DON"T.
Response to this email can be made to:
Darlene and William Wile
628 Old Barnes Rd.
Chesapeake, Va. 23324
757 333-3089

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462
(757) 518-2000 Fax (757) 518-2009
www.deq.virginia.gov

Doug Domenech
Secretary of Natural Resources

David K. Paylor
Director

Maria R. Nold
Regional Director

Permit No: VA0004081
Effective Date: March 20, 2012
Expiration Date: March 19, 2017

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this cover page, and Parts I and II of this permit, as set forth herein.

Owner: Dominion Virginia Power
Facility Name: Chesapeake Energy Center
City: Chesapeake
County: NA
Facility Location: 2701 Vepco Street, Chesapeake, VA 23320

The owner is authorized to discharge to the following receiving stream:

Stream: See Attached
River Basin:
River Subbasin:
Section:
Class:
Special Standards:

Maria R. Nold

Maria R. Nold

March 20, 2012

Date

Permit No. VA0004081

ATTACHMENT I

Outfall No(s).	Receiving Stream
001 (incl. 101), 002 (incl. 201, 206) 013, 015, 018, 021	Receiving Stream: Deep Creek to the Southern Branch of the Elizabeth River Basin: James River (Lower) Subbasin: NA Section: 1d Class: II Special Standards: a, z
003 (incl. 301), 004 005, 007, 008, 009, 010 011, 012, 016, 017, 019 020, 030, 031	Receiving Stream: Southern Branch of the Elizabeth River Basin: James River (Lower) Subbasin: NA Section: 1d Class: II Special Standards: a, z

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 001 (Once through condenser cooling water; demineralizer regeneration waste water and reverse osmosis waste water (101); units 1-3 sump overflow; hotwell dumps).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Day	Estimate
pH (S.U.)	NA	NA	6.0	9.0	2/Month	Grab
Total Residual Chlorine (mg/l) [a] [b]	.021	NA	NA	.026	2/Month	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	1/3 Months	Grab
Total Nitrogen (mg/l)	NL	NA	NA	NA	1/3 Months	Grab
Temperature (°C)	NA	NA	NA	[c]	1/Year	[c]
Heat Rejection (BTU/HR)	$3.55 \times 10^{(9)}$	NA	NA	NA	Continuous	Recorded

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/Year = Between January 1 and December 31.
1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.
[b] See Part I.D.15. for Total Residual Discharge Duration.
[c] See Part I.D.14. for Thermal Mixing Zone Requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 101 (Demineralizer regeneration wastes and reverse osmosis wastes).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/3 Months	Estimate
Oil & Grease (mg/l)	15	NA	NA	20	1/3 Months	Grab
Total Suspended Solids (mg/l)	30	NA	NA	100	1/3 Months	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 002 (Ash pond; metals treatment basin (201); sewage treatment plant (206); low volume waste Units 1-3; low volume waste Unit 4; bottom ash sluice; Unit 3 economizer hopper; structural fill run off/leachate; ash silo sump including truck wash, PMI facility; coal pile runoff(incl. coal dock runoff and coal dock wash water); reverse osmosis concentrate).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	2/Month	Estimate
pH (S.U.)	NA	NA	6.0	9.0	2/Month	Grab
Total Residual Chlorine (mg/l) [a]	.026	NA	NA	.026	1/3 Months	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	1/3 Months	Grab
Total Nitrogen (mg/l)	NL	NA	NA	NA	1/3 Months	Grab
Oil & Grease (mg/l)	15	NA	NA	20	2/Month	Grab
Total Suspended Solids (mg/l)	30	NA	NA	50	2/Month	Grab
Ammonia (mg/l) [a]	NL	NA	NA	NL	2/Month	Grab
Dissolved Copper (ug/l) [a] [b]	NA	NA	NA	NL	1/6 Months	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).
1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31)

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.
[b] See Part I.B. for Boiler Cleaning/Metals Requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 201 (Metals treatment basin).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS [a]	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
Total Suspended Solids (mg/l)	30	NA	NA	100	1/Month	Grab
Oil & Grease (mg/l)	15	NA	NA	20	1/Month	Grab
Total Copper (mg/l)	1	NA	NA	1	1/Month	Grab
Total Iron (mg/l)	1	NA	NA	1	1/Month	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] Unless otherwise approved, the sample shall be collected at the tap in the recirculation line. No wastewater shall be added to the basin after sample is collected prior to discharge for the sample period (sample period is 30 days).

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 206 (Sewage treatment plant).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS [a]	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NA	NA	NA	NL	1/Month	Estimate
Total Residual Chlorine (mg/l) [a]	NA	NA	1.5	NA	1/Month	Grab
Enterococci (N/100ml) [a]	NA	NA	NA	NL	1/Month	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.C. for Alternative Disinfection and Enterococci Monitoring.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 003 (Regulated storm water from coal pile runoff, bermed bulk storage fuel area runoff (301), combustion turbine area runoff, and coal dock storm water and wash water overflow).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NA	NA	NA	NL	1/6 Months	Estimate
pH (S.U.)	NA	NA	6.0	9.0	1/6 Months	Grab
Total Suspended Solids (mg/l) [a]	NA	NA	NA	50	1/6 Months	Grab
Total Petroleum Hydrocarbons (mg/l) [b] [c]	NA	NA	NA	NL	1/6 Months	Grab
Dissolved Copper (ug/l) [b]	NA	NA	NA	NL	1/6 Months	Grab
Dissolved Zinc (ug/l) [b]	NA	NA	NA	NL	1/6 Months	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31)

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D.12. for overflow of untreated coal pile runoff from a 10-Year/24-Hour Storm.
[b] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements.
[c] TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons. If both are "less than", then report the TPH as less than the sum of the two reporting limits (QLs) or <1.0 mg/L.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 301 (Storm water from bermed bulk oil storage area).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NA	NA	NL	1/3 Months	Estimate
Total Petroleum Hydrocarbons (mg/l) [a] [b]	NA	NA	NA	30	1/3 Months	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.
[b] TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons. If both are "less than", then report the TPH as less than the sum of the two reporting limits (QLs) or <1.0 mg/L.

There shall be no discharge of tank bottom waters.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 004 and 005 (screen backwash units); 007, 008, and 009 (river recirculation pits); 019 and 020 (fish return lines)- Unaltered waters as they are drawn from the source supply.

   Such discharges shall be limited and monitored by the permittee as specified below:

THESE OUTFALLS SHALL CONTAIN ONLY RIVER WATER FROM THE SCREEN BACKWASH UNITS, RIVER RECIRCULATION PITS AND FISH RETURN LINES. NO PROCESS WASTEWATER SHALL BE DISCHARGED FROM THESE OUTFALLS. NO MONITORING REQUIRED.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 010 (storm water from surrounding ash silos and truck wash).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS [a]	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type[d]
Flow (MG)	NA	NA	NA	NL	1/6 Months	Estimate [c]
pH (S.U.)	NA	NA	NL	NL	1/6 Months	Grab
Total Suspended Solids (mg/l)[b]	NA	NA	NA	NL	1/6 Months	Grab
Total Petroleum Hydrocarbons (mg/l) [b] [e]	NA	NA	NA	NL	1/6 Months	Grab
Dissolved Copper (ug/l) [b]	NA	NA	NA	NL	1/Year	Grab
Dissolved Arsenic (ug/l) [b]	NA	NA	NA	NL	1/Year	Grab
Dissolved Lead (ug/l) [b]	NA	NA	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [b]	NA	NA	NA	NL	1/Year	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31)
1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D.9.
[b] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.
[c] Estimate of the total volume of the discharge during the storm event.
[d] The grab samples shall be taken within the first hour but not later than 24 hours of the discharge.
[e] TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons. If both are "less than", then report the TPH as less than the sum of the two reporting limits (QLs) or <1.0 mg/L.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 011 and 012 (Regulated storm water runoff from industrial activity areas including the loop track area and fuel oil storage area).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
	Minimum	Maximum	Frequency	Sample Type[b]
Flow (MG)	NA	NL	1/Year	Estimate
pH (S.U.)	NL	NL	1/Year	Grab
Total Suspended Solids (mg/l) [c]	NA	NL	1/Year	Grab
Total Petroleum Hydrocarbons (mg/l) [c] [d]	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [c]	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [c]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.F.1. for sampling methodology and reporting requirements.
[b] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.
[c] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.
[d] TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons. If both are "less than", then report the TPH as less than the sum of the two reporting limits (QLs) or <1.0 mg/L.
There shall be no discharge of tank bottom waters.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 013, 015, 018, and 021 (storm water runoff)

   Such discharges shall be limited and monitored by the permittee as specified below:

   THESE OUTFALLS SHALL CONTAIN ONLY STORM WATER RUNOFF NOT ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY WHERE NO MONITORING IS REQUIRED. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 016 and 017 (Regulated storm water runoff from an industrial activity area). (These outfalls are considered substantially identical; outfall 016 may be sampled as a representative outfall for outfall 017; sample results shall be reported for both outfalls.)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
	Minimum	Maximum	Frequency	Sample Type[c]
Flow (MG)	NA	NL	1/3 Months	Estimate [b]
pH (S.U.)	NL	NL	1/Year	Grab
Total Suspended Solids (mg/l) [d]	NA	NL	1/Year	Grab
Total Petroleum Hydrocarbons (mg/l) [d] [e]	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [d]	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [d] [f]	NA	NL	1/3 Months	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).
1/Year = Between January 1 and December 31.
Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.F.1. for sampling methodology and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.
[d] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.
[e] TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons. If both are "less than", then report the TPH as less than the sum of the two reporting limits (QLs) or <1.0 mg/L.
[f] See Part I.F. for Storm Water Evaluation requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 030 (Regulated storm water runoff from an industrial activity area - coal unloading dock after the first 1.0 inches of precipitation is collected for treatment).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
	Minimum	Maximum	Frequency	Sample Type[c]
Flow (MG)	NA	NL	1/Year	Estimate [b]
pH (S.U.)	NL	NL	1/Year	Grab
Total Suspended Solids (mg/l) [d]	NA	NL	1/Year	Grab
Total Petroleum Hydrocarbons (mg/l) [d] [e]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.F.1. for sampling methodology and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.
[d] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.
[e] TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons. If both are "less than", then report the TPH as less than the sum of the two reporting limits (QLs) or <1.0 mg/L.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 031 (Chlorination Building - uncontaminated river water).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NA	NL	1/Year	Estimate
pH (S.U.)	NL	NL	1/Year	Grab
Total Residual Chlorine (mg/l) [a]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements, respectively.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

3. There shall be no discharge from strainer cleaning to this outfall.

B. BOILER/METALS CLEANING REQUIREMENTS

There shall be no discharge of the first rinse "waterside" boiler/metals cleaning effluent which includes EDTA from this facility. The second rinse of the boiler/metals cleaning activity at outfall 201 which includes EDTA (and any subsequent rinse activity) shall be a part of the copper samples collected from outfall 002.

There shall be no discharge of the first rinse "fireside and/or airside" boiler/metals cleaning effluent which includes EDTA from this facility.

C. ALTERNATIVE TO CHLORINATION AS A DISINFECTION METHOD – OUTFALL 206

1. If an alternative to chlorination as a disinfection method is chosen, *enterococci* shall be limited and monitored at outfall 206 by the permittee as specified below:

	Discharge Limitations	Monitoring Requirements	
Type	Monthly Average	Frequency	Sample
enterococci (n/100 ml)	35*	2/Month (Between 10 AM & 4 PM)	Grab

* Geometric Mean

The above requirements, if applicable, shall substitute for the TRC requirements delineated in Part I.A. for outfall 206

D. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1. Permit Reopeners

a. Water Quality Standards Reopener

Should effluent monitoring indicate the need for any water quality based limitation, this permit may be modified or, alternatively, revoked and reissued to incorporate appropriate limitations.

b. Nutrient Enriched Waters Reopener

This permit may be modified or, alternatively, revoked and reissued to include new or alternative nutrient limitations and/or monitoring requirements should the State Water Control Board adopt nutrient standards for the waterbody receiving the discharge or if a future water quality regulation or statute requires new or alternative nutrient control.

c. Total Maximum Daily Load (TMDL) Reopener

This permit shall be modified or, alternatively, revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

2. Licensed Operator Requirement

The permittee shall employ or contract at least one Class III licensed wastewater works operator for this facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the State Water Control Board for Waterworks and Wastewater Works Operators. The permittee shall notify the Tidewater Regional Office in writing whenever he is not complying, or has grounds for anticipating he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

3. Operations and Maintenance (O & M) Manual (Industrial)

The permittee shall review the existing Operations and Maintenance (O & M) Manual and notify the DEQ Regional Office in writing within 120 days of [**the effective date of this permit**] whether it is still accurate and complete. If the O & M Manual is no longer accurate and complete, a revised O & M Manual shall be submitted for approval to the DEQ Regional Office within 120 days of [**the effective date of this permit**]. The permittee will maintain an accurate, approved operation

and maintenance manual for the treatment works. This manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of the permit. The permittee shall operate the treatment works accordance with the approved O&M Manual. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

a. Treatment works design and operation, routine preventative maintenance of the units within the treatment system, critical spare parts inventory and record keeping;

b. Procedures for measuring and recording the duration and volume of treated wastewater discharged

c. Techniques to be employed in the collection, preservation and analysis of effluent samples.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for DEQ Regional staff approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit. Noncompliance with the O & M Manual shall be deemed a violation of the permit.

Letter/Revised Manual Due: No later than 120 days from the effective date of the permit.

4. Notification Levels

The permittee shall notify the Department as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(1) One hundred micrograms per liter (100 ug/l);
(2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
(3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
(4) The level established by the State Water Control Board.

b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(1) Five hundred micrograms per liter (500 ug/l);
(2) One milligram per liter (1 mg/l) for antimony;
(3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application.
(4) The level established by the State Water Control Board.

5. Quantification Levels Under Part I.A.

a. The maximum quantification levels (QL) shall be as follows:

Effluent Characteristic	Quantification Level
TSS	1.0 mg/l
Chlorine	0.1 mg/l
Ammonia-N	0.2 mg/l
Copper	5 ug/l
Arsenic	50 ug/l
Zinc	50 ug/l
Lead	50 ug/l
TPH: DRO/GRO	0.5 mg/l / 0.5 mg/l
Oil and Grease	5.0 mg/l

b. The permittee may use any approved method which has a QL equal to or lower than the (QL) listed in 5.a above. The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method.

6. Compliance Reporting Under Part I.A.

a. Monthly Average -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.D.5.a shall be determined as follows: All data below the quantification level (QL) listed in Part I.D.5.a. above shall be treated as zero. All data equal to or above the QL listed in Part I.D.5.a. above shall be treated as it is reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, for the month. This arithmetic average shall be reported on the DMR as calculated. If all data are below the QL, then the average shall be reported as "<QL".

b. Daily Maximum -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in Part I.D.5.a. shall be determined as follows: All data below the quantification level (QL) listed in Part I.D.5.a above shall be treated as zero. All data equal to or above the QL shall be treated as reported. An arithmetic average of the values shall be calculated using all reported data, including the defined zeros, collected for each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL, then the average shall be reported as "<QL".

c. Any single datum required shall be reported as "<QL" if it is less than the QL listed in Part I.D.5.a above. Otherwise, the numerical value shall be reported.

d. Where possible, all limit values on the Part I.A. limits page(s) are expressed in two significant figures. As a result, single, trailing zeros occurring after any single digit are significant. Effluent limits of 10 or greater are rounded to two significant whole numbers, with the exception that loading limits are expressed as whole numbers.

e. The permittee shall report at least the same number of significant figures as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

7. Materials Handling and Storage

Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes and/or other wastes to State waters, except as expressly authorized.

8. Cooling Water and Boiler Additives

a. If at any time during the life of this permit, the permittee decides to treat any non-contact cooling water unit(s) and/or boiler system(s) with chemical additives [other than those additives currently in use and on file

with the DEQ Tidewater Regional Office], the following requirements shall be satisfied.

At least thirty (30) days prior to implementing any chemical addition to the cooling water and/or boiler equipment, the permittee shall **notify the DEQ Tidewater Regional Office, in writing**, of the following:

(1) The chemical additives to be employed and their purpose. Provide to the staff for review, a Material Safety Data Sheet (MSDS) for each proposed additive;

(2) Schedule of additive usage; and,

(3) Wastewater treatment and/or retention to be provided during the use of additives.

b. Should the addition of treatment chemicals significantly alter the characteristics of the effluent from the cooling water and/or boiler unit(s) or their usage becomes persistent or continuous, this permit shall be modified or, alternatively, revoked and reissued to include appropriate limitations or conditions.

9. Outfall 010

Screen cleaning is allowed in the drainage area to outfall 010. Screen cleanings must be performed using water only, no detergents, solvents or cleaners. All material removed from the screens shall be collected by manual cleaning to prevent materials from entering the discharge point to the outfall. Proper structural and non-structural BMP's must be employed to prevent solids or other materials from discharging through the outfall.

10. Section 316(b) Phase II Requirements

As required by §316(b) of the Clean Water Act, the location, design, construction and capacity of the cooling water intake structures for the permitted facility shall reflect the best technology available (BTA) for minimizing adverse environmental impact. This permit may be reopened to address compliance with Clean Water Act §316(b) through requirements including but not limited to those specified in EPA regulations in 40 CFR Part 125 Subpart J when finalized.

11. Polychlorinated Biphenyl (PCB) Compounds

There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. Compliance with this requirement will be determined using EPA test method 608 (as referenced in 40 CFR Part 136).

12. Overflow of Untreated Coal Pile Runoff from a 10-Year/24-Hour Storm - Outfall 003

Any untreated overflow from facilities designed, constructed and operated to treat the volume of coal pile runoff which results from a 10-year/24-hour rainfall event shall not be subject to the total suspended solids limitation of 50 mg/l maximum concentration for outfall 003, at any time.

13. Collected Debris for Trash Intake Racks

Debris collected on intake trash racks shall not be returned to the receiving stream.

14. Mixing Zone Requirements

The permittee shall comply with State Water Quality Standards outside the approved thermal mixing zone. The approved mixing zone is defined as a section of the Southern Branch of the Elizabeth River bounded on the south by State Route 104 (Latitude 36° 44′ 10″ N; Longitude 76° 17′ 45″ W) on the North by the green day marker #GC17 (Latitude 36° 46′ 42″ N; Longitude 76° 18′ 30″ W). Also included in this mixing zone is a section of Deep Creek from its mouth to a point 100 yards downstream of its convergence with the abandoned Gilmerton-Deep Creek Canal (Latitude 36° 44′ 58″ N; Longitude 76° 20′ 10″ W). A map showing the approved mixing zone is incorporated in this permit. See Attachment.

Monitoring of this mixing zone shall take place once per year during the month of January or July. The monitoring results shall be presented as a temperature plot with 3°C isotherms and will be taken as near to full plant operating conditions as reasonably possible. Results of the mixing zone survey shall be submitted to DEQ by April 30 for surveys conducted in January and by October 31 for surveys conducted in July of each year.

15. Total Residual Chlorine Discharge Duration

Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day, and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the permittee can demonstrate to the DEQ that the units in a particular location cannot operate at or below this level of chlorination.

16. Coal Unloading Dock Conditions and BMP's

a. The dock area shall be cleaned on a regular basis to minimize the possibility that runoff will carry coal fines, trash, garbage, petroleum products or other debris into the receiving water. Cleanup of areas contributing runoff shall consist of mechanical or manual methods to sweep up and collect the debris.

b. Trash receptacles shall be provided and shall be emptied as necessary to prevent trash from entering State waters.

c. Leaking connections, valves, pipes, hoses carrying wastewater and coal chutes shall be replaced or repaired immediately. Coal chute and hose connections to vessels and to receiving lines or containers shall be tightly connected and leak free.

d. There shall be no exterior hull work on vessels while docked at this facility.

E. TOXICS MANAGEMENT PROGRAM (TMP)

1. Biological Monitoring

a. In accordance with the schedule in E.2.below, the permittee shall conduct annual toxicity tests for the duration of the permit.
The permittee shall collect a grab sample of final effluent from outfalls 001 and 002 in accordance with the sampling methodology in Part I.A. of this permit. The grab samples for toxicity testing shall be taken at the same time as the monitoring for the outfalls in Part 1.A. of this permit. Annual acute and chronic tests shall be conducted for outfalls 001 and 002. The tests to use are:

48 Hour Static Acute test using Americamysis bahia

Chronic Static Renewal 7-day Survival and Growth Test with Americamysis bahia

The permittee shall collect grab samples of final effluent from outfall 003 in accordance with the sampling methodology in Part I.A. of this permit. The grab samples for toxicity testing shall be taken at the same time as the monitoring for the outfalls in Part 1.A. of this permit. Annual acute tests shall be conducted for outfall 003. The acute test to use is:

48 Hour Static Acute test using Americamysis bahia

b. The acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50}. Express the results as TU_a (Acute Toxic Units) by dividing 100/ LC_{50} for reporting.

The chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and growth. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for reporting. Report the LC50 at 48 hours and the IC25 with the NOEC's in the test report.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

c. In the event that sampling of any of the outfalls is not possible due to the absence of effluent flow during a

particular testing period, the permittee shall perform a make-up sample during the next testing period.

d. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of the effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

e. The test dilutions shall be able to determine compliance with the following endpoints:

(1) Acute LC_{50} of 100% equivalent to a TU_a of 1.0

(2) Chronic NOEC of 100% equivalent to a TU_c of 1.0

2. Reporting Schedule

The permittee shall report the results and supply **one** complete copy of the toxicity test reports to the Tidewater Regional Office in accordance with the schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, and all chains of custody. **Attachment A** must be submitted with each complete report. All data shall be submitted within 60 days of the sample date.

(a)	**Conduct first annual TMP test for outfalls 001, 002, and 003 using <u>Americamysis bahia</u>**	**By December 31, 2012**
(b)	**Submit results of all biological tests**	**Within 60 days of the sample date and no later than January 10, 2013**
(c)	**Conduct subsequent annual TMP tests for outfalls 001, 002, and 003 using <u>Americamysis bahia</u>**	**By December 31, 2013, 2014, 2015 and 2016**
(d)	**Submit subsequent annual biological tests**	**Within 60 days of the sample date and no later than January 10, 2014, 2015, 2016 and 2017**

F. STORM WATER MANAGEMENT CONDITIONS

1. Sampling Methodology for Specific Outfalls 010, 011, 012, 016, 017, 030

The following shall be required when obtaining samples required by Part I.A. of this permit:

a. At the time of sampling, the permittee shall ensure that the effects of tidal influences are kept to an absolute minimum. This can be achieved by:

(1) Sampling at low tide and/or

(2) Sampling at a representative point which has been demonstrated to be free of tidal influences

b. In the event that sampling of an outfall is not possible due to the absence of effluent flow during a particular testing period, the permittee shall provide written notification to DEQ Tidewater Regional Office with the DMR for the month following the period in which samples were to be collected.

2. Storm Water Management Evaluation

The Storm Water Pollution Prevention Plan (SWP3), which is to be developed and maintained in accordance with Part I.F.4 of this permit, shall have a goal of reducing pollutants discharged at all the regulated storm water outfalls.

a. Pollutant Specific Screening

The goal shall place emphasis on reducing, to the maximum extent practicable, the following screening criteria parameters in the outfalls noted below.

OUTFALL NO.	POLLUTANTS
016, 017	Dissolved Zinc

b. Toxicity Screening

The permittee shall conduct **annual acute toxicity tests** on outfalls 011, 012, and 016 using grab samples of final effluent. These acute screening tests shall be 48-hour static tests using Americamysis bahia, conducted in such a manner and at sufficient dilutions for calculation of a valid LC50.

The permittee shall conduct **annual acute toxicity tests** on outfall 030 using grab samples of final effluent.

These acute screening tests shall be 48-hour static tests using Americamysis bahia and Cyprinodon variegates, conducted in such a manner and at sufficient dilutions for calculation of a valid LC50.

The tests shall be conducted on a calendar year basis with one copy of all **results and all supporting information including Attachment A, submitted within 60 days from the date which the sample was taken and no later than January 10th of each year.**

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3

If any of the biological screening tests are invalidated, an additional test shall be conducted within thirty (30) days of notification. If there is no discharge during this 30-day period, a sample must be taken during the first qualifying discharge.

c. Sampling methodology for the noted outfalls shall be in accordance with Part I.A. and Part I.F. of this permit. The permittee shall submit the following information **with the results of the toxicity tests.**

(1) The actual or estimated effluent flow at the time of the sampling.

(2) An estimate of the total volume of storm water discharged through each outfall during the discharge event.

(3) The time at which the discharge event began, the time at which the effluent was sampled, and the duration of the discharge event.

d. The effectiveness of the SWP3 will be evaluated via the required monitoring for all parameters listed in Part I.A. of this permit for the regulated storm water outfalls, including the screening criteria parameters and toxicity screening. Monitoring results which are either above the screening criteria values or, in the case of toxicity, result in an LC_{50} of less than 100% effluent, will not indicate unacceptable values. However, those results will justify the need to reexamine the effectiveness of the SWP3 and any best management practices (BMPs) being utilized for the affected outfalls. In addition, the permittee shall amend the SWP3 whenever there is a change in the facility or its operation which materially increases the potential for activities to result in a discharge of significant amounts of pollutants.

By February 10th of each year, the permittee shall submit to the DEQ Tidewater Regional Office an annual report which includes the pollutant-specific and biological monitoring data from the outfalls included in this condition along with a summary of any steps taken to modify either the Plan or any BMPs based on the monitoring data.

First Annual Toxicity Screening and Annual Report Due: No later than February 10, 2013.

3. General Storm Water Conditions

a. Sample Type

For all storm water monitoring required in Part I.A. or other applicable sections of this permit, a minimum of one grab sample shall be taken. Unless otherwise specified, all such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken during the first hour of the discharge, and the permittee shall document with the SWP3 a description of why a grab sample during the first 30 minutes was impracticable. If storm water discharges associated with industrial activity commingle with process or nonprocess water, then where practicable permittees must attempt to sample the storm water discharge before it mixes with the nonstorm water discharge.

b. Recording of Results

For each storm event monitored under Part I.A. of this permit, the permittee shall record and retain on site with the SWP3 the following information:

(1) The date and duration (in hours) of the storm event(s) sampled;

(2) The rainfall measurements or estimates (in inches) of the storm event which generated the sampled discharge; and

(3) The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event.

In addition, the permittee shall maintain a monthly log documenting the amount of rainfall received at this facility on a daily basis. This information shall be retained on site with the SWP3.

c. Sampling Waiver

When a permittee is unable to collect storm water samples required in Part I.A. or other applicable sections of this permit within a specified sampling period due to adverse climatic conditions, the permittee shall collect a substitute sample from a separate qualifying event in the next period and submit these data along with the data for the routine sample in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

d. Representative Discharge

When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes substantially identical effluents are discharged, and the DEQ Tidewater Regional Office has approved them as such, the permittee may test the effluent of one of such outfalls and report that the quantitative data also apply to the substantially identical outfall(s) provided that the permittee includes in the SWP3 a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area [(i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)] shall be provided in the plan.

e. Quarterly Visual Examination of Storm Water Quality

Unless another more frequent schedule is established elsewhere within this permit, the permittee shall perform and document a visual examination of a storm water discharge associated with industrial activity from each outfall. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December.

(1) Examinations shall be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed 1 hour) of when the runoff or snowmelt begins discharging. The examination shall document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well lit area. No analytical tests are required to be performed on the samples. All such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previous measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term.

(2) Visual examination reports must be maintained onsite with the SWP3. The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.

(3) When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and

activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may collect a sample of effluent of one of such outfalls and report that the examination data also applies to the substantially identical outfall(s) provided that the permittee includes in the SWP3 a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)) shall be provided in the plan.

(4) When the permittee is unable to conduct the visual examination due to adverse climatic conditions, the permittee must document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

f. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

The discharge of hazardous substances or oil in the storm water discharge(s) from the facility shall be prevented or minimized in accordance with the storm water pollution prevention plan for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 or § 62.1-44.34:19 of the Code of Virginia. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period:

(1) The permittee is required to notify the Department in accordance with the requirements of **Part II G** as soon as he or she has knowledge of the discharge;

(2) Where a release enters a municipal separate storm sewer system (MS4), the permittee shall also notify the owner or the MS4; and

(3) The storm water pollution prevention plan required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

g. Allowable Non-Storm Water Discharges

(1). The following non-storm water discharges are authorized by this permit provided the non-storm water component of the discharge is in compliance with Part g.(2), below.

(a) Discharges from fire fighting activities;

(b) Fire hydrant flushings;

(c) Potable water including water line flushings;

(d) Uncontaminated air conditioning or compressor condensate;

(e) Irrigation drainage;

(f) Landscape watering provided all pesticides, herbicides, and fertilizers have been applied in accordance with manufacturer's instructions;

(g) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);

(h) Routine external building wash down which does not use detergents;

(i) Uncontaminated ground water or spring water;

(j) Foundation or footing drains where flows are not contaminated with process materials such as solvents;

(k) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains).

(2). For all regularly-occurring discharges listed in g.(1) above that occur in industrial areas, the Storm Water Pollution Prevention Plan must include:

(a) Identification of each allowable non-storm water source;

(b) The location where the non-storm water is likely to be discharged; and

(c) Descriptions of any BMPs that are being used for each source.

(3). If mist blown from cooling towers is included as one of the allowable non-storm water discharges from the facility, the permittee must specifically evaluate the potential for the discharges to be contaminated by chemicals used in the cooling tower, and must select and implement BMPs to control such discharges so that the levels of cooling tower chemicals in the discharges would not cause or contribute to a violation of an applicable water quality standard.

4. Storm Water Pollution Prevention Plan (SWP3)

A storm water pollution prevention plan (SWP3) shall be maintained for the facility. The SWP3 shall be prepared in accordance with good engineering practices. The SWP3 shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the SWP3 shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. The permittee must implement the provisions of the SWP3 as a condition of this permit.

The SWP3 requirements of this permit may be fulfilled by incorporating by reference other plans or documents such as an erosion and sediment control plan, a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act or best management practices (BMP) programs otherwise required for the facility provided that the incorporated plan meets or exceeds the SWP3 requirements of this section. If an erosion and sediment control plan is being incorporated by reference, it shall have been approved by the locality in which the activity is to occur or by another appropriate plan approving authority authorized under the Virginia Erosion and Sediment Control Regulation 4 VAC 50-30-10 et seq. All plans incorporated by reference into the SWP3 become enforceable under this permit.

a. Deadlines for SWP3 Preparation and Compliance Existing Facilities

The SWP3 which was previously prepared and implemented shall be complied with, and continually updated as needed in accordance with sections b., c., d. and e. below.

(1) Measures That Require Construction

In cases where construction is necessary to implement measures required by the SWP3, the SWP3 shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of the permit. Where a construction compliance schedule is included in the SWP3, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.

b. Signature and SWP3 Review

(1) Signature/Location

The SWP3 shall be signed in accordance with Part II.K. of this permit and be retained onsite at the facility which generates the storm water discharge in accordance with Part II.B. of this permit. For inactive facilities, the SWP3 may be kept at the nearest office of the permittee.

(2) Availability

The permittee shall make the SWP3, annual site compliance inspection report, or other information available to the DEQ upon request.

(3) Required Modifications

The Tidewater Regional Office may notify the permittee at any time that the SWP3 does not meet one or more of the minimum requirements of the permit. Such notification shall identify those provisions of the permit which are not being met by the SWP3, and identify which provisions of the plan require modifications in order to meet the minimum requirements of this permit. Within 60 days of such notification, the permittee shall make the required changes to the SWP3 and shall submit to the DEQ Tidewater Regional Office a written

certification that the requested changes have been made.

c. Keeping SWP3s Current

The permittee shall amend the SWP3 whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the potential for the discharge of pollutants to surface waters of the State or if the SWP3 proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under section d. below, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. New owners shall review the existing SWP3 and make appropriate changes. Amendments to the plan may be reviewed by the Department in the same manner as noted in section b. above.

d. Contents of SWP3

The contents of the SWP3 shall comply with the requirements listed below and those in Part I.F.5. (Facility-specific Storm Water Conditions) of this permit; these requirements are cumulative. The SWP3 shall include, at a minimum, the following items.

(1) Pollution Prevention Team

The SWP3 shall identify a specific individual or individuals within the facility organization as members of a storm water pollution prevention team that are responsible for developing the SWP3 and assisting the facility or plant manager in its implementation, maintenance, and revision. The SWP3 shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's SWP3.

(2) Description of Potential Pollutant Sources

The SWP3 shall provide a description of potential sources which may reasonably be expected to add significant amounts of pollutants to storm water discharges or that may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. The SWP3 shall identify all activities and significant materials which may potentially be significant pollutant sources. The SWP3 shall include, at a minimum:

(a) Drainage

i. A site map indicating an outline of the portions of the drainage area of each storm water outfall within the facility boundaries, each existing structural control measure to reduce pollutants in storm water runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under section (2)(c) below have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes and wastewaters; locations used for the treatment, filtration or storage of water supplies; liquid storage tanks; processing areas; and, storage areas. The map must indicate the outfall locations and the types of discharges contained in the drainage areas of these outfalls.

ii. For each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow, and an identification of the types of pollutants which are likely to be present in the storm water discharges. Factors to consider include: the toxicity of chemicals; quantity of chemicals used, produced or discharged; the likelihood of contact with storm water; and, history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified.

(b) Inventory of Exposed Materials

An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of

significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of three years prior to the effective date of this permit and the present; method and location of on-site storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff between the time of three years prior to the effective date of this permit and the present; the location and a description of existing structural and non-structural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives.

(c) Spills and Leaks

A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility after the date of three years prior to the effective date of this permit. Such list shall be updated as appropriate during the term of the permit.

(d) Sampling Data

A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility, including a summary of sampling data collected during the term of this permit.

(e) Risk Identification and Summary of Potential Pollutant Sources

A narrative description of the potential pollutant sources from the following activities: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and, on-site waste disposal practices and wastewater treatment activities to include sludge drying, storage, application or disposal activities. The description shall specifically list any significant potential source of pollutants at the site and for each potential source, any

pollutant or pollutant parameter (e.g., biochemical oxygen demand, total suspended solids, etc.) of concern shall be identified.

(3) Measures and Controls

The permittee shall develop a description of storm water management controls appropriate for the facility and implement these controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls.

(a) Good Housekeeping

Good housekeeping requires the clean and orderly maintenance of areas which may contribute pollutants to storm water discharges. The SWP3 shall describe procedures performed to minimize contact of materials with storm water runoff. Particular attention should be paid to areas where raw materials are stockpiled, material handling areas, storage areas, liquid storage tanks, material handling areas, and loading/unloading areas.

(b) Preventive Maintenance

A preventive maintenance program shall involve: timely inspection and maintenance of storm water management devices (e.g., cleaning oil/water separators, catch basins); inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures which could result in discharges of pollutants to surface waters; and, appropriate maintenance of such equipment and systems.

(c) Spill Prevention and Response Procedures

Areas where potential spills may occur which can contribute pollutants to storm water discharges, and their accompanying drainage points shall be identified clearly in the SWP3. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures

for cleaning up spills shall be identified in the SWP3 and made available to the appropriate personnel. The necessary equipment to implement a cleanup should be available to the appropriate personnel.

(d) Inspections

In addition to or as part of the comprehensive site compliance evaluation required under section d.(4) below, qualified facility personnel who are familiar with the industrial activity, the Best Management Practices (BMPs) and the SWP3 shall be identified to inspect designated equipment and areas of the facility at appropriate intervals. The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained with the pollution prevention plan.

(e) Employee Training

Employee training programs shall inform personnel responsible for implementing activities identified in the SWP3 or otherwise responsible for storm water management at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. The SWP3 shall identify periodic dates for such training.

(f) Recordkeeping and Internal Reporting Procedures

A description of incidents such as spills, or other discharges, along with other information describing the quality and quantity of storm water discharges shall be included in the SWP3. Inspections and maintenance activities shall be documented

and records of such activities shall be incorporated into the plan.

(g) Sediment and Erosion Control

The SWP3 shall identify areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.

(h) Management of Runoff

The SWP3 shall contain a narrative consideration of the appropriateness of traditional storm water management practices [practices other than those which control the generation or source(s) of pollutants] used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The SWP3 shall provide for the implementation and maintenance of measures that the permittee determines to be reasonable and appropriate. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices; reuse of collected storm water (such as for a process or as an irrigation source); inlet controls (such as oil/water separators); snow management activities; infiltration devices; wet detention/retention devices; or, other equivalent measures.

(4) Comprehensive Site Compliance Evaluation

Qualified facility personnel who are familiar with the industrial activity, the BMPs and the SWP3 shall conduct site compliance evaluations at appropriate intervals specified in the SWP3, but, in no case less than once a year during the permit term. Such evaluations shall include the following.

(a) Areas contributing to a storm water discharge associated with industrial activity, such as material storage, handling and disposal activities, shall be visually inspected for

evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the SWP3 shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the SWP3, such as spill response equipment, shall be made.

(b) Based on the results of the evaluation, the description of potential pollutant sources identified in the SWP3 in accordance with section d.(2) above and pollution prevention measures and controls identified in the SWP3 in accordance with section d.(3) above shall be revised as appropriate within 2 weeks of such evaluation and shall provide for implementation of any changes to the SWP3 in a timely manner, but in no case more than 12 weeks after the evaluation.

(c) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the SWP3, and actions taken in accordance with section (4)(b) above shall be made and retained as part of the SWP3 for at least three years from the date of the evaluation. The report shall identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the SWP3 and this permit. The report shall be signed in accordance with Part II.K. of this permit.

(d) Where compliance evaluation schedules overlap with inspections required under section d.(3)(d), the compliance evaluation may be conducted in place of one such inspection.

e. Requirements for Salt Storage

Storage piles of salt used for deicing or other commercial or industrial purposes and which

generate a storm water discharge associated with industrial activity which is discharged to surface waters of the State shall be enclosed or covered to prevent exposure to precipitation, except for exposure resulting from adding or removing materials from the pile. Piles do not need to be enclosed or covered where storm water from the pile is not discharged to surface waters of the State.

5. Facility-specific Storm Water Conditions

a. Good housekeeping measures.

(1) Fugitive dust emissions.

The permittee shall describe and implement measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize off-site tracking of coal dust such as installing specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.

(2) Delivery vehicles.

The plan must describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee shall consider the following:

(a) Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and

(b) Develop procedures to deal with leakage/spillage from vehicles or containers.

(3) Fuel oil unloading areas.

The plan must describe measures that prevent or minimize contamination of precipitation/surface runoff from fuel oil unloading areas. At a minimum the permittee must consider using the following measures, or an equivalent:

(a) Use of containment curbs in unloading areas;

(b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

(c) Use of spill and overflow protection (e.g., drip pans, drip diapers, and/or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).

(4) Chemical loading/unloading areas.

The permittee must describe and implement measures that prevent or minimize the contamination of precipitation/surface runoff from chemical loading/unloading areas. At a minimum the permittee must consider using the following measures (or their equivalents):

(a) Use of containment curbs at chemical loading/unloading areas to contain spills;

(b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

(c) Covering chemical loading/unloading areas, and storing chemicals indoors.

(5) Miscellaneous loading/unloading areas.

The permittee shall describe and implement measures that prevent or minimize the contamination of storm water runoff from loading and unloading areas. The permittee shall consider the following, at a minimum (or their equivalents): covering the loading area; grading, berming, or curbing around the loading area to divert runon; or locating the loading/unloading equipment and vehicles so that leaks are contained in existing containment and flow diversion systems.

(6) Liquid storage tanks.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from aboveground liquid storage tanks. At a minimum the permittee must consider employing the following measures (or their equivalents):
(a) Use of protective guards around tanks;
(b) Use of containment curbs;
(c) Use of spill and overflow protection; and
(d) Use of dry cleanup methods.

(7) Large bulk fuel storage tanks.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from large bulk fuel storage tanks. At a minimum the permittee must consider employing containment berms (or its equivalent). The permittee shall also comply with applicable state and federal laws, including Spill Prevention Control and Countermeasures (SPCC).

(8) Spill reduction measures.

The permittee shall describe and implement measures to reduce the potential for an oil/chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all aboveground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(9) Oil bearing equipment in switchyards.

The permittee shall describe and implement measures to prevent or minimize contamination of surface runoff from oil bearing equipment in switchyard areas. The permittee shall consider the use of level grades and gravel surfaces to retard flows and limit the spread of spills, and the collection of storm water runoff in perimeter ditches.

(10) Residue hauling vehicles.

All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the container body. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds must be repaired as soon as practicable.

(11) Ash loading areas.

The permittee shall describe and implement procedures to reduce or control the tracking of ash/residue from ash loading areas where practicable, clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water before departure of each loaded vehicle.

(12) Areas adjacent to disposal ponds or landfills.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee must develop procedures to:

(a) Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and

(b) Reduce ash residue on exit roads leading into and out of residue handling areas.

(13) Landfills, scrapyards, surface impoundments, open dumps, general refuse sites.

The plan must address and include appropriate BMPs for landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(14) Vehicle maintenance activities.

For vehicle maintenance activities performed on the plant site, the permittee shall use the applicable BMPs outlined in Sector P of 9 VAC 25-151-10 et seq.

(15) Material storage areas.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay down areas). The permittee shall consider the use of the following measures (or their equivalents): flat yard grades; runoff collection in graded swales or ditches; erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins); covering lay down areas; storing materials indoors; and covering materials temporarily with polyethylene, polyurethane, polypropylene, or hypalon. Storm water runon may be minimized by constructing an enclosure or building a berm around the area.

a. Comprehensive site compliance evaluation.

As part of the evaluation, qualified facility personnel shall inspect the following areas on a monthly basis: coal handling areas, loading/unloading areas, switchyards, fueling areas, bulk storage areas, ash handling areas, areas adjacent to disposal ponds and landfills, maintenance areas, liquid storage tanks, and long term and short term material storage areas.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring.

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.

2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.

3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

4. Samples taken as required by this permit shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records.

1. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;

   b. The individual(s) who performed the sampling or measurements;

   c. The date(s) and time(s) analyses were performed;

   d. The individual(s) who performed the analyses;

   e. The analytical techniques or methods used; and

   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be

extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results.

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Department of Environmental Quality
   Tidewater Regional Office
   5636 Southern Boulevard
   Virginia Beach, VA 23462

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information.

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges.

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or

2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges.

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;

2. The cause of the discharge;

3. The date on which the discharge occurred;

4. The length of time that the discharge continued;

5. The volume of the discharge;

6. If the discharge is continuing, how long it is expected to continue;

7. If the discharge is continuing, what the expected total volume of the discharge will be; and

8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges.

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;

2. Breakdown of processing or accessory equipment;

3. Failure or taking out of service some or all of the treatment works; and

4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:

   a. Any unanticipated bypass; and

   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:

   a. A description of the noncompliance and its cause;

   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and

c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the Department's Regional Office at (757) 518-2000 (voice), and online http://www.deq.virginia.gov/prep/h2rpt.html . For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes.

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

(1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or

(2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may

justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements.

1. Applications. All permit applications shall be signed as follows:

a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part II K 1;

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

   c. The written authorization is submitted to the Department.

3. Changes to Authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification:

   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. <u>Duty to Comply.</u>

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit

noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit.

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law.

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges.

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.

2. Notice

a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.

b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.

3. Prohibition of bypass.

a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:

(1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required under Part II U 2.

b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset.

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. An upset occurred and that the permittee can identify the cause(s) of the upset;

b. The permitted facility was at the time being properly operated;

c. The permittee submitted notice of the upset as required in Part II I; and

d. The permittee complied with any remedial measures required under Part II S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry.

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions.

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits.

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;

   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2 b.

Z. Severability.

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

Rec'd 1-18-08

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462
(757) 518-2000 Fax (757) 518-2103
www.deq.virginia.gov

L. Preston Bryant, Jr
Secretary of Natural Resources

David K. Paylor
Director

Francis L. Daniel
Regional Director

January 23, 2008
CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. J. David Rives
Vice President, Fossil and Hydro
Dominion Resources
5000 Dominion Blvd.
Glen Allen, VA 23060

RE: Modification of VPDES Permit No. VA0004081
Chesapeake Energy Center
Chesapeake, VA 23320

Dear Mr. Rives:

The modification of the above referenced permit has been approved. Additionally, enclosed is a copy of the fact sheet page that describes public participation in the permit modification process. Please replace the page in fact sheet that you received with the draft permit with this page.

Your permit is also enclosed. In accordance with the permit, you are required to submit monitoring reports to the following address:

Department of Environmental Quality (DEQ)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

The reporting forms are included with the permit. You will be responsible for obtaining additional copies of the reporting forms. The only outfall affected by this modification is outfall 010. The first report (DMR) is due for the first semiannual period of 2008 by July 10, 2008. The first report (DMR) is due for the annual period of 2008 by January 10, 2009. No other outfalls are affected by this modification; please continue to report for all other outfalls as required in the current permit.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under Section 62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in Section 1.23(b) of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

Note that DEQ has launched an e-DMR program that allows you to submit the effluent data electronically. If you are interested in participating in this program please visit the follow website for details:

http://www.deq.virginia.gov/water/edmrfaq.html

If you have any additional questions, please do not hesitate to contact Mark Sauer at 757-518-2105 or by email at mhsauer@deq.virginia.gov.

Sincerely,

James R. McConathy
Water Permits Manager

JRM/

cc: DEQ - OWPP, TRO File
EPA - Region III (3WP12)

Encl: Permit No. VA0004081
Revised Fact Sheet Page(s)

PUBLIC NOTICE INFORMATION: Comment Period: Start Date December 22, 2007
End Date January 22, 2008

Persons may comment in writing or by e-mail to the DEQ on the proposed issuance/ reissuance/modification of the permit within 30 days from the date of the first notice. Address all comments to the contact person listed below. Written or e-mail comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The Director of the DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing and a brief explanation of how the requestor's interests would be directly and adversely affected by the proposed permit action.

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting Mark H. Sauer at: Department of Environmental Quality (DEQ), Tidewater Regional Office, 5636 Southern Boulevard, Virginia Beach, VA 23462. Telephone: 757-518- 2105 E-mail: mhsauer@deq.virginia.gov

Following the comment period, the Board will make a determination regarding the proposed issuance/reissuance/modification. This determination will become effective, unless the Director grants a public hearing. Due notice of any public hearing will be given.

30. **ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:**

The VPDES permit for the Dominion Chesapeake Energy Center was reissued in early 2007. This permit action is for a very specific modification to that reissued permit. This fact sheet and corresponding permit for the Chesapeake Energy Center incorporates a modification to address the EPA 316(b) Phase II rule suspension concerning cooling water intake structures. The rule suspension necessitates a change in the wording of the special condition concerning the 316(b) language and associated fact sheet rationale. The new 316(b) language was reviewed by and agreed upon by the Agency, Dominion and the EPA and now matches other permits for Dominion facilities that were reissued subsequent to the 316(b) Phase II rule suspension.

During this modification, the DEQ will also add the following footnote wording to the effluent limits page for outfall 010 which was omitted in the permit during the reissuance process in early 2007:

(inc)

c [~~b~~] Estimate of the total volume of the discharge during the storm event.

d [~~c~~] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.

These are the only changes to the permit that are addressed by this modification. No changes in outfalls, effluent characteristics, discharge conditions or effluent limitations are addressed in this modification.

Rec'd 1-18-08

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462
(757) 518-2000 Fax (757) 518-2103
www.deq.virginia.gov

L. Preston Bryant, Jr
Secretary of Natural Resources

David K. Paylor
Director

Francis L. Daniel
Regional Director

Permit No: VA0004081
Effective Date: January 24, 2007
Modification Date: January 23, 2008
Expiration Date: January 23, 2012

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in this permit.

Owner: Virginia Electric and Power Company
Facility Name: Chesapeake Energy Center
City: Chesapeake, VA
County: NA
Facility Location: Vepco Street, Chesapeake, VA 23320

The owner is authorized to discharge to the following receiving stream:

Stream: See Attached
River Basin:
River Subbasin:
Section:
Class:
Special Standards:

The authorized discharge shall be in accordance with this cover page, Part I - Effluent Limitations and Monitoring Requirements and Part II - Conditions Applicable To All VPDES Permits, as set forth herein.

Francis L. Daniel

Francis L. Daniel

Jan. 23, 2008

Date

Permit No. VA0004081

ATTACHMENT I

Outfall No(s).	Receiving Stream
001 (incl. 101), 002 (incl. 201, 206), 013, 015, 018, 021	Receiving Stream: Deep Creek to the Southern Branch of the Elizabeth River Basin: James River (Lower) Subbasin: NA Section: 1d Class: II Special Standard(s): a,z, NEW-19
003 (incl. 301), 004, 005, 007, 008, 009, 010, 011, 012, 016, 017, 019, 020, 030, 031	Receiving Stream: Southern Branch of the Elizabeth River Basin: James River (Lower) Subbasin: NA Section: 1d Class: II Special Standard(s): a,z, NEW-19

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 001(Once through condenser cooling water, demineralizer regeneration waste, reverse osmosis waste water; units 1-3 sump overflow, hotwell).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS [a]	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Day	Estimate
pH (S.U.)	NA	NA	6.0	9.0	2/Month	Grab
Total Residual Chlorine (mg/l)[a][b]	.021	NA	NA	.026	2/Month	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	2/Month	Grab
Total Nitrogen (mg/l)	NL	NA	NA	NA	2/Month	Grab
Temperature (°C)	NA	NA	NA	[c]	1/Year	[c]
Heat Rejection (BTU/HR)	$3.55 \times 10^{(9)}$	NA	NA	NA	Continuous	Recorded

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements.
[b] See Part I.D.15 for Total Residual Discharge Duration
[c] See Part I.D.14. for Thermal Mixing Zone Requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 002 - Ash Pond (internal sources: boiler blowdown, floor drains, sewage, bottom ash sluice landfill runoff, metals cleaning wastes, structural fill runoff/leachate, units 1-3, 4 sumps, equipment wash water, coal pile runoff(incl. coal dock runoff, coal dock wash water, synfuel wash water and pet coke storage).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	2/Month	Estimate
pH (S.U.)	NA	NA	6.0	9.0	2/Month	Grab
Total Residual Chlorine (mg/l) [a]	.026	NA	NA	.026	1/3Months	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	2/Month	Grab
Total Nitrogen (mg/l)	NL	NA	NA	NA	2/Month	Grab
Oil & Grease (mg/l)	15	NA	NA	20	2/Month	Grab
Total Suspended Solids (mg/l)	30	NA	NA	50	2/Month	Grab
Ammonia (mg/l) [a]	NL	NA	NA	NL	2/Month	Grab
Dissolved Copper (ug/l)[a] [b]	NA	NA	NA	NL	1/6Months	Grab
Total Chromium (ug/l)[a][c]	NA	NA	NA	NL	1/6Months	Grab
Hexavalent Chromium (ug/l)[a][c]	NA	NA	NA	NL	1/6Months	Grab
Total Phenolics (mg/l)[a][c]	NA	NA	NA	NL	1/6Months	Grab
Dissolved Nickel (ug/l)[a][c]	NA	NA	NA	NL	1/6Months	Grab
Total Vanadium(ug/l)[a][c]	NA	NA	NA	NL	1/6Months	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/3Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).

1/6Months = In accordance with the following schedule: 1st half(January 1 - June 30); 2nd half(July 1 - December 31).

1/year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS (continued)

[a] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements.
[b] See Part I.B. for Boiler Cleaning/Metals Requirements.
[c] Monitoring and reporting shall commence upon notification to the DEQ that petroleum coke is being stored at the facility. No monitoring or reporting until petroleum coke is stored at the facility. The permittee shall notify the DEQ 30 days prior to first receiving petroleum coke.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 003 (regulated storm runoff from coal pile runoff, fuel oil tank containment area, combustion turbine area; overflow from: synfuel wash water, coal dock storm water and wash water and pet coke storage).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS [a]	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type[b]
Flow (MGD)	NA	NA	NA	NL	1/6Months	Estimate
pH (S.U.)	NA	NA	6.0	9.0	1/6Months	Grab
Total Suspended Solids (mg/l)[c]	NA	NA	NA	50	1/6Months	Grab
TPH(mg/l)[d]	NA	NA	NA	NL	1/6Months	Grab
Dissolved Copper (ug/l)[d]	NA	NA	NA	NL	1/6Months	Grab
Dissolved Zinc (ug/l)[d]	NA	NA	NA	NL	1/6Months	Grab
Total Chromium (ug/l)[d][e]	NA	NA	NA	NL	1/6Months	Grab
Hexavalent Chromium (ug/l)[d][e]	NA	NA	NA	NL	1/6Months	Grab
Total Phenolics (mg/l)[d][e]	NA	NA	NA	NL	1/6Months	Grab
Dissolved Nickel (ug/l)[d][e]	NA	NA	NA	NL	1/6Months	Grab
Total Vanadium(ug/l)[d][e]	NA	NA	NA	NL	1/6Months	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/6Months = In accordance with the following schedule: 1st half(January 1 - June 30); 2nd half(July 1 - December 31

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.F.1. for sampling methodology and reporting requirements.
[b] The grab sample shall be taken within the first hour but not later than 24 hours of the start of a discharge.
[c] See Part I.D.12 for Overflow of Untreated Coal Pile Runoff from a 10-Year/24-Hour Storm.
[d] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements.
[e] Monitoring and reporting shall commence upon notification to the DEQ that petroleum coke is being stored at the facility. No monitoring or reporting until petroleum coke is stored at the facility. The permittee shall notify the DEQ 30 days prior to first receiving petroleum coke.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 004 & 005 (screen backwash units); 007, 008 & 009 (river recirculation pits) - Discharge of unaltered waters as they are drawn from the source supply; 019 and 020 (Fish return lines)

Such discharges shall be limited and monitored by the permittee as specified below:

THESE DISCHARGES SHALL ONLY CONTAIN RIVER WATER FROM THE SCREEN BACKWASH UNITS, RIVER RECIRCULATION PITS AND FISH RETURN LINES. NO PROCESS WATER SHALL BE DISCHARGED FROM THESE OUTFALLS. NO MONITORING IS REQUIRED.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until all process wastewaters have been removed from the outfall, the permittee is authorized to discharge from outfall(s): 010 (storm runoff from areas surrounding ash silos and truck wash & small volume of process waters from the SCR dike, ash silo pump area, ash silo spray curtains and screen cleaning).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS [a]				MONITORING REQUIREMENTS [b]	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NA	NA	NA	NL	1/6Months	Estimate
pH (S.U.)	NA	NA	6.0	9.0	1/6Months	Grab
Total Suspended Solids (mg/l)	NA	NA	NA	100	1/6Months	Grab
TPH (mg/l)[c]	NA	NA	NA	NL	1/6Months	Grab
Dissolved Copper (ug/l)[c]	NA	NA	NA	NL	1/6Months	Grab
Dissolved Arsenic (ug/l)[c]	NA	NA	NA	NL	1/6Months	Grab
Dissolved Lead (ug/l)[c]	NA	NA	NA	NL	1/6Months	Grab
Dissolved Zinc (ug/l)[c]	NA	NA	NA	NL	1/6Months	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/6 Months = In accordance with the following schedule: 1st half January 1 - June 30);2nd half(July 1 - December 31)

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D.9.
[b] Sample shall be collected when storm water is contributing to the discharge.
[c] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with notification to DEQ that all process wastewaters have been removed from the outfall and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 010 (storm runoff from areas surrounding ash silos and truck wash).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS [a]				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NA	NA	NL	1/6Months	Estimate [c]
pH (S.U.)	NA	NA	NL	NL	1/6Months	Grab [d]
Total Suspended Solids (mg/l)	NA	NA	NA	NL	1/6Months	Grab
TPH (mg/l)[b]	NA	NA	NA	NL	1/6Months	Grab
Dissolved Copper (ug/l)[b]	NA	NA	NA	NL	1/year	Grab
Dissolved Arsenic (ug/l)[b]	NA	NA	NA	NL	1/year	Grab
Dissolved Lead (ug/l)[b]	NA	NA	NA	NL	1/year	Grab
Dissolved Zinc (ug/l)[b]	NA	NA	NA	NL	1/year	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/6 Months = In accordance with the following schedule: 1st half January 1 - June 30);2nd half(July 1 - December 31)

1/Year = January 1 - December 31

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D.9.
[b] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements.
[c] Estimate of the total volume of the discharge during the storm event.
[d] The grab samples shall be taken within the first hour but not later than 24 hours of the discharge.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 011 and 012 (regulated storm water runoff from industrial activity areas including the loop track area and fuel oil storage area)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NL	1/Year	Estimate [b]
pH (S.U.)	NL	NL	1/Year	Grab [c]
Total Suspended Solids (mg/l)[d]	NA	NL	1/Year	Grab
TPH (mg/l)[d]	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [d]	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [d]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts. I.F.1. for sampling methodology and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.
[d] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements.

2. There shall be no discharge of tank bottom waters.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 013, 015, 018, 021 (storm water not associated with a regulated industrial activity)

   Such discharges shall be limited and monitored by the permittee as specified below:

   THESE OUTFALLS SHALL CONTAIN ONLY STORM WATER RUNOFF NOT ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY WHERE NO MONITORING IS REQUIRED. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 016 and 017 (regulated storm water runoff from an industrial activity area)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NL	1/3Months	Estimate [b]
pH (S.U.)	NL	NL	1/Year	Grab [c]
Total Suspended Solids (mg/l)	NA	NL	1/Year	Grab
TPH (mg/l)[d]	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [d]	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [d][e]	NA	NL	1/3Months	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/3Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

These outfalls are considered substantially identical; outfall 016 may be sampled as a representative outfall for outfall 017; sample results shall be reported for both outfalls.

[a] See Parts. I.F.1. for sampling methodology and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.
[d] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements.
[e] See Part I.F. for Storm Water Evaluation requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 030 (regulated storm water runoff from an industrial activity area - coal unloading dock, after the first 1.0 inches of precipitation is collected for treatment)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NL	1/6Months	Estimate [b]
pH (S.U.)	NL	NL	1/6Months	Grab [c]
Total Suspended Solids (mg/l)	NA	NL	1/6Months	Grab
TPH (mg/l)[d]	NA	NL	1/6Months	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/6 Months = In accordance with the following schedule: 1st half January 1 - June 30);2nd half(July 1 - December 31)

This outfall shall only contain runoff from the coal unloading dock after the first inch of precipitation has been collected and diverted to the coal pile runoff treatment system

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts. I.F.1. for sampling methodology and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.
[d] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 031 (Chlorination Building - uncontaminated river water).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NA	NA	NA	NL	1/6Months	Estimate
pH (S.U.)	NA	NA	NL	NL	1/6Months	Grab
Total Residual Chlorine (mg/1) [a]	NA	NA	NA	NL	1/6Months	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/6 Months = In accordance with the following schedule: 1st half January 1 - June 30);2nd half(July 1 - December 3

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.D.5. and I.D.6. for quantification levels and reporting requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

3. There shall be no discharge from strainer cleaning to this outfall.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 101 (internal outfall to 001)- demineralizer regeneration wastes and RO wastes

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/3Months	Estimate
Oil & Grease (mg/l)	15	NA	NA	20	1/3Months	Grab
Total Suspended Solids (mg/l)	30	NA	NA	100	1/3Months	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 201 (internal outfall to 002)- Metals cleaning basin

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS [a]	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
Total Suspended Solids (mg/l)	30	NA	NA	100	1/Month	Grab
Oil & Grease (mg/l)	15	NA	NA	20	1/Month	Grab
Total Copper (mg/l)	1	NA	NA	1	1/Month	Grab
Total Iron (mg/l)	1	NA	NA	1	1/Month	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

[a] Unless otherwise approved, the sample shall be collected at the tap in the recirculation line. No wastewater shall be added to the basin after sample is collected prior to discharge for the sample period.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 206 (internal outfall to 002)- Sewage

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NA	NA	NA	NL	1/Month	Estimate
Total Residual Chlorine (mg/l) [a]	NA	NA	1.5	NA	1/Month	Grab
Enterrococci (N/100ml) [a]	NA	NA	NA	NL	1/Month	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.C. for Alternative Disinfection and Enterococci Monitoring

There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 301 (internal outfall to 003)- storm water from bermed bulk oil storage area

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NL	1/3Months	Estimate
TPH (mg/l)	NA	30	1/3Months	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

There shall be no discharge of tank bottom waters.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/DAY	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		2/M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	2.0	*********	MG/L		2/M	GRAB
013 NITROGEN, TOTAL (AS N)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	NL	*********	MG/L		2/M	GRAB
083 HEAT REJ**9	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	3.55	BTU/H	*********	*********	*********			CONT	REC
158 CL2, TOTAL FINAL	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	.021	.026	MG/L		2/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	002
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			2/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		2/M	GRAB
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30	50	MG/L		2/M	GRAB
005 CL2, TOTAL	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	.026	.026	MG/L		1/3M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	2.0	*********	MG/L		2/M	GRAB
013 NITROGEN, TOTAL (AS N)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	NL	*********	MG/L		2/M	GRAB
016 CHROMIUM, TOTAL (AS CR)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
023 CHROMIUM, HEXAVALENT (AS CR)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for chlorine - 0.1 mg/l; see permit for all other QL's

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	002
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
047 VANADIUM, TOTAL (AS V)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
066 PHENOLICS, TOTAL RECOVERABLE	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/6M	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
445 NICKEL, DISSOLVED (UG/L AS NI)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15	20	MG/L		2/M	GRAB
671 AMMONIA (AS NH3), TOTAL	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	NL	NL	MG/L		2/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL for chlorine - 0.1 mg/l; see permit for all other QL's

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
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TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	003
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/6M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		1/6M	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	50	MG/L		1/6M	GRAB
016 CHROMIUM, TOTAL (AS CR)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
023 CHROMIUM, HEXAVALENT (AS CR)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
047 VANADIUM, TOTAL (AS V)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
066 PHENOLICS, TOTAL RECOVERABLE	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/6M	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/6M	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
see permit for QL's

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	003
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
445 NICKEL, DISSOLVED (UG/L AS NI)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
see permit for QL's

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	010
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/6M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/6M	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/6M	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/6M	GRAB
405 LEAD, DISSOLVED	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
438 ARSENIC, DISSOLVED (UG/L AS AS)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
see permit for QL's

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	011
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/YR	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********			*********	*********					
	REQRMNT	*********	********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
see permit for QL's

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	012
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/YR	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********			*********	*********					
	REQRMNT	*********	********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
see permit for QL's

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	016
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/3M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
see permit for QL's

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	017
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/3M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
see permit for QL's

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	030
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/6M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/6M	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/6M	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/6M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
see permit for QL's

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	031
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MGD	*********	*********	*********			1/6M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/6M	GRAB
005 CL2, TOTAL	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/6M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
see permit for QL's

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	101
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/3M	EST
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30	100	MG/L		1/3M	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15	20	MG/L		1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	201
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/M	EST
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30	100	MG/L		1/M	GRAB
019 COPPER, TOTAL (AS CU)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1	1	MG/L		1/M	GRAB
031 IRON, TOTAL (AS FE)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1	1	MG/L		1/M	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15	20	MG/L		1/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	206
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MGD	*********	*********	*********			1/M	EST
005 CL2, TOTAL	REPORTD	*********	*********			*********	*********				
	REQRMNT	*********	*********		1.5	*********	*********	MG/L		1/M	GRAB
140 ENTEROCOCCI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	N/CML		1/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/23/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Chesapeake Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 2701 Vepco St, Chesapeake, VA 23323

VA0004081	301
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	********	NL	MG	*********	*********	*********			1/3M	EST
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	30	MG/L		1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

THIS REPORT IS REQUIRED BY LAW (33 U. S. C. § 1318 40 CFR 122.60). FAILURE TO REPORT OR FAILURE TO REPORT TRUTHFULLY CAN RESULT IN CIVIL PENALTIES NOT TO EXCEED $10,000 PER DAY OF VIOLATION: OR IN CRIMINAL PENALTIES NOT TO EXCEED $25,000 PER DAY OF VIOLATION OR BY IMPRISONMENT FOR NOT MORE THAN FIVE YEARS, OR BOTH.

GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces are blank or a limitation appears, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and, if appropriate, maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading". KG/DAY = Concentration(mg/l) x Flow(MGD) x 3.785.
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. Enter the number of samples which do not comply with the maximum and /or minimum permit requirements in the "reported" space in the column marked "No. Ex.".
7. Enter the actual frequency of analysis for each parameter (number of times per day, week, month) in the "reported" space in the column marked "Frequency of Analysis".
8. Enter the actual type of sample collected for each parameter in the "reported" space in the column marked "Sample Type".
9. Enter additional required data or comments in the space marked "additional permit requirements or comments".
10. Record the number of bypasses during the month, the total flow in million gallons and BOD5 in kilograms in the proper columns in the section marked "Bypasses and Overflows".
11. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator, the operator's certificate number should be reported in the space provided.
12. The principal executive officer should then review the form and sign in the space provided and provide a telephone number where he/she can be reached.
13. You are required to sample at the frequency and type indicated in your permit.
14. Send the completed form to your Dept. of Environmental Quality Regional Office by the 10th of each month.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each violation by date.
17. If you have any questions, contact the Dept. of Environmental Quality Regional Office.

B. BOILER/METALS CLEANING REQUIREMENTS

There shall be no discharge of the first rinse "waterside" boiler/metals cleaning effluent which includes EDTA from this facility. The second rinse of the boiler/metals cleaning activity at outfall 201 which includes EDTA (and any subsequent rinse activity) shall be a part of the copper samples collected from outfall 002.

There shall be no discharge of the first rinse "fireside and/or airside" boiler/metals cleaning effluent which includes EDTA from this facility.

C. ALTERNATIVE TO CHLORINATION AS A DISINFECTION METHOD - OUTFALL 206

1. If an alternative to chlorination as a disinfection method is chosen, *enterococci* shall be limited and monitored at outfall 206 by the permittee as specified below:

	Discharge Limitations	Monitoring Requirements	
	Monthly Average	Frequency	Sample Type
enterococci (n/100 ml)	35*	2/Month (Between 10 AM & 4 PM)	Grab

* Geometric Mean

The above requirements, if applicable, shall substitute for the TRC requirements delineated in Part I.A. for outfall 206

D. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1. Permit Reopeners

a. Water Quality Standards Reopener

Should effluent monitoring indicate the need for any water quality based limitation, this permit may be modified or, alternatively, revoked and reissued to incorporate appropriate limitations.

b. Nutrient Enriched Waters Reopener

This permit may be modified or, alternatively, revoked and reissued to include new or alternative nutrient limitations and/or monitoring requirements should the State Water Control Board adopt nutrient standards for the waterbody receiving the discharge or if a future water quality regulation or statute requires new or alternative nutrient control.

c. Total Maximum Daily Load (TMDL) Reopener

The State Water Control Board may modify or, alternatively, revoke and reissue this permit if any applicable standard(s) promulgated under section 303(d) of the Clean Water Act or as a result of the development of a TMDL would result in more stringent limits or other requirements in this permit.

2. Licensed Operator Requirement

The permittee shall employ or contract at least one Class III licensed wastewater works operator for this facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the State Water Control Board for Waterworks and Wastewater Works Operators. The permittee shall notify the Tidewater Regional Office in writing whenever he is not complying, or has grounds for anticipating he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

3. Operations and Maintenance (O & M) Manual (Industrial)

An Operations and Maintenance (O & M) Manual shall be developed and submitted to the DEQ Tidewater Regional Office for approval. This O&M Manual shall include descriptions of the treatment works operations and its contributing sources, and practices necessary to achieve compliance

with this permit. The Manual shall specifically address: treatment system operation; routine and emergency maintenance; wastewater and/or storm water collection, treatment and disposal/discharge; permitted outfall locations; effluent sampling and preservation procedures; laboratory testing, analysis and recording of results; submittal and retention of all records, reporting forms and testing results; and a listing of the personnel responsible for the above activities. Also included in the Manual shall be a list of facility, local and state emergency contacts; procedures for reporting and responding to any spills/overflows/ treatment works upsets; a copy of the VPDES/VPA permit; and copies of all reporting forms. Once approved, this Manual shall become an enforceable condition of this permit. Future changes to the facility must be addressed by the submittal of a revised O & M Manual.

Manual Due: No later than July 10, 2007

4. Notification Levels

The permittee shall notify the Department as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(1) One hundred micrograms per liter (100 ug/l);
(2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
(3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
(4) The level established by the State Water Control Board.

b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(1) Five hundred micrograms per liter (500 ug/l);
(2) One milligram per liter (1 mg/l) for antimony;
(3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application.
(4) The level established by the State Water Control Board.

5. Quantification Levels Under Part I.A.

a. The maximum quantification levels (QL) shall be as follows:

Effluent Characteristic	Quantification Level
Chlorine	0.1 mg/l
Ammonia-N	0.2 mg/l
TSS	1.0 mg/l
Total Phenolics	1.0 mg/l
Arsenic	50 ug/l
Copper	5 ug/l
Hexavalent Chromium	100 ug/l
Total Chromium	50 ug/l
Lead	50 ug/l
Nickel	50 ug/l
Vanadium	50 ug/l
Zinc	50 ug/l

b. The permittee may use any approved method which has a QL equal to or lower than the (QL) listed in 5.a above. The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method.

6. Compliance Reporting Under Part I.A.

a. Monthly Average -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.D.5.a shall be determined as follows: All data below the quantification level (QL) listed in Part 5.a. above shall be treated as zero. All data equal to or above the QL listed in 5.a. above shall be treated as it is reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, for the month. This arithmetic average shall be reported on the DMR as calculated. If all data are below the QL, then the average shall be reported as <QL.

b. Daily Maximum -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in Part 5.a. shall be determined as follows: All data below the quantification level (QL) listed in Part I.D.5.a. above shall be treated as zero. All data equal to or above the QL shall be treated as reported. An arithmetic average of the values shall be calculated using all reported data, including the defined zeros, collected for each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL, then the average shall be reported as <QL.

c. Any single datum required shall be reported as "<QL" if it is less than the QL listed in 5.a. above. Otherwise, the numerical value shall be reported.

d. Where possible, all limit values on the Part I.A. limits page(s) are expressed in two significant figures. As a result, single, trailing zeros occurring after any single digit are significant. Effluent limits of 10 or greater are rounded to two significant whole numbers. Monitoring results reported on the DMR should be reported to the accuracy of the test, which must be capable of reporting at least the same number of significant digits as the permit limit for a given parameter.

7. Materials Handling and Storage

Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes and/or other wastes to State waters, except as expressly authorized.

8. Cooling Water and Boiler Additives

a. If at any time during the life of this permit, the permittee decides to treat any non-contact cooling water unit(s) and/or boiler system(s) with chemical additives [other than those additives currently in use and on file with the DEQ Tidewater Regional Office], the following requirements shall be satisfied.

At least thirty (30) days prior to implementing any chemical addition to the cooling water and/or boiler equipment, the permittee shall **notify the DEQ Tidewater Regional Office, in writing**, of the following:

(1) The chemical additives to be employed and their purpose. Provide to the staff for review, a Material Safety Data Sheet (MSDS) for each proposed additive;

(2) Schedule of additive usage; and,

(3) Wastewater treatment and/or retention to be provided during the use of additives.

b. Should the addition of treatment chemicals significantly alter the characteristics of the effluent from the cooling water and/or boiler unit(s) or their usage becomes persistent or continuous, this permit shall be modified or, alternatively, revoked and reissued to include appropriate limitations or conditions.

9. Outfall 010

Interim effluent limitations for outfall 010 shall be effective until the permittee has removed all process wastewater discharges to the outfall. Upon notification from the permittee to the DEQ Tidewater Regional Office, final effluent limitations shall become effective at the start of the next monitoring period. In the event that process wastewater contributes to the discharge in the future, interim limitations shall become effective for the remainder of the permit term, upon notification from DEQ. Screen cleaning is allowed in the drainage area to outfall 010. Screen cleanings must be performed using water only, no detergents, solvents or cleaners. All material removed from the screens shall be collected by manual cleaning to prevent materials from entering the discharge point to the outfall. Proper structural and non-structural BMP's must be employed to prevent solids or other materials from discharging through the outfall.

10. Section 316(b) Phase II Requirements

As required by §316(b) of the Clean Water Act, the location, design, construction and capacity of the cooling water intake structures for the permitted facility shall reflect the best technology available (BTA) for minimizing adverse environmental impact. Within one year of the modification date of this permit the permittee shall submit biological data collected consistent with that described in the February, 2005 Proposal for Information Collection. This permit may be reopened to address compliance with Clean Water Act §316(b) through requirements including but not limited to those specified in EPA regulations in 40 CFR Part 125 Subpart J when finalized.

11. Polychlorinated Biphenyl (PCB) Compounds

There shall be no discharge of polychlorinated biphenyl compounds from this source in amounts equal to or greater than detectable by EPA test methods specified in Federal Register 40 CFR Part 136 Guidelines for Establishing Test Procedures for the Analysis of Pollutants.

12. Overflow of Untreated Coal Pile Runoff from a 10-Year/24-Hour Storm - Outfall 003

Any untreated overflow from facilities designed, constructed and operated to treat the volume of coal pile runoff which results from a 10-year/24-hour rainfall event shall not be subject to the total suspended solids limitation of 50 mg/l maximum concentration for outfall 003, at any time.

13. Collected Debris for Trash Intake Racks

Debris collected on intake trash racks shall not be returned to the receiving stream.

14. Mixing Zone Requirements

The permittee shall comply with State Water Quality Standards outside the approved thermal mixing zone. The approved mixing zone is defined as a section of the Southern Branch of the Elizabeth River bounded on the south by State Route 104 (Latitude 36° 44′ 10″ N; Longitude 76° 17′ 45″ W) on the North by the green day marker #GC17 (Latitude 36° 46′ 42″ N; Longitude 76° 18′ 30″ W). Also included in this mixing zone is a section of Deep Creek from its mouth to a point 100 yards downstream of its convergence with the abandoned Gilmerton-Deep Creek Canal (Latitude 36° 44′ 58″ N; Longitude 76° 20′ 10″ W). A map showing the approved mixing zone is incorporated in this permit. See Attachment.

Monitoring of this mixing zone shall take place once per year during the month of January or July. The monitoring results shall be presented as a temperature plot with 3°C isotherms and will be taken as near to full plant operating conditions as reasonably possible. Results of the mixing zone survey shall be submitted to DEQ by April 30 for surveys conducted in January and by October 31 for surveys conducted in July of each year.

15. Total Residual Chlorine Discharge Duration

Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day, and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the permittee can demonstrate to the DEQ that the units in a particular location cannot operate at or below this level of chlorination.

16. Coal Unloading Dock Conditions and BMP's

a. The dock area shall be cleaned on a regular basis to minimize the possibility that runoff will carry coal fines, trash, garbage, petroleum products or other debris into the receiving water. Cleanup of areas contributing runoff shall consist of mechanical or manual methods to sweep up and collect the debris.

b. Trash receptacles shall be provided and shall be emptied as necessary to prevent trash from entering State waters.

c. Leaking connections, valves, pipes, hoses carrying wastewater and coal chutes shall be replaced or repaired immediately. Coal chute and hose connections to vessels and to receiving lines or containers shall be tightly connected and leak free.

d. There shall be no exterior hull work on vessels while docked at this facility.

E. TOXICS MANAGEMENT PROGRAM (TMP)

1. Biological Monitoring

a. In accordance with the schedule in E.2.below, the permittee shall conduct annual toxicity tests for the duration of the permit. The permittee shall collect a grab sample of final effluent from outfalls 001 and 002 in accordance with the sampling methodology in Part I.A. of this permit. The grab samples for toxicity testing shall be taken at the same time as the monitoring for the outfalls in Part 1.A. of this permit. Annual acute and chronic tests shall be conducted for outfalls 001 and 002. The tests to use are:

48 Hour Static Acute test using Americamysis bahia

Chronic Static Renewal 7-day Survival and Growth Test with Americamysis bahia

The permittee shall collect grab samples of final effluent from outfalls 003 and 010 in accordance with the sampling methodology in Part I.A. and I.F.1. of this permit.
The grab samples for toxicity testing shall be taken at the same time as the monitoring for the outfalls in Part 1.A. of this permit. Annual acute tests shall be conducted for outfalls 003 and 010. The acute test to use is:

48 Hour Static Acute test using Americamysis bahia

b. The acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50}. Express the results as TU_a (Acute Toxic Units) by dividing 100/ LC_{50} for reporting.

The chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and growth. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for reporting. Report the LC50 at 48 hours and the IC25 with the NOEC's in the test report.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

c. In the event that sampling of any of the outfalls is not possible due to the absence of effluent flow during a particular testing period, the permittee shall perform a make-up sample during the next testing period.

d. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of the effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

e. The test dilutions shall be able to determine compliance with the following endpoints:

(1) Acute LC_{50} of 100% equivalent to a TU_a of 1.0

(2) Chronic NOEC of 100% equivalent to a TU_c of 1.0

2. Reporting Schedule

The permittee shall report the results and supply **two** complete copies of the toxicity test reports to the Tidewater Regional Office in accordance with the schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, and all chains of custody. **Attachment A** must be submitted with each complete report. **All data shall be submitted within 60 days of the sample date.**

(a)	**Conduct first annual TMP test for outfalls 001, 002, 003, and 010 using Americamysis bahia**	**By December 31, 2007**
(b)	**Submit results of all biological tests**	**Within 60 days of the sample date and no later than January 10, 2008**
(c)	**Conduct subsequent annual TMP tests for outfalls 001, 002, 003, and 010 using Americamysis bahia**	**By December 31, 2008, 2009, 2010 and 2011**
(d)	**Submit subsequent annual biological tests**	**Within 60 days of the sample date and no later than January 10, 2009, 2010, 2011 and 2012**

F. STORM WATER MANAGEMENT CONDITIONS

1. Sampling Methodology for Specific Outfalls 003, 010(final limits), 011, 012, 016, 017, 030

The following shall be required when obtaining samples required by Part I.A. of this permit:

a. At the time of sampling, the permittee shall ensure that the effects of tidal influences are kept to an absolute minimum. This can be achieved by:

(1) Sampling at low tide and/or

(2) Sampling at a representative point which has been demonstrated to be free of tidal influences

b. In the event that sampling of an outfall is not possible due to the absence of effluent flow during a particular testing period, the permittee shall provide written notification to DEQ Tidewater Regional Office with the DMR for the month following the period in which samples were to be collected.

2. Storm Water Management Evaluation

The Storm Water Pollution Prevention Plan (SWP3), which is to be developed and maintained in accordance with Part I.F.4 of this permit, shall have a goal of reducing pollutants discharged at all the regulated storm water outfalls.

a. Pollutant Specific Screening

The goal shall place emphasis on reducing, to the maximum extent practicable, the following screening criteria parameters in the outfalls noted below.

OUTFALL NO.	POLLUTANTS
016, 017	Dissolved Zinc

b. Toxicity Screening

The permittee shall conduct **annual acute toxicity tests** on outfalls 011, 012, and 016 using grab samples of final effluent. These acute screening tests shall be 48-hour static tests using Americamysis bahia, conducted in such a manner and at sufficient dilutions for calculation of a valid LC50.

The permittee shall conduct **annual acute toxicity tests** on outfall 030 using grab samples of final effluent. The acute screening test shall be 48-hour static tests using Americamysis bahia and Cyprinodon variegatus, conducted in such a manner and at sufficient dilutions for calculation of a valid LC50.

The tests shall be conducted on a calendar year basis with one copy of all **results and all supporting information results and all supporting information submitted within 60 days from the date which the sample was taken and no later than January 10th of each year.**

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3

If any of the biological screening tests are invalidated, an additional test shall be conducted within thirty (30) days of notification. If there is no discharge during this 30-day period, a sample must be taken during the first qualifying discharge, as described in 1.F.3.

c. Sampling methodology for the noted outfalls shall be in accordance with Part I.A. and Part I.F. of this permit. The permittee shall submit the following information **with the results of the toxicity tests.**

(1) The actual or estimated effluent flow at the time of the sampling.

(2) An estimate of the total volume of storm water discharged through each outfall during the discharge event.

(3) The time at which the discharge event began, the time at which the effluent was sampled, and the duration of the discharge event.

d. The effectiveness of the SWP3 will be evaluated via the required monitoring for all parameters listed in Part I.F.2.a. of this permit for the regulated storm water outfalls, including the screening criteria parameters and toxicity screening. Monitoring results which are either above the screening criteria values or, in the case of toxicity, result in an LC_{50} of less than 100% effluent, will not indicate unacceptable values. However, those results will justify the need to reexamine the effectiveness of the SWP3 and any best management practices (BMPs) being utilized for the affected outfalls. In addition, the permittee shall amend the SWP3 whenever there is a change in the facility or its operation which materially increases the potential for activities to result in a discharge of significant amounts of pollutants.

By February 10th of each year, the permittee shall submit to the DEQ Tidewater Regional Office an annual report which includes the pollutant-specific and **a summary** of the biological monitoring data from the outfalls included in this condition along with a summary of any steps taken to modify either the Plan or any BMPs based on the monitoring data.

The first Stormwater Management Evaluation report is due on February 10, 2008.

3. General Storm Water Conditions

a. Sample Type

For all storm water monitoring required in Part I.A. or other applicable sections of this permit, a minimum of one grab sample shall be taken. Unless otherwise specified, all such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge unless specified otherwise in this permit. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken during the first hour of the discharge, and the permittee shall document with the SWP3 a description of why a grab sample during the first 30 minutes was impracticable. If storm water discharges associated with industrial activity commingle with process or nonprocess water, then where practicable permittees must attempt to sample the storm water discharge before it mixes with the nonstorm water discharge.

b. Recording of Results

For each storm event monitored under Part I.A. of this permit, the permittee shall record and retain on site with the SWP3 the following information:

(1) The date and duration (in hours) of the storm event(s) sampled;

(2) The rainfall measurements or estimates (in inches) of the storm event which generated the sampled discharge; and

(3) The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event.

In addition, the permittee shall maintain a monthly log documenting the amount of rainfall received at this facility on a daily basis. This information shall be retained on site with the SWP3.

c. Sampling Waiver

When a permittee is unable to collect storm water samples required in Part I.A. or other applicable sections of this permit within a specified sampling period due to adverse climatic conditions, the permittee shall collect a substitute sample from a separate qualifying event in the next period and submit these data along with the data for the routine sample

in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

d. Representative Discharge

When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes substantially identical effluents are discharged, and the DEQ Tidewater Regional Office has approved them as such, the permittee may test the effluent of one of such outfalls and report that the quantitative data also apply to the substantially identical outfall(s) provided that the permittee includes in the SWP3 a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area [(i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)] shall be provided in the plan.

e. Quarterly Visual Examination of Storm Water Quality

Unless another more frequent schedule is established elsewhere within this permit, the permittee shall perform and document a visual examination of a storm water discharge associated with industrial activity from each outfall. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December. The visual examination must be made during daylight hours(e.g., normal working hours).

(1) Examinations shall be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed 1 hour) of when the runoff or snowmelt begins discharging. The examination shall document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well lit area. No analytical tests are required to be performed on the samples. All such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previous measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. Where practicable, the same

individual should carry out the collection and examination of discharges for the entire permit term.

(2) Visual examination reports must be maintained onsite with the SWP3. The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.

(3) When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may collect a sample of effluent of one of such outfalls and report that the examination data also applies to the substantially identical outfall(s) provided that the permittee includes in the SWP3 a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)) shall be provided in the plan.

(4) When the permittee is unable to conduct the visual examination due to adverse climatic conditions, the permittee must document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

f. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

The discharge of hazardous substances or oil in the storm water discharge(s) from a facility shall be prevented or minimized in accordance with the applicable SWP3 for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an onsite spill. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110 (1998), 40 CFR 117 (1998) or 40 CFR 302 (1998) occurs during a 24-hour period, the permittee is required to notify the Department in accordance with the requirements of Part II.G. of this permit as soon as he or she has knowledge of the discharge. In addition, the storm water pollution prevention plan required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate. This permit does not relieve the permittee of the

reporting requirements of 40 CFR 110 (1998), 40 CFR 117 (1998) and 40 CFR 302 (1998) or . 62.1-44.34:19 of the Code of Virginia.

g. Allowable Non-Storm Water Discharges

(1). The following non-storm water discharges are authorized by this permit provided the non-storm water component of the discharge is in compliance with Part g.(2), below.

(a) Discharges from fire fighting activities;

(b) Fire hydrant flushings;

(c) Potable water including water line flushings;

(d) Uncontaminated air conditioning or compressorcondensate;

(e) Irrigation drainage;

(f) Landscape watering provided all pesticides, herbicides, and fertilizers have been applied in accordance with manufacturer's instructions;

(g) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);

(h) Routine external building wash down which does not use detergents;

(i) Uncontaminated ground water or spring water;

(j) Foundation or footing drains where flows are not contaminated with process materials such as solvents;

(k) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains).

(2). For all regularly-occurring discharges listed in g.(1) above that occur in industrial areas, the Storm Water Pollution Prevention Plan must include:

(a) Identification of each allowable non-storm water source;

(b) The location where the non-storm water is likely to be discharged; and

(c) Descriptions of any BMPs that are being used for each source.

(3). If mist blown from cooling towers is included as one of the allowable non-storm water discharges from the facility, the permittee must specifically evaluate the potential for the discharges to be contaminated by chemicals used in the cooling tower, and must select and implement BMPs to control such discharges so that the levels of cooling tower chemicals in the discharges would not cause or contribute to a violation of an applicable water quality standard.

4. Storm Water Pollution Prevention Plan (SWP3)

A storm water pollution prevention plan (SWP3) shall be developed for the facility. The SWP3 shall be prepared in accordance with good engineering practices. The SWP3 shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the SWP3 shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. The permittee must implement the provisions of the SWP3 as a condition of this permit.

The SWP3 requirements of this permit may be fulfilled by incorporating by reference other plans or documents such as an erosion and sediment control plan, a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act or best management practices (BMP) programs otherwise required for the facility provided that the incorporated plan meets or exceeds the SWP3 requirements of this section. If an erosion and sediment control plan is being incorporated by reference, it shall have been approved by the locality in which the activity is to occur or by another appropriate plan approving authority authorized under the Virginia Erosion and Sediment Control Regulation 4 VAC 50-30-10 et seq. All plans incorporated by reference into the SWP3 become enforceable under this permit.

a. Deadlines for SWP3 Preparation and Compliance

Existing Facilities

The SWP3 which was previously prepared and implemented shall be complied with, and continually updated as needed in accordance with sections b., c., d. and e. below.

(1) Measures That Require Construction

In cases where construction is necessary to implement measures required by the SWP3, the SWP3 shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of the permit. Where a construction compliance schedule is included in the SWP3, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.

b. Signature and SWP3 Review

(1) Signature/Location

The SWP3 shall be signed in accordance with Part II.K. of this permit and be retained onsite at the facility which generates the storm water discharge in accordance with Part II.B. of this permit. For inactive facilities, the SWP3 may be kept at the nearest office of the permittee.

(2) Availability

The permittee shall make the SWP3, annual site compliance inspection report, or other information available to the DEQ upon request.

(3) Required Modifications

The Tidewater Regional Office may notify the permittee at any time that the SWP3 does not meet one or more of the minimum requirements of the permit. Such notification shall identify those provisions of the permit which are not being met by the SWP3, and identify which provisions of the plan require modifications in order to meet the minimum requirements of this permit. Within 60 days of such notification, the permittee shall make the required changes to the SWP3 and shall submit to the DEQ Tidewater Regional Office a written certification that the requested changes have been made.

c. Keeping SWP3s Current

The permittee shall amend the SWP3 whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the potential for the discharge of pollutants to surface waters of the State or if the SWP3 proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under section d. below, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. New owners shall review the existing SWP3 and make appropriate changes. Amendments to the plan may be reviewed by the Department in the same manner as noted in section b. above.

d. Contents of SWP3

The contents of the SWP3 shall comply with the requirements listed below and those in Part I.F.5. (Facility-specific Storm Water Conditions) of this permit; these requirements are cumulative. The SWP3 shall include, at a minimum, the following items.

(1) Pollution Prevention Team

The SWP3 shall identify a specific individual or individuals within the facility organization as members of a storm water pollution prevention team that are responsible for developing the SWP3 and assisting the facility or plant manager in its implementation, maintenance, and revision. The SWP3 shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's SWP3.

(2) Description of Potential Pollutant Sources

The SWP3 shall provide a description of potential sources which may reasonably be expected to add significant amounts of pollutants to storm water discharges or that may result in the discharge of pollutants during dry weather from separate storm sewers draining

the facility. The SWP3 shall identify all activities and significant materials which may potentially be significant pollutant sources. The SWP3 shall include, at a minimum:

(a) Drainage

i. A site map indicating an outline of the portions of the drainage area of each storm water outfall within the facility boundaries, each existing structural control measure to reduce pollutants in storm water runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under section (2)(c) below have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes and wastewaters; locations used for the treatment, filtration or storage of water supplies; liquid storage tanks; processing areas; and, storage areas. The map must indicate the outfall locations and the types of discharges contained in the drainage areas of these outfalls.

ii. For each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow, and an identification of the types of pollutants which are likely to be present in the storm water discharges. Factors to consider include: the toxicity of chemicals; quantity of chemicals used, produced or discharged; the likelihood of contact with storm water; and, history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified.

(b) Inventory of Exposed Materials

An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of three years prior to the effective date of this permit and the present; method and location of on-site storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff between the time of three years prior to the effective date of this permit and the present; the location and a description of existing structural and non-structural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives.

(c) Spills and Leaks

A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility after the date of three years prior to the effective date of this permit. Such list shall be updated as appropriate during the term of the permit.

(d) Sampling Data

A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility, including a summary of sampling data collected during the term of this permit.

(e) Risk Identification and Summary of Potential Pollutant Sources

A narrative description of the potential pollutant sources from the following activities: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and, on-site waste disposal practices and wastewater treatment activities to include sludge drying, storage, application or disposal activities. The description shall specifically list any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g., biochemical oxygen demand, total suspended solids, etc.) of concern shall be identified.

(3) Measures and Controls

The permittee shall develop a description of storm water management controls appropriate for the facility and implement these controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls.

(a) Good Housekeeping

Good housekeeping requires the clean and orderly maintenance of areas which may contribute pollutants to storm water discharges. The SWP3 shall describe procedures performed to minimize contact of materials with storm water runoff. Particular attention should be paid to areas where raw materials are stockpiled, material handling areas, storage areas, liquid storage tanks, material handling areas, and loading/unloading areas.

(b) Preventive Maintenance

A preventive maintenance program shall involve: timely inspection and maintenance of storm water management devices (e.g., cleaning oil/water separators, catch basins); inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures which could result in discharges of pollutants to surface waters; and, appropriate maintenance of such equipment and systems.

(c) Spill Prevention and Response Procedures

Areas where potential spills may occur which can contribute pollutants to storm water discharges, and their accompanying drainage points shall be identified clearly in the SWP3. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the SWP3 and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to the appropriate personnel.

(d) Inspections

In addition to or as part of the comprehensive site compliance evaluation required under section d.(4) below, qualified facility personnel who are familiar with the industrial activity, the Best Management Practices (BMPs) and the SWP3 shall be identified to inspect designated equipment and areas of the facility at appropriate intervals. The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained with the pollution prevention plan.

(e) Employee Training

Employee training programs shall inform personnel responsible for implementing activities identified in the SWP3 or otherwise responsible for storm water management at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. The SWP3 shall identify periodic dates for such training.

(f) Recordkeeping and Internal Reporting Procedures

A description of incidents such as spills, or other discharges, along with other information describing the quality and quantity of storm water discharges shall be included in the SWP3. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.

(g) Sediment and Erosion Control

The SWP3 shall identify areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.

(h) Management of Runoff

The SWP3 shall contain a narrative consideration of the appropriateness of traditional storm water management practices [practices other than those which control the generation or source(s) of pollutants] used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The SWP3 shall provide for the implementation and maintenance of measures that the permittee determines to be reasonable and appropriate. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices; reuse of collected storm water (such as for a process or as an irrigation source); inlet controls (such as oil/water separators); snow management activities; infiltration devices; wet detention/retention devices; or, other equivalent measures.

(4) Comprehensive Site Compliance Evaluation

Qualified facility personnel who are familiar with the industrial activity, the BMPs and the SWP3 shall conduct site compliance evaluations at appropriate intervals specified in the SWP3, but, in no case less than once a year during the permit term. Such evaluations shall include the following.

(a) Areas contributing to a storm water discharge associated with industrial activity, such as material storage, handling and disposal activities, shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural

storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the SWP3 shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the SWP3, such as spill response equipment, shall be made.

(b) Based on the results of the evaluation, the description of potential pollutant sources identified in the SWP3 in accordance with section d.(2) above and pollution prevention measures and controls identified in the SWP3 in accordance with section d.(3) above shall be revised as appropriate within 2 weeks of such evaluation and shall provide for implementation of any changes to the SWP3 in a timely manner, but in no case more than 12 weeks after the evaluation.

(c) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the SWP3, and actions taken in accordance with section (4)(b) above shall be made and retained as part of the SWP3 for at least three years from the date of the evaluation. The report shall identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the SWP3 and this permit. The report shall be signed in accordance with Part II.K. of this permit.

(d) Where compliance evaluation schedules overlap with inspections required under section d.(3)(d), the compliance evaluation may be conducted in place of one such inspection.

5. Facility-specific Storm Water Conditions

a. Good housekeeping measures.

(1) Fugitive dust emissions.

The permittee shall describe and implement measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize off-site tracking of coal dust such as installing specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.

(2) Delivery vehicles.

The plan must describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee shall consider the following:

(a) Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and

(b) Develop procedures to deal with leakage/spillage from vehicles or containers.

(3) Fuel oil unloading areas.

The plan must describe measures that prevent or minimize contamination of precipitation/surface runoff from fuel oil unloading areas. At a minimum the permittee must consider using the following measures, or an equivalent:

(a) Use of containment curbs in unloading areas;

(b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

(c) Use of spill and overflow protection (e.g., drip pans, drip diapers, and/or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).

(4) Chemical loading/unloading areas.

The permittee must describe and implement measures that prevent or minimize the contamination of precipitation/surface runoff from chemical loading/unloading areas. At a minimum the permittee must consider using the following measures (or their equivalents):

(a) Use of containment curbs at chemical loading/unloading areas to contain spills;

(b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

(c) Covering chemical loading/unloading areas, and storing chemicals indoors.

(5) Miscellaneous loading/unloading areas.

The permittee shall describe and implement measures that prevent or minimize the contamination of storm water runoff from loading and unloading areas. The permittee shall consider the following, at a minimum (or their equivalents): covering the loading area; grading, berming, or curbing around the loading area to divert runon; or locating the loading/unloading equipment and vehicles so that leaks are contained in existing containment and flow diversion systems.

(6) Liquid storage tanks.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from aboveground liquid storage tanks. At a minimum the permittee must consider employing the following measures (or their equivalents):

(a) Use of protective guards around tanks;

(b) Use of containment curbs;

(c) Use of spill and overflow protection ; and

(d) Use of dry cleanup methods.

(7) Large bulk fuel storage tanks.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from large bulk fuel storage tanks. At a minimum the permittee must consider employing containment berms (or its equivalent). The permittee shall also comply with applicable state and federal laws, including Spill Prevention Control and Countermeasures (SPCC).

(8) Spill reduction measures.

The permittee shall describe and implement measures to reduce the potential for an oil/chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all aboveground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(9) Oil bearing equipment in switchyards.

The permittee shall describe and implement measures to prevent or minimize contamination of surface runoff from oil bearing equipment in switchyard areas. The permittee shall consider the use of level grades and gravel surfaces to retard flows and limit the spread of spills, and the collection of storm water runoff in perimeter ditches.

(10) Residue hauling vehicles.

All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the container body. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds must be repaired as soon as practicable.

(11) Ash loading areas.

The permittee shall describe and implement procedures to reduce or control the tracking of ash/residue from ash loading areas where practicable, clear the ash building floor and immediately adjacent

roadways of spillage, debris and excess water before departure of each loaded vehicle.

(12) Areas adjacent to disposal ponds or landfills.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee must develop procedures to:

(a) Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and

(b) Reduce ash residue on exit roads leading into and out of residue handling areas.

(13) Landfills, scrapyards, surface impoundments, open dumps, general refuse sites.

The plan must address and include appropriate BMPs for landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(14) Vehicle maintenance activities.

For vehicle maintenance activities performed on the plant site, the permittee shall use the applicable BMPs outlined in Sector P of 9 VAC 25-151-10 et seq.

(15) Material storage areas.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay down areas). The permittee shall consider the use of the following measures (or their equivalents): flat yard grades; runoff collection in graded swales or ditches; erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins); covering lay down areas; storing materials indoors; and covering materials temporarily with polyethylene, polyurethane, polypropylene, or hypalon. Storm water runon may be minimized by constructing an enclosure or building a berm around the area.

a. Comprehensive site compliance evaluation.

As part of the evaluation, qualified facility personnel shall inspect the following areas on a monthly basis: coal handling areas, loading/unloading areas, switchyards, fueling areas, bulk storage areas, ash handling areas, areas adjacent to disposal ponds and landfills, maintenance areas, liquid storage tanks, and long term and short term material storage areas.

ATTACHMENT A
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
TMP SUBMITTAL COVER SHEET

This form shall be completed for, and submitted with, each report of toxicity testing.

THIS REPORT SHALL CONTAIN THE FOLLOWING ITEMS	
	COMPLETED CHAIN OF SAMPLE CUSTODY
	CERTIFICATE OF ANALYSIS(ES)
	COMPLETE REPORT OF TOXICITY TESTING

VPDES PERMIT NUMBER: VA0004081

FACILITY NAME: Virginia Power-Chesapeake Energy Center

FACILITY LOCATION: Vepco Street, Chesapeake, VA 23320

OUTFALL NUMBER (circle one): 001 002 003 010 011 012 016 030

REPORTING PERIOD (ex: 2007 Annual, 1st Qtr. 2007): _____

SAMPLE TYPE (circle one): Stormwater Wastewater

WASTEWATER SOURCE(S) (if process wastewater, provide a brief source description):

_____

_____

STORM EVENT INFORMATION (if applicable):

Sample Date and Time of Collection: _____

Time discharge began: _____

Storm event measurement (inches): _____

Time between sampling and
last measurable storm event (hours): _____

ADDITIONAL INFORMATION:
If this sample is a **make-up** sample or a **retest**, indicate which category of test and the reporting period this submittal applies to:

Report Type: (i.e., makeup, retest, etc.) _____

Reporting Period: _____

If the required TMP sample(s) were not collected provide a reason/rationale:

_____

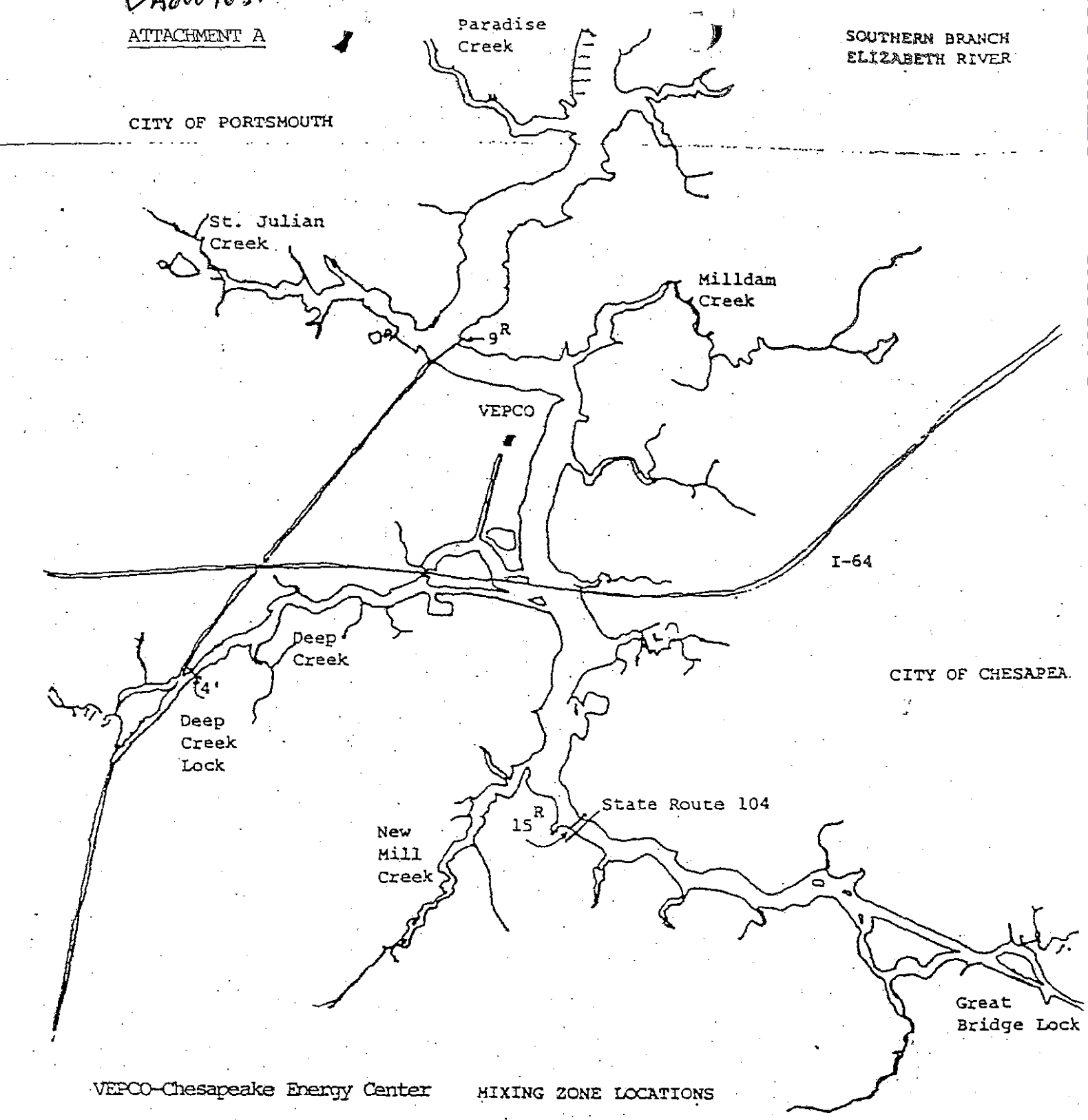
CERTIFICATION:
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

_____

Signature, printed name and title of Principal Officer or Authorized Agent / Date

VA0004081

ATTACHMENT A



VEPCO-Chesapeake Energy Center MIXING ZONE LOCATIONS

ansect	Latitude North	Longitude West	Transect Direction	Available Landmarks
15R	36° 44' 10"	76° 17' 45"	SW to NE	This transect parallels State Route 104.
9R	36° 46' 42"	76° 18' 30"	SW to NE	This transect follows a southwest line from green day marker #C27.
4'	36° 44' 58"	76° 20' 10"	NW to SE	This transect is on Deep Creek approximately [illegible]

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring.

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.

2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.

3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records.

1. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;

   b. The individual(s) who performed the sampling or measurements;

   c. The date(s) and time(s) analyses were performed;

   d. The individual(s) who performed the analyses;

   e. The analytical techniques or methods used; and

   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results.

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Department of Environmental Quality
   Tidewater Regional Office
   5636 Southern Boulevard
   Virginia Beach, VA 23462

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information.

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges.

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or

2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges.

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;

2. The cause of the discharge;

3. The date on which the discharge occurred;

4. The length of time that the discharge continued;

5. The volume of the discharge;

6. If the discharge is continuing, how long it is expected to continue;

7. If the discharge is continuing, what the expected total volume of the discharge will be; and

8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges.

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;

2. Breakdown of processing or accessory equipment;

3. Failure or taking out of service some or all of the treatment works; and

4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:

   a. Any unanticipated bypass; and

   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:

   a. A description of the noncompliance and its cause;

   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and

   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the Department's Regional Office at (757) 518-2000 (voice) or (757) 518-2103 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes.

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

      (1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or

      (2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit,

including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements.

1. Applications. All permit applications shall be signed as follows:

a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part II K 1;

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

   c. The written authorization is submitted to the Department.

3. Changes to Authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification:

   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply.

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with

certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit.

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law.

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges.

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.

2. Notice

a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.

b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.

3. Prohibition of bypass.

a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:

(1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required under Part II U 2.

b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset.

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. An upset occurred and that the permittee can identify the cause(s) of the upset;

b. The permitted facility was at the time being properly operated;

c. The permittee submitted notice of the upset as required in Part II I; and

d. The permittee complied with any remedial measures required under Part II S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry.

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions.

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits.

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;

   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2 b.

Z. Severability.

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
PIEDMONT REGIONAL OFFICE
4949A Cox Road, Glen Allen, Virginia 23060
(804) 527-5020 Fax (804) 527-5106
www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

Michael P. Murphy
Regional Director

September 23, 2016

Ms. Pamela F. Faggert
Vice President and Chief Environmental Officer
Virginia Electric and Power Company
5000 Dominion Boulevard
Glen Allen, Virginia 23060

Send Via Email To: Pamela.Faggert@dom.com

RE: VPDES Permit No. VA0004146, Dominion Chesterfield Power Station

Dear Ms. Faggert:

Your VPDES permit is enclosed. As indicated in the Fact Sheet, your permit has changed; please read the permit carefully because you are responsible for complying with all conditions of the permit. The first DMRs required by this permit for monthly monitored parameters are due on November 10, 2016, for the monitoring period of October 2016. The first DMRs required by this permit for quarterly monitored parameters are due on January 10, 2017, for the monitoring period of October-December 2016. The first DMR required by this permit for annually monitored parameters is due on January 10, 2018, for the monitoring period of January-December 2017. If you still have DMR data to report as required by the previous permit, please submit it as an attachment to the first DMR required by this permit. Monitoring results on the DMRs should be reported to the same number of significant digits as are included in the permit limit for the parameter.

Please note that if this permit is to be reissued in five years, there are specific testing requirements associated with the Form 2A reissuance application that are different from the testing requirements in your permit. In order to provide the necessary data for Form 2A you may need to begin additional sampling during the term of this permit prior to receiving a reissuance reminder letter from this agency. Please look at Form 2A Part D (Expanded Effluent Testing Data) and Part E (Toxicity Testing Data) for the sampling requirements.

40 CFR §125.95(a)(2), states that for existing facilities whose current effective permit expires after July 14, 2018, the permittee is to submit information required in the applicable provisions of 40 CFR §122.21(r) when applying for the subsequent permit. As a delegated NPDES authority, DEQ plans to incorporate these federal regulations and intends to require the permittee to furnish information consistent with the applicable provisions of 40 CFR §122.21(r), State law, and regulations as part of the application for the next reissuance.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under §§ 62.1 - 44.16, 62.1 - 44.17, and 62.1 - 44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in 9VAC25-230-130 (Procedural Rule No. 1 – Petition for formal hearing). In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

If you have any questions about the permit, please contact Joseph Bryan at 804-527-5012 or joseph.bryan@deq.virginia.gov.

Sincerely,

Michael P. Murphy
Regional Director
Piedmont Regional Office

Enclosures: Permit No. VA0004146, Fact Sheet

cc: DEQ Deputy Regional Director: Kyle.Winter@deq.virginia.gov
DEQ Compliance Auditor: Patrick.Bishop@deq.virginia.gov
DEQ Inspection Team Leader: Heather.Deihls@deq.virginia.gov
DEQ Office of VPDES Permits: Elleanore.Daub@deq.virginia.gov
Cathy Taylor: Cathy.C.Taylor@dom.com
Kenneth Roller: Kenneth.Roller@dom.com

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. VA0004146

Effective Date: October 01, 2016
Expiration Date: September 30, 2021

AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA POLLUTION DISCHARGE ELIMINATION SYSTEM AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, and Parts I and II of this permit, as set forth herein.

OWNER:	Virginia Electric and Power Company
FACILITY NAME:	Dominion Chesterfield Power Station
COUNTY:	Chesterfield
FACILITY LOCATION:	500 Coxendale Road

The owner is authorized to discharge to the following receiving stream:

STREAM:	James River
RIVER BASIN:	James River
RIVER SUBBASIN:	James River (Lower)
SECTION:	1
CLASS:	II
SPECIAL STANDARDS:	bb

Deputy Regional Director, Piedmont Regional Office

23 SEPTEMBER 2016

Date

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date the permittee is authorized to discharge from outfall serial number 001 – Condenser Cooling Water from Units 7 and 8.

a. Such discharges shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	DAILY MINIMUM	DAILY MAXIMUM	FREQUENCY	SAMPLE TYPE
(001) Flow (MGD)	NL	NA	NA	NL	Continuous	Calculated
(005) Total Residual Chlorine (µg/L) (2)	22	NA	NA	32	1 per Week	Grab(3)
(078) Temperature (ºF) (4)	NA	NA	NA	NL	Continuous	Measured
(082) Heat Rejected (BTU/Hour)	Heat rejected shall not exceed a maximum of $11.3 * 10^8$				Continuous(1)	Recorded(1)

"NL" means no limitation is established. Monitoring and reporting, however, are required.
"NA" means not applicable

(1) The heat rejected calculation requires the following information: The gross turbine-generator loading and the condenser backpressure. These values are continually measured and recorded.

(2) Also see Part I.C.4.

(3) While chlorinating.

(4) The maximum unit discharge temperature from any of the contributing units shall be reported. The unit discharge temperatures from all units shall be continuously recorded utilizing an existing electronic data storage system (which cannot be calibrated to a NIST reference thermometer).

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

c. Effluent samples shall be collected downstream from the point of dechlorination.

d. When Part I.A.2 is effective, process wastewater from internal Outfall 101 may be discharged through Outfall 001.

e. Sampling for the parameters listed above may take place prior to commingling with treated process wastewater from internal Outfall 101.

2. During the period beginning with the commencement of drawdown at the Upper Ash Pond (UAP) or Lower Ash Pond (LAP), whichever occurs first, and lasting until completion of dewatering activities, or the permit's expiration date, whichever occurs sooner, the permittee is authorized to discharge from outfall serial number 101 – UAP and LAP Effluent – Closure (see Part I.C.24 for the definition of Closure).

   a. Such discharges shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		WEEKLY AVERAGE	DAILY MINIMUM	DAILY MAXIMUM		FREQUENCY(3)	SAMPLE TYPE
(001) Flow (MGD)	NL		NA	NA	5.0		Continuous	Measured
(002) pH (SU)	NA		NA	6.0	9.0		3 per Week	Grab
(004) Total Suspended Solids	30 mg/l(1)	560 Kg/d(1)	NA	NA	88 mg/l(6)	1670 Kg/d(6)	3 per Week	Grab
(005) Total Residual Chlorine (µg/L)	18		NA	NA	32		3 per Week	Grab
(007) Dissolved Oxygen (mg/L)	NA		NA	NL	NA		3 per Week	Grab
(019) Total Recoverable Copper (µg/L)	11		NA	NA	20(1)		3 per Week	4-HC
(023) Dissolved Chromium VI (µg/L)(7)	17		NA	NA	32		3 per Week	4-HC
(059) Total Organic Carbon (mg/L)	NA		NA	NA	110(1)		1 per Month	Grab
(090) Total Recoverable Molybdenum (µg/L)	NL		NA	NA	NL		1 per Month	24-HC
(137) Total Hardness (as $CaCO_3$) (mg/L)	NL		NA	NA	NL		3 per Week	4-HC
(145) Chloride (mg/L)	360(1)		NA	NA	660(1)		3 per Week	4-HC
(151) Total Recoverable Barium (µg/L)	NL		NA	NA	NL		1 per Month	24-HC
(185) Total Recoverable Nickel (µg/L)	26		NA	NA	48		3 per Week	4-HC
(186) Total Recoverable Silver (µg/L)	2.7		NA	NA	5.0		3 per Week	4-HC

(193) Total Recoverable Thallium (µg/L)	0.90	NA	NA	0.90	3 per Week	4-HC
(196) Total Recoverable Zinc (µg/L)	100[1]	NA	NA	190[1]	3 per Week	4-HC
(202) Total Recoverable Cadmium (µg/L)	1.4	NA	NA	2.6	3 per Week	4-HC
(212) Total Recoverable Arsenic (µg/L)	240[1]	NA	NA	440[1]	3 per Week	4-HC
(232) Total Recoverable Chromium III (µg/L)[7]	100[1]	NA	NA	190[1]	3 per Week	4-HC
(233) Total Recoverable Lead (µg/L)	17	NA	NA	31	3 per Week	4-HC
(235) Total Recoverable Mercury (µg/L)	1.2	NA	NA	2.2	3 per Week	Grab
(237) Total Recoverable Cobalt (µg/L)	NL	NA	NA	NL	1 per Month	24-HC
(257) Total Petroleum Hydrocarbons (TPH) (mg/L)[4] [5]	NA	NA	NA	NL	1 per Year	Grab
(361) Total Recoverable Iron (µg/L)	NL	NA	NA	NL	1 per Month	24-HC
(372) Total Recoverable Boron (µg/L)	NL	NA	NA	NL	1 per Month	24-HC
(408) Total Recoverable Selenium (µg/L)	7.7	NA	NA	14	3 per Week	4-HC
(409) Total Recoverable Vanadium (µg/L)	NL	NA	NA	NL	1 per Month	24-HC
(410) Total Recoverable Aluminum (µg/L)	NL	NA	NA	NL	1 per Month	24-HC
(500) Oil and Grease (mg/L)	15	NA	NA	20[1]	3 per Week	Grab
(704) WET Limitation, *Ceriodaphnia dubia* (NOAEC) [2]	NA	NA	100%	NA	1 per Month	24-HC
(705) WET Limitation, *Pimephales promelas* (NOAEC) [2]	NA	NA	100%	NA	1 per Month	24-HC
(720) WET Limitation, *Ceriodaphnia dubia* (TU_c) [2]	NA	NA	NA	2.85	1 per Month	24-HC
(721) WET Limitation, *Pimephales promelas* (TU_c) [2]	NA	NA	NA	2.85	1 per Month	24-HC

(796) Total Recoverable Beryllium (µg/L)	NL	NA	NA	NL	1 per Month	24-HC
(797) Total Recoverable Antimony (µg/L)	1,300[(1)]	NA	NA	1,300[(1)]	3 per Week	4-HC

"NL" means no limitation is established. Monitoring and reporting, however, are required.
"NA" means not applicable
"3 per Week" shall occur at least three (3) days per week with a minimum of 48 hours between sampling events. A sampling week extends Sunday through Saturday. The permittee shall receive results for parameters identified with a monitoring frequency of "3 per Week" within four business days of taking the sample. Results of the weekly sampling shall be reported to DEQ no later than the close of business Friday of the week following sample collection. This reporting requirement does not substitute for, or alter, Part II.C concerning the monthly reporting of monitoring results with the Discharge Monitoring Report.
"1 per Month" monitoring means the composite period for parameters identified with a frequency of 1 per Month for Outfall 101 shall occur within the composite period for the WET monitoring.

(1) Limitation expressed in two significant figures.

(2) See Part I.C.17.b.

(3) See Part I.C.27 for drawdown requirements.

(4) TPH is the sum of individual gasoline range organics and diesel range organics (or TPH-GRO and TPH-DRO) to be measured by EPA SW846 Method 8015 for gasoline and diesel range organics, or by EPA SW846 Methods 8260 Extended and 8270 Extended.

(5) At least one sample shall be taken during closure activities.

(6) Limitation expressed in three significant figures.

(7) Both Chromium III and Chromium VI may be measured by the total chromium analysis. The total chromium analytical test QL shall be less than or equal to the lesser of the Chromium III or Chromium VI method QL listed in Part I.C.14.a.

If the result of the total chromium analysis is less than the analytical test QL, both Chromium III and Chromium VI can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].

If the result of the total chromium analysis is detectable, both Chromium III and Chromium VI shall be reported as the number measured.

If the result of the total chromium analysis exceeds effluent limitations for Chromium III, Chromium VI, or both, the result shall be considered a violation of the respective limitations.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

c. This facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN040086, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia.

d. See Part I.C.24 for details on when closure monitoring and limits become effective.

e. The discharge from internal Outfall 101 is authorized to discharge through Outfall 001 or 002.

f. There shall be no discharge of bottom ash or fly ash transport wastewaters generated at this facility on or after November 1, 2018. On or after November 1, 2018, any bottom ash or fly ash transport wastewaters generated at this facility prior to that date shall be regarded as legacy wastewaters, which may be discharged in accordance with the above respective Part I.A. subpart requirements for this outfall.

3. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 002 – Condenser Cooling Water from Unit 3.

   a. Such discharges shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	DAILY MINIMUM	DAILY MAXIMUM	FREQUENCY	SAMPLE TYPE
(001) Flow (MGD)	NL	NA	NA	NL	Continuous	Calculated
(005) Total Residual Chlorine (µg/L) (2)	22	NA	NA	32	1 per Week	Grab(3)
(019) Dissolved Copper (µg/L)	NL	NA	NA	NL	1 per Quarter	Grab
(078) Temperature (ºF) (4)	NA	NA	NA	NL	Continuous	Measured
(082) Heat Rejected (BTU/Hour)	Heat rejected shall not exceed a maximum of $6.52 * 10^8$				Continuous (1)	Recorded(1)

"NL" means no limitation is established. Monitoring and reporting, however, are required.
"NA" means not applicable
"1 per Quarter" means one sample taken every calendar quarter, in accordance with the following schedule: 1st Quarter (January 1 – March 31, to be reported on the Discharge Monitoring Report (DMR) due no later than April 10th); 2nd Quarter (April 1 – June 30, to be reported on the DMR due no later than July 10th); 3rd Quarter (July 1 – September 30, to be reported on the DMR due no later than October 10th); 4th Quarter (October 1 – December 31, to be reported on the DMR due no later than January 10th).

   (1) The heat rejected calculation requires the following information: The gross turbine-generator loading and the condenser backpressure. These values are continually measured and recorded.

   (2) Also see Part I.C.4.

   (3) While chlorinating.

   (4) The maximum unit discharge temperature shall be reported. The unit discharge temperature shall be continuously recorded utilizing an existing electronic data storage system (which cannot be calibrated to a NIST reference thermometer).

   b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

   c. Effluent samples shall be collected downstream from the point of dechlorination.

   d. When Part I.A.2 is effective, process wastewater from internal Outfall 101 may be discharged through Outfall 002.

   e. Sampling for the parameters listed above may take place prior to commingling with treated process wastewater from internal Outfall 101.

4. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 003 – Condenser Cooling Water from Units 4, 5, and 6.

   a. Such discharges shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	DAILY MINIMUM	DAILY MAXIMUM	FREQUENCY	SAMPLE TYPE
(001) Flow (MGD)	NL	NA	NL	NL	Continuous	Calculated
(005) Total Residual Chlorine (µg/L) (2)	11	NA	NA	16	1 per Week	Grab(3)
(078) Temperature (ºF) (4)	NA	NA	NA	NL	Continuous	Measured
(083) Heat Rejected (BTU/Hour)	Heat rejected shall not exceed a maximum of $5.55 * 10^9$				Continuous (1)	Recorded(1)

"NL" means no limitation is established. Monitoring and reporting, however, are required.
"NA" means not applicable

(1) The heat rejected calculation requires the following information: The gross turbine-generator loading and the condenser backpressure. These values are continually measured and recorded.

(2) Also see Part I.C.4.

(3) While chlorinating.

(4) The maximum unit discharge temperature from any of the contributing units shall be reported. The unit discharge temperatures from all units shall be continuously recorded utilizing an existing electronic data storage system (which cannot be calibrated to a NIST reference thermometer).

   b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

   c. Effluent samples shall be collected downstream from the point of dechlorination.

5. During the period beginning with the commencement of discharge from the Low Volume Wastewater Treatment System (LVWWTS) and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 301 – Effluent from LVWWTS.

   a. Such discharges shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	DAILY MINIMUM	DAILY MAXIMUM	FREQUENCY	SAMPLE TYPE
(001) Flow (MGD)	NL	NA	NA	6.0	Continuous	Calculated
(002) pH (SU)	NA	NA	6.0	9.0	1 per Day	Grab
(004) Total Suspended Solids (TSS) (mg/L)	30(1)	NA	NA	50(1)	1 per Month	Grab
(005) Total Residual Chlorine (µg/L)	180(1)	NA	NA	180(1)	1 per Month	Grab
(019) Interim – Total Recoverable Copper (µg/L)(2)	NL	NA	NA	NL	1 per Month	24-HC
(019) Final – Total Recoverable Copper (µg/L)(2)	72	NA	NA	72	1 per Month	24-HC
(039) Ammonia as N (kg/d)	NA	NA	NA	235 kg/d	1 per Week	Grab
(145) Interim – Chloride (mg/L)(2)	NL	NA	NA	NL	1 per Month	24-HC
(145) Final – Chloride (mg/L)(2)	3100(1)	NA	NA	3100(1)	1 per Month	24-HC
(185) Interim – Total Recoverable Nickel (µg/L)(2)	NL	NA	NA	NL	1 per Month	24-HC
(185) Final – Total Recoverable Nickel (µg/L)(2)	230(1)	NA	NA	230(1)	1 per Month	24-HC
(196) Interim – Total Recoverable Zinc (µg/L)(2)	NL	NA	NA	NL	1 per Month	24-HC
(196) Final – Total Recoverable Zinc (µg/L)(2)	900(1)	NA	NA	900(1)	1 per Month	24-HC
(349) Heptachlor (µg/L)	NL	NA	NA	NL	1 per 6 Months	24-HC
(500) Oil and Grease (mg/L)	15	NA	NA	20(1)	1 per Month	Grab

"NL" means no limitation is established. Monitoring and reporting, however, are required.
"NA" means not applicable
"24-HC" means 24 hour composite sample.
"1 per 6 Months" means one sample collected every calendar semiannual period in accordance with the following schedule: January 1 through June 30 to be reported on the DMR due July 10th and July 1 through December 31 to be reported on the DMR due January 10th.

(1) Limitation expressed in two significant figures.

(2) See Part I.B.1 for details regarding the compliance schedule.

b. No discharge of fly ash transport water or bottom ash transport water is permitted from this outfall. Transport water does not include low volume, short duration discharges of wastewater from minor leaks (e.g., leaks from valve packing, pipe flanges, or piping) or minor maintenance events (e.g., replacement of valves or pipe sections).

c. See Part I.C.25 regarding commencement of discharge.

d. Discharge from this outfall is prohibited when the daily flow of Outfall 003 is less than 57.28 MGD.

e. This facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with wastestreams that will be relocated to this outfall and are included in the current Registration List under Registration Number VAN040086, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia.

6. During the period beginning with the commencement of discharge from Outfall 301 and lasting until the permit's expiration, the permittee is authorized to discharge from outfall serial number 302 – Effluent from the flue gas desulfurization wastewater treatment plant (FGD WWTP).

   a. Such discharges shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		WEEKLY AVERAGE	DAILY MINIMUM	DAILY MAXIMUM		FREQUENCY	SAMPLE TYPE
(001) Flow (MGD)	NL		NA	NA	NL		1 per Day	Calculated
(002) pH (SU)	NA		NA	NL	NL		1 per Month	Grab
(004) Total Suspended Solids	30 mg/l(2)	12 Kg/d(3)	NA	NA	100 mg/l(3)	42 Kg/d(3)	1 per Week	Grab
		34 Kg/d(4)				114 Kg/d(4)		
(212) Interim - Total Recoverable Arsenic (µg/L)	NL		NA	NA	NL		1 per Month	2G/24–HC
(212) Final - Total Recoverable Arsenic (µg/L)(1)	8		NA	NA	11		1 per Week	24–HC
(235) Interim - Total Recoverable Mercury (ng/L)	NL		NA	NA	NL		1 per Month	Grab
(235) Final - Total Recoverable Mercury (ng/L)(1)	356		NA	NA	788		1 per Week	Grab
(389) Interim - Nitrate/Nitrite as N (mg/L)	NL		NA	NA	NL		1 per Month	2G/24–HC
(389) Final - Nitrate/Nitrite as N (mg/L)(1)	4.4		NA	NA	17		1 per Week	24-HC
(408) Interim - Total Recoverable Selenium (µg/L)	NL		NA	NA	NL		1 per Month	2G/24–HC
(408) Final - Total Recoverable Selenium (µg/L)(1)	12		NA	NA	23		1 per Week	24–HC
(500) Oil and Grease (mg/L)	15		NA	NA	20(2)		1 per Week	Grab

"NL" means no limitation is established. Monitoring and reporting, however, are required.
"NA" means not applicable

"24-HC" means 24 hour composite sample.
"2G/24-HC" means two flow proportioned grab samples collected with a minimum of 8 hours between the two samples within a 24 hour period.

(1) See Part I.B.2 for details regarding the compliance schedule.

(2) Limitation expressed in two significant figures.

(3) Limitation expressed in three significant figures and is applicable if combustion residual leachate is separately treated and discharged to Outfall 301.

(4) Limitation expressed in three significant figures and is applicable if combustion residual leachate from the Fossil Fuel Combustion Product (FFCP) Management Facility is directed to the FGD WWTP for treatment and discharge through Outfall 302.

7. During the period beginning with the commencement of discharge from Outfall 301 and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 303 – Effluent from Metal Cleaning Waste Treatment Basin.

   a. Such discharges shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	DAILY MINIMUM	DAILY MAXIMUM	FREQUENCY	SAMPLE TYPE
(001) Flow (MGD)	NL	NA	NA	NL	1 per Day	Calculated
(002) pH (SU)	NA	NA	NL	NL	1 per Week	Grab
(004) Total Suspended Solids (mg/L)	30(1)	NA	NA	100(2)	1 per Week	Grab
(019) Total Recoverable Copper (mg/L)	1.0	NA	NA	1.0	1 per Week	Grab
(031) Total Recoverable Iron (mg/L)	1.0	NA	NA	1.0	1 per Week	Grab
(500) Oil and Grease (mg/L)	15	NA	NA	20(1)	1 per Week	Grab

"NL" means no limitation is established. Monitoring and reporting, however, are required.
"NA" means not applicable

(1) Limitation expressed in two significant figures.

(2) Limitation expressed in three significant figures.

8. During the period beginning with the commencement of discharge from Outfall 301 and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 304 – Combustion residual leachate from the Fossil Fuel Combustion Product (FFCP) Management Facility.

   a. Such discharges shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	DAILY MINIMUM	DAILY MAXIMUM	FREQUENCY	SAMPLE TYPE
(001) Flow (MGD)	NL	NA	NA	NL	1 per Day	Calculated
(002) pH (SU)	NA	NA	NL	NL	1 per Week	Grab
(004) Interim – Total Suspended Solids (mg/L)(2)	NL	NA	NA	NL	1 per Month	Grab
(004) Final – Total Suspended Solids (mg/L)(2)	30 (1)	NA	NA	100(3)	1 per Week	Grab
(212) Interim – Total Recoverable Arsenic (µg/L)(2)	NL	NA	NA	NL	1 per Month	Grab
(212) Final – Total Recoverable Arsenic (µg/L)(2)	8	NA	NA	11	1 per Week	Grab
(235) Interim – Total Recoverable Mercury (ng/L)(2)	NL	NA	NA	NL	1 per Month	Grab
(235) Final – Total Recoverable Mercury (ng/L)(2)	356	NA	NA	788	1 per Week	Grab
(500) Interim – Oil and Grease (mg/L)(2)	NL	NA	NA	NL	1 per Month	Grab
(500) Final – Oil and Grease (mg/L)(2)	15	NA	NA	20(1)	1 per Week	Grab

"NL" means no limitation is established. Monitoring and reporting, however, are required.
"NA" means not applicable

(1) Limitation expressed in two significant figures.

(2) See Part I.B.3 for details regarding the compliance schedule.

(3) Limitation expressed in three significant figures.

9. During the period beginning with the commencement of discharge from the Coal Pile Runoff Metals Treatment System and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 305 – Coal Pile Runoff Metals Treatment System.

   a. Such discharges shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	DAILY MINIMUM	DAILY MAXIMUM	FREQUENCY	SAMPLE TYPE
(001) Flow (MGD)	NL	NA	NA	NL	1 per Day	Calculated
(004) Total Suspended Solids (mg/L)	50(1)	NA	NA	50(1)	1 per Week	Grab

"NL" means no limitation is established. Monitoring and reporting, however, are required.
"NA" means not applicable

(1) Limitation expressed in two significant figures

(2) Commencement of discharge does not include testing and commissioning of the Coal Pile Runoff Metals Treatment System. The permittee shall notify DEQ within 72 hours of the commencement of discharge of the Coal Pile Runoff Metals Treatment System.

10. During the period beginning with the permit's effective date and lasting until drawdown begins or the permit's expiration date, whichever occurs sooner, the permittee is authorized to discharge from outfall serial number 004 – LAP Effluent – Pre-Drawdown.

    a. Such discharges shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		WEEKLY AVERAGE	DAILY MINIMUM	DAILY MAXIMUM		FREQUENCY	SAMPLE TYPE
(001) Flow (MGD)	NL		NA	NA	NL		2 per Month	Calculated
(002) pH (SU)	NA		NA	6.0	9.0		2 per Month	Grab
(004) Total Suspended Solids (mg/L)	30[1]	1200 Kg/d[1,5]	NA	NA	88	3400 Kg/d[1,5]	2 per Month	Grab
(007) Dissolved Oxygen (mg/L)	NA		NA	NL	NA		1 per Month	Grab
(039) Ammonia as N (kg/d)	NA		NA	NA	235		1 per Week	Grab
(039) Interim - Ammonia as N (mg/L) [4]	13		NA	NA	19		1 per Week	Grab
(039) Final - Ammonia as N (mg/L) [4]	0.61		NA	NA	0.80		2 per Month	24-HC
(059) Total Organic Carbon (mg/L)	NA		NA	NA	110[1]		1 per Month	Grab
(193) Interim - Total Recoverable Thallium (µg/L) [4]	NL		NA	NA	NL		2 per Month	Grab
(193) Final - Total Recoverable Thallium (µg/L) [4]	0.47		NA	NA	0.47		2 per Month	Grab
(257) Total Petroleum Hydrocarbons (TPH)[3]	NA		NA	NA	NL		1 per Year	Grab
(408) Interim - Total Recoverable Selenium (µg/L) [4]	NL		NA	NA	NL		2 per Month	Grab
(408) Final - Total Recoverable Selenium (µg/L) [4]	5.9		NA	NA	7.3		2 per Month	Grab

(500) Oil and Grease (mg/L)	15	NA	NA	20[(1)]	2 per Month	Grab
(720) Interim – Chronic WET Limitation, *Ceriodaphnia dubia* (TU_c) [(2)(4)]	NA	NA	NA	50	1 per Quarter	24-HC
(720) Final - Chronic WET Limitation, *Ceriodaphnia dubia* (TU_c) [(2)(4)]	NA	NA	NA	1.36	1 per Quarter	24-HC

"NL" means no limitation is established. Monitoring and reporting, however, are required.
"NA" means not applicable
"24-HC" means 24 hour composite sample.
"1 per Quarter" means one sample taken every calendar quarter, in accordance with the following schedule: 1st Quarter (January 1 – March 31, to be reported on the Discharge Monitoring Report (DMR) due no later than April 10th); 2nd Quarter (April 1 – June 30, to be reported on the DMR due no later than July 10th); 3rd Quarter (July 1 – September 30, to be reported on the DMR due no later than October 10th); 4th Quarter (October 1 – December 31, to be reported on the DMR due no later than January 10th).
"1 per Year" means one sample taken every complete calendar year and reported as part of the DMR due no later than January 10th of the subsequent year.

(1) Limitation expressed in two significant figures.

(2) See Special Condition I.C.17.e.

(3) TPH is the sum of individual gasoline range organics and diesel range organics (or TPH-GRO and TPH-DRO) to be measured by EPA SW846 Method 8015 for gasoline and diesel range organics, or by EPA SW846 Methods 8260 Extended and 8270 Extended.

(4) See Part I.B.4 for details regarding the compliance schedule.

(5) Effective date for loading limits is November 1, 2018.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

c. This facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN040086, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia.

d. See Part I.C.24 for discharge notification requirements and a definition of drawdown.

e. There shall be no discharge of bottom ash or fly ash transport wastewaters generated at this facility on or after November 1, 2018. On or after November 1, 2018, any bottom ash or fly ash transport wastewaters generated at this facility prior to that date shall be regarded as legacy wastewaters, which may be discharged in accordance with the above respective Part I.A. subpart requirements for this outfall.

11. During the period beginning with the permit's effective date and lasting until the commencement of discharge from Outfall 301 or the permit's expiration date, whichever occurs sooner, the permittee is authorized to discharge from outfall serial number 401 – Effluent from Metal Cleaning Waste Treatment Basin.

    a. Such discharges shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	DAILY MINIMUM	DAILY MAXIMUM	FREQUENCY	SAMPLE TYPE
(001) Flow (MGD)	NL	NA	NA	NL	1 per Day	Calculated
(002) pH (SU)	NA	NA	NL	NL	1 per Week	Grab
(004) Total Suspended Solids (mg/L)	30(1)	NA	NA	100(2)	1 per Week	Grab
(019) Total Recoverable Copper (mg/L)	1.0	NA	NA	1.0	1 per Week	Grab
(031) Total Recoverable Iron (mg/L)	1.0	NA	NA	1.0	1 per Week	Grab
(500) Oil and Grease (mg/L)	15	NA	NA	20(1)	1 per Week	Grab

"NL" means no limitation is established. Monitoring and reporting, however, are required.
"NA" means not applicable

(1) Limitation expressed in two significant figures.

(2) Limitation expressed in three significant figures.

b. Upon commencement of discharge from Outfall 301, discharge from internal Outfall 401 will convert to internal Outfall 303.

12. During the period beginning with the permit's effective date and lasting until completion of the Compliance Schedule detailed in Part I.B or commencement of discharge from Outfall 301, whichever occurs sooner, the permittee is authorized to discharge from outfall serial number 402 – Effluent from the FGD WWTP.

    a. Such discharges shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		WEEKLY AVERAGE	DAILY MINIMUM	DAILY MAXIMUM		FREQUENCY	SAMPLE TYPE
(001) Flow (MGD)	NL		NA	NA	NL		1 per Day	Calculated
(002) pH (SU)	NA		NA	NL	NL		1 per Week	Grab
(004) Total Suspended Solids	30 mg/l(2)	12 Kg/d(2)	NA	NA	100 mg/l(3)	42 Kg/d(3)	1 per Week	Grab
(212) Interim - Total Recoverable Arsenic (µg/L) (1)	NL		NA	NA	NL		1 per Month	2G/24-HC
(212) Final - Total Recoverable Arsenic (µg/L)(1)	8		NA	NA	11		1 per Week	24-HC
(235) Interim - Total Recoverable Mercury (ng/L) (1)	NL		NA	NA	NL		1 per Month	Grab
(235) Final - Total Recoverable Mercury (ng/L) (1)	356		NA	NA	788		1 per Week	Grab
(389) Interim - Nitrate/Nitrite as N (mg/L) (1)	NL		NA	NA	NL		1 per Month	2G/24-HC
(389) Final - Nitrate/Nitrite as N (mg/L)(1)	4.4		NA	NA	17		1 per Week	24-HC
(408) Interim - Total Recoverable Selenium (µg/L) (1)	NL		NA	NA	NL		1 per Month	2G/24-HC
(408) Final - Total Recoverable Selenium (µg/L) (1)	12		NA	NA	23		1 per Week	24-HC
(500) Oil and Grease (mg/L)	15		NA	NA	20(2)		1 per Week	Grab

"NL" means no limitation is established. Monitoring and reporting, however, are required.
"NA" means not applicable
"24-HC" means 24 hour composite sample.
"2G/24-HC" means two flow proportioned grab samples collected with a minimum of 8 hours between the two samples within a 24 hour period.

(1) See Part I.B.2 for details regarding the compliance schedule.

(2) Limitation expressed in two significant figures.

(3) Limitation expressed in three significant figures.

b. Upon commencement of discharge from Outfall 301, discharge from internal Outfall 402 will convert to internal Outfall 302.

13. During the period beginning with the permit's effective date and lasting until drawdown begins or the permit's expiration date, whichever occurs sooner, the permittee is authorized to discharge from outfall serial number 005 – UAP Effluent – Pre-Drawdown.

    a. Such discharges shall be limited and monitored as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		WEEKLY AVERAGE	DAILY MINIMUM	DAILY MAXIMUM		FREQUENCY	SAMPLE TYPE
(001) Flow (MGD)	NL		NA	NA	NL		1 per Month	Calculated
(002) pH (SU)	NA		NA	6.0	9.0		1 per Month	Grab
(004) Total Suspended Solids	30 mg/l(1)	460 Kg/d(1)	NA	NA	100 mg/l(2)	1530 Kg/d(2)	1 per Month	Grab
(007) Dissolved Oxygen (mg/L)	NA		NA	NL	NA		1 per Month	Grab
(500) Oil and Grease (mg/L)	15		NA	NA	20 (1)		1 per Month	Grab

"NL" means no limitation is established. Monitoring and reporting, however, are required.
"NA" means not applicable

(1) Limitation expressed in two significant figures.

(2) Limitation expressed in three significant figures.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

c. This facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN040086, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia.

B. COMPLIANCE SCHEDULE

1. Outfall 301 – LVWWTS - The permittee shall achieve compliance with the final limits and monitoring requirements for Total Recoverable Copper, Chloride, Total Recoverable Nickel, and Total Recoverable Zinc at Outfall 301 as specified in Part I.A.5 in this permit, in accordance with the following schedule:

a. Submit progress reports to DEQ	**Annually, after the effective date of permit reissuance.**
b. Achieve compliance with effluent limitations	**Within 4 years of the effective date of the permit reissuance**.

In accordance with the dates identified in the above schedule of compliance, the permittee shall submit to the Piedmont Regional Office either a report of progress, or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement. Monitoring for Total Recoverable Copper, Chloride, Total Recoverable Nickel, and Total Recoverable Zinc shall commence in accordance with Part 1.A.5. Final limitations and monitoring requirements shall substitute and supersede all interim limitations and monitoring requirements delineated in Parts I.A.5.a, upon completion of the Part I.B.1.b schedule of compliance period.

2. Outfalls 302 and 402 – FGD WWTP - The permittee shall achieve compliance with the final limits and monitoring requirements for Total Recoverable Arsenic, Total Recoverable Mercury, Nitrate/Nitrite as N, and Total Recoverable Selenium at Outfalls 302 and 402 as specified in Parts I.A.6 and I.A.12 in this permit, in accordance with the following schedule:

a. Submit progress reports to DEQ	**Annually, after the effective date of permit reissuance.**
b. Achieve compliance with effluent limitations	**By March 29, 2022**.

In accordance with the dates identified in the above schedule of compliance, the permittee shall submit to the Piedmont Regional Office either a report of progress, or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement. Monitoring for Total Recoverable Arsenic, Total Recoverable Mercury, Nitrate/Nitrite as N, and Total Recoverable Selenium shall commence in accordance with Parts I.A.6 and I.A.12. Final limitations and monitoring requirements shall substitute and supersede all interim limitations and monitoring requirements delineated in Parts I.A.6.a, and I.A.12.a of this permit upon completion of the Part I.B.2.b schedule of compliance period.

3. Outfall 304 – Combustion residual leachate from FFCP Management Facility - The permittee shall achieve compliance with the final limits and monitoring requirements for Total Suspended Solids, Total Recoverable Arsenic, Total Recoverable Mercury, and Oil and Grease at Outfall 304 as specified in Part I.A.8 in this permit, in accordance with the following schedule:

a. Submit progress reports to DEQ	**Annually, after the effective date of permit reissuance.**
b. Achieve compliance with effluent limitations	**Within 4 years of the effective date of the permit reissuance**.

In accordance with the dates identified in the above schedule of compliance, the permittee shall submit to the Piedmont Regional Office either a report of progress, or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement. Monitoring for Total Suspended Solids, Total Recoverable Arsenic, Total Recoverable Mercury, and Oil and Grease shall commence in accordance with Part 1.A.8. Final limitations and monitoring requirements shall substitute and supersede all interim limitations and monitoring requirements delineated in Parts I.A.8.a, upon completion of the Part I.B.3.b schedule of compliance period.

In the event the leachate is directed to the FGD WWTP for treatment and discharge through Outfall 302 as allowed in Part I.A.6.b, this compliance schedule does not apply and the discharge shall be subject to the compliance schedule in Part I.B.2.

4. Outfall 004 – LAP Effluent Pre-Drawdown - The permittee shall achieve compliance with the final limits and monitoring requirements for Ammonia as N, Total Recoverable Thallium, Total Recoverable Selenium, and Chronic WET at Outfall 004 as specified in Part I.A.10, in accordance with the following schedule:

a. Submit progress reports to DEQ	**Annually, after the effective date of permit reissuance.**
b. Achieve compliance with effluent limitations	**Within 4 years of the effective date of the permit reissuance**.

In accordance with the dates identified in the above schedule of compliance, the permittee shall submit to the Piedmont Regional Office either a report of progress, or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement. Monitoring for Ammonia as N, Total Recoverable Thallium and Total Recoverable Selenium shall commence in accordance with Part I.A.10. Final limitations and monitoring requirements shall substitute and supersede all interim limitations and monitoring requirements delineated in Parts I.A.10.a, upon completion of the Part I.B.4.b schedule of compliance period.

C. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1. Notification Levels
The permittee shall notify the Department as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(1) One hundred micrograms per liter (100 µg/L);

(2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;

(3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or

(4) The level established by the Board.

b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(1) Five hundred micrograms per liter (500 µg/L);

(2) One milligram per liter (1 mg/L) for antimony;

(3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or

(4) The level established by the Board.

2. Nutrient Reopener
The permit may be modified or, alternatively, revoked and reissued:

a. To incorporate technology-based effluent concentration limitations for nutrients in conjunction with the installation of nutrient control technology, whether by new construction, expansion or upgrade; or

b. To incorporate alternative nutrient limitations and/or monitoring requirements, should:

(1) the State Water Control Board adopt new nutrient standards for the water body receiving the discharge, including the Chesapeake Bay or its tributaries, or

(2) a future water quality regulation or statute require new or alternative nutrient control.

3. Materials Handling/Storage
Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner and consistent with Best Management Practices, so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

4. Discharge of Chlorine in Cooling Water

a. Total residual chlorine may only be discharged from any single generating unit for more than two hours per day when the permittee demonstrates to DEQ that discharge for more than two hours is required for macroinvertebrate control. If the permittee is dechlorinating, the two hour requirement is nullified.

b. Simultaneous multi-unit chlorination is permitted.

c. Monitoring for total residual chlorine shall only be required when the permittee is chlorinating.

5. Operation and Maintenance Manual Requirement
The permittee shall maintain a current Operations and Maintenance (O&M) Manual for the treatment works that is in accordance with Virginia Pollutant Discharge Elimination System Regulations, 9VAC25-31.

The O&M Manual and subsequent revisions shall include the manual effective date and meet Part II.K.2 and Part II.K.4 Signatory Requirements of the permit. Any changes in the practices and procedures followed by the permittee shall be documented in the O&M Manual within 90 days of the effective date of the changes. The permittee shall operate the treatment works in accordance with the O&M Manual and shall make the O&M manual available to Department personnel for review during facility inspections. Within 30 days of a request by DEQ, the current O&M Manual shall be submitted to the DEQ Regional Office for review and approval.

The O&M manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

a. Permitted outfall locations and techniques to be employed in the collection, preservation, and analysis of effluent samples taken for compliance with this permit;

b. Procedures for measuring and recording the duration and volume of treated wastewater discharged;

c. Discussion of Best Management Practices, if applicable;

d. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants characterized in Part I.C.3 that will prevent these materials from reaching state waters. List type and quantity of wastes, fluids, and pollutants (e.g. chemicals) stored in bulk at this facility;

e. Discussion of treatment works design, treatment works operation, routine preventative maintenance of units within the treatment works, critical spare parts inventory and record keeping;

f. Plan for the management and/or disposal of waste solids and residues;

g. Hours of operation and staffing requirements for the plant to ensure effective operation of the treatment works and maintain permit compliance.

h. List of facility, local and state emergency contacts; and,

i. Procedures for reporting and responding to any spills/overflows/treatment works upsets.

6. Discharge of Tank Bottom Waters
There shall be no discharge of tank bottom waters from bulk fuel oil or waste oil storage facilities.

7. Groundwater Monitoring

a. Upper Ash Pond (UAP), Lower Ash Pond (LAP), and Metals Cleaning Pond:
The permittee shall continue sampling in accordance with the groundwater monitoring plan (GWMP) dated September 2001, approved by letter dated October 5, 2001, and modification approved by letter dated November 15, 2001. Any changes to the plan must be submitted for approval to the DEQ Piedmont Regional Office. The approved plan is an enforceable part of the permit. The UAP and LAP portions of the monitoring plan shall remain in effect until such time that they are superseded by a DEQ Solid Waste program-approved plan. In the event that the UAP and LAP portions of the plan are superseded by a Solid Waste program-approved plan, the Metals Pond portion of the plan, as detailed in Appendix B of the approved GWMP, shall remain in effect as an enforceable part of the VPDES permit.

b. Metals Cleaning Pond:
No later than one year following the effective date of this permit, the permittee shall submit for approval a separate GWMP and Groundwater Quality and Risk Assessment Report addressing chloride in the groundwater adjacent to the Metals Cleaning Pond. The report shall include the following:

(1) Assessment of the source of chloride.

(2) Assessment of the spatial extent and concentration of chloride in the groundwater.

(3) Identification of both human health and environmental receptors and an assessment of the risk to each receptor.

Following DEQ review and approval of the Groundwater Quality and Risk Assessment Report, a Corrective Action Plan may be required. The plan shall be due within 180 days of being notified in writing by the Department. The plan shall set forth the steps to be taken by the permittee to ensure that the contamination source is adequately addressed pursuant to the Groundwater Quality and Risk Assessment Report. Once approved, this plan shall be incorporated into the permit by reference and become an enforceable part of this permit.

8. Closure Plan for Upper Ash Pond
By letter dated April 1, 2015, the Department of Environmental Quality approved a revised closure plan for the Upper (East) Ash Pond (also known as the New Ash Pond). The approved plan consists of a Revised Phasing Plan dated April 2015, a Revised Closure Plan dated September 2003, a Revised Phasing Plan dated May 2003, and a Revised Construction Quality Assurance Plan, dated May 2003. This plan shall remain in effect and be an enforceable part of this permit until such time that it is superseded by a solid waste permit in accordance with the Commonwealth's Solid Waste program (9VAC20-81-10 et seq.). If necessary, prior to issuance of a solid waste permit, the closure plan shall be updated as needed to comply with EPA's Final Rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities.

9. Discharge of Polychlorinated Biphenyl Compounds
There shall be no discharge of polychlorinated biphenyl compounds (PCBs) such as those commonly used for transformer fluid. Compliance with this requirement will be determined using EPA Method 608.

10. Low Level PCB Sampling for Internal Outfall 301
The permittee shall monitor the effluent at Internal Outfall 301 for Polychlorinated Biphenyls (PCBs). DEQ will use these data for development (*or implementation*) of a PCB TMDL for the Lower James River. The permittee shall conduct the sampling and analysis in accordance with the requirements specified below.

At a minimum:

a. Monitoring and analysis shall be conducted in accordance with EPA Method 1668 revisions A, B, C or other revisions issued by EPA prior to final promulgation, congener specific results as specified in the DEQ PCB Point Source Monitoring Guidance (GM09-2001). It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures.

b. The permittee shall collect a minimum of 2 wet weather samples according to the PCB Point Source Guidance, Appendix C (Sample Collection Methods for Effluent and Storm Water). These samples shall be taken at Internal Outfall 301 during the term of the permit. Alternatively, samples previously collected and analyzed with Method 1668 may be used in satisfying the total number of samples required even if the collection occurred prior to the current permit term.

c. The sampling protocol shall be submitted to DEQ-Piedmont Regional Office for review and approval at least 30 days before the commencement of discharge from Outfall 301.

d. The data shall be submitted to the DEQ-Piedmont Regional Office no later than one (1) year from the commencement of discharge at Outfall 301 according to the DEQ PCB Point Source Guidance, Appendix E (Reporting Requirements for Analytical (PCB) Data Generated Using EPA Method 1668). The submittal shall include the unadjusted and appropriately quantified individual PCB congener analytical results. Additionally, laboratory and field QA/QC documentation and results should be reported. Total PCBs are to be computed as the summation of the reported, quantified congeners.

e. If the results of this monitoring indicate actual or potential exceedance of the water quality criterion or the Waste Load Allocation specified in the approved TMDL, the permittee shall submit to the DEQ-Piedmont Regional Office within 180 days of notification by DEQ for review and approval a Pollutant Minimization Plan (PMP) designed to locate and reduce sources of PCBs in the collection system. A component of the plan may include an evaluation of the PCB congener distribution in the initial source intake water to determine the net contributions of PCBs introduced to the treatment works.

11. Discharge of Debris from Trash Racks
Debris collected on the intake trash racks shall not be returned to the waterway.

12. Discharges of Uncontaminated River Water
The following discharges shall not contain any process wastewater:

a. The occasional pumping of river water from the intake screen wells to permit access for maintenance.

b. Discharges associated with the routine testing of the fire fighting system involving withdrawal and direct return of water from the river.

c. The discharge of river water from one sump pump each in the condenser cooling water intake pump rooms for Units 7 and 8.

d. Intake screen backwash.

e. Raw water make-up to the clarifier discharged prior to use.

f. Service water (untreated river water) discharged prior to use in fly ash conditioning.

13. Licensed Operator Requirement
The permittee shall employ or contract at least one Class 2 licensed wastewater works operator for the facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations for the Board for Waterworks and Wastewater Works Operators and Onsite Sewage System Professionals. The permittee shall notify the Department in writing whenever he is not complying, or has grounds for anticipating he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

14. Compliance Reporting

a. The quantification levels (QL) shall be less than or equal to the following concentrations:

Effluent Characteristic*	Quantification Level
Ammonia as N	0.20 mg/L
Chloride	10 mg/L
Nitrate/Nitrite as N	0.5 mg/L
Oil & Grease	5.0 mg/L
Total Petroleum Hydrocarbons	0.5 mg/L
Total Recoverable Antimony	5.0 µg/L
Total Recoverable Arsenic	5.0 µg/L
Total Recoverable Cadmium	1.0 µg/L
Total Recoverable Chromium III	5.0 µg/L
Dissolved Chromium VI	5.0 µg/L
Total Recoverable Copper	5.0 µg/L
Total Recoverable Iron	250 µg/L
Total Recoverable Lead	5.0 µg/L
Total Recoverable Mercury	0.1 µg/L
Total Recoverable Nickel	5.0 µg/L
Total Recoverable Selenium	5.0 µg/L
Total Recoverable Silver	0.4 µg/L
Total Recoverable Thallium	0.47 µg/L
Total Recoverable Zinc	25 µg/L
Total Residual Chlorine	0.10 mg/L
TSS	1.0 mg/L

The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained. The permittee shall use any method in accordance with Part II.A of this permit.

b. **Monthly Average:** Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis shall be treated as it is reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL used for the analysis, then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported monthly average concentration is <QL, then report "<QL" for the quantity. Otherwise use the reported concentration data (including the defined zeros) and flow data for each sample day to determine the daily quantity and report the monthly average of the calculated daily quantities.

Daily Maximum: Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the

QL listed in a. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL used for the analysis, then the maximum value of the daily averages shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported daily maximum is <QL, then report "<QL" for the quantity. Otherwise use the reported daily average concentrations (including the defined zeros) and corresponding daily flows to determine daily average quantities and report the maximum of the daily average quantities during the reporting month.

Single Datum - Any single datum required shall be reported as "<QL" if it is less than the QL used in the analysis (QL must be less than or equal to the QL listed in a. above). Otherwise the numerical value shall be reported.

c. **Significant Digits:** The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used by the permittee (i.e., 5 always rounding up or to the nearest even number), the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

15. TMDL Reopener
This permit shall be modified or alternatively revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

16. Treatment Works Closure Plan
If the permittee plans an expansion or upgrade to replace the existing treatment works, or if facilities are permanently closed, the permittee shall submit to the DEQ Regional Office a closure plan for the existing treatment works. The plan shall address the following information as a minimum: Verification of elimination of sources and/or alternate treatment scheme; treatment, removal and final disposition of residual wastewater and solids; removal/demolition/disposal of structures, equipment, piping and appurtenances; site grading, and erosion and sediment control; restoration of site vegetation; access control; fill materials; and proposed land use (post-closure) of the site. The plan should contain proposed dates for beginning and completion of the work. The plan must be approved by the DEQ prior to implementation. Once approved, the plan shall become an enforceable part of this permit and closure shall be implemented in accordance with the approved plan. No later than 14 calendar days following closure completion, the permittee shall submit to the DEQ Piedmont Regional Office written notification of the closure completion date and a certification of closure in accordance with the approved plan.

The LAP and UAP closures are excluded from the requirements of this special condition as they will be closed in accordance with solid waste regulations. The temporary dewatering treatment system (CSWTS) discussed in Part I.C.21 is also excluded from the requirements of this special condition.

17. Whole Effluent Toxicity (WET) Testing Program

a. Outfalls 001 and 002:

(1) In accordance with the schedule in I.C.17.g(1) below, the permittee shall perform acute and chronic annual toxicity testing on Outfalls 001 and 002 using 24 hour flow-proportioned composite samples for the duration of the permit.

The acute test to use is:

48 Hour Static Acute test using *Ceriodaphnia dubia*

These acute tests shall be conducted using 5 geometric dilutions of effluent with a minimum of 4 replicates, with 5 organisms in each. The NOAEC (No Observed Adverse Effect Concentration), as determined by hypothesis testing, shall be reported. The LC_{50} should

also be determined and noted on the submitted report. Tests in which the control survival is less than 90% are not acceptable.

The chronic test to use is:

Chronic 3-Brood Survival and Reproduction Static Renewal Test using *Ceriodaphnia dubia*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction. Results which cannot be quantified (i.e., a “less than” NOEC value are not acceptable, and a retest will have to be performed. A retest of a non-acceptable test must be performed during the same compliance period as the test it is replacing. Express the test NOEC as TU_c (Chronic Toxicity Units), by dividing 100/NOEC. The LC_{50} at 48 hours and the IC_{25} shall also be reported.

The permittee may provide additional samples to address data variability; these data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

(2) The test dilutions shall be able to determine compliance with the following endpoints:

(a) Acute tests:

Outfall 001 NOAEC = 100% effluent
Outfall 002 NOAEC = 100% effluent

(b) Chronic tests:

Outfall 001 NOEC $\geq$ 35% effluent equivalent to a TU_c of $\leq$2.85
Outfall 002 NOEC $\geq$ 35% effluent equivalent to a TU_c of $\leq$2.85

(3) The test data for each outfall will be evaluated statistically by DEQ for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should DEQ evaluation of the data indicate that a limit is needed, the permit may be modified or, alternatively, revoked and reissued to include a WET limit and compliance schedule for that outfall. Following written notification from DEQ of the need for including a WET limitation, the toxicity tests of Part I.C.17.a(1) for that outfall may be discontinued.

(4) The permit may be modified or revoked and reissued to include pollutant specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limits must control the toxicity of the effluent.

b. Outfall 101 – UAP and LAP Effluent – Closure – Acute and Chronic WET Limit Testing:

(1) The Whole Effluent Toxicity limitations of Part I.A.2 become effective upon commencement of closure activities as defined in Part I.C.24. The permittee shall conduct monthly tests using a composite sample comprised of hourly grabs for the period of discharge, not to exceed 24 hours. WET testing of Outfall 101 shall begin during the first full month following the initiation of discharge.

(2) WET Limits

(a) Acute tests: NOAEC = 100%.

(b) Chronic tests: NOEC $\geq$ 35% effluent, equivalent to a TU_c of $\leq$2.85.

(3) The acute tests to use are:

48 Hour Static Acute test using *Ceriodaphnia dubia*

48-Hour Static Acute test using *Pimephales promelas*

These single dilution acute tests are to be conducted using a minimum of 4 replicates, with 5 organisms each, for the control and 100% effluent. The NOAEC (No Observed Adverse

Effect Concentration) shall be reported as either =100% or <100% (less than 100%). The effluent will be in compliance if the survival of the test organisms in both the control and 100% effluent exposures equals or exceeds 90%. If the survival in the effluent is less than 90% and this value is significantly different from the control survival, as determined by hypothesis testing, the NOAEC is less than 100% and the effluent is not in compliance. Tests in which control survival is less than 90% are not acceptable. A retest of a non-acceptable test must be performed during the same compliance period as the .test it is replacing. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40CFR 136.3.

The chronic tests to use are:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*

Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction or growth. The test endpoint (limit) must be represented by a dilution, and should be bracketed by at least one dilution above and one dilution below it. Results which cannot be determined (i.e., a “less than” NOEC value) are not acceptable, and a retest will have to be performed. A retest of a non-acceptable test must be performed during the same compliance period as the test it is replacing. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for DMR reporting. The 48 hour LC_{50} and IC_{25} should be included on the submitted test reports.

(4) One copy of each toxicity test report shall be submitted to the Piedmont Regional Office in accordance with the reporting schedule in Part I.C.17.g(4) below. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

(5) The permit may be modified or revoked and reissued to include pollutant specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limits must control the toxicity of the effluent.

(6) Frequency of Testing

Monthly testing is required as indicated in Part I.A.2 of this permit, beginning upon commencement of closure activities as defined in Part I.C.24.

c. Outfall 003 – Pre-Outfall 301 Discharge:

(1) In accordance with the schedule in Part I.C.17.g(1) below, the permittee shall perform annual acute and chronic toxicity tests of final effluent at Outfall 003 – Pre-Outfall 301 Discharge using 24 hour flow-proportioned composite samples for the duration of the permit.

The acute tests shall be:

48 Hour Static Acute test using *Ceriodaphnia dubia*

48 Hour Static Acute test using *Pimephales promelas*

These acute tests shall be conducted using 5 geometric dilutions of effluent with a minimum of 4 replicates, with 5 organisms in each. The NOAEC (No Observed Adverse Effect Concentration), as determined by hypothesis testing, shall be reported. The LC_{50} should also be determined and noted on the submitted report. Tests in which the control survival is less than 90% are not acceptable.

The chronic tests shall be:

Chronic 3-Brood Survival and Reproduction Static Renewal Test using *Ceriodaphnia dubia*

Chronic 7-day Survival and Growth Static Renewal test using *Pimephales promelas*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction. Results which cannot be quantified (i.e., a “less than” NOEC value) are not acceptable, and a retest will have to be performed. A retest of a non-acceptable test must be performed during the same compliance period as the test it is replacing. Express the test NOEC as TU_c (Chronic Toxicity Units), by dividing 100/NOEC. The LC_{50} at 48 hours and the IC_{25} shall also be reported.

(2) The test dilutions shall be able to determine compliance with the following endpoints:

(a) Acute tests: NOAEC = 100% effluent

(b) Chronic tests: NOEC $\geq$ 69% effluent equivalent to a TU_c of $\leq$1.44

(3) The permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40CFR 136.3.

(4) The test data for each outfall will be evaluated statistically by DEQ for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should DEQ evaluation of the data indicate that a limit is needed, the permit may be modified or, alternatively, revoked and reissued to include a WET limit and compliance schedule for that outfall. Following written notification from DEQ of the need for including a WET limitation, the toxicity tests of Part I.C.17.c(1) for that outfall may be discontinued.

(5) The permit may be modified or revoked and reissued to include pollutant specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limits must control the toxicity of the effluent.

If evaluation of the data indicates that a limitation is not needed, annual acute and chronic testing shall commence in accordance with the remaining schedule in I.C.17.g(1) below.

d. Outfall 003 – Outfall 301 Discharge:
Final WET testing requirements for Outfall 003 (Outfall 301 Discharge) shall become effective upon commencement of discharge from Outfall 301. The WET testing shall be conducted as described above in Part I.C.17.c except that the testing shall be conducted in accordance with the schedule in Part I.C.17.g(2) below.

e. Outfall 004 – Pre-Drawdown - Chronic WET Limit Testing:

(1) The quarterly chronic tests required in Part I.A.10 of this permit to meet the interim limit of a TU_c of $\leq$50 and final limit of an NOEC ≥ 73%, equivalent to TU_c of $\leq$1.36 shall be:

Chronic 3-Brood Static Renewal Survival and Reproduction Tests using *Ceriodaphnia dubia*

These tests shall be conducted, using 24 hour flow-proportioned composite samples, in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction. The test endpoint (limit) shall be represented by a dilution, and at least one dilution above and one dilution below it. Results which cannot be determined (i.e., a “less than” NOEC value) are not acceptable, and a retest shall be performed. A retest of a non-acceptable test must be performed during the same compliance period as the test it is replacing. For reporting on the DMR, the NOEC is to be expressed in Chronic Toxicity Units (TU_C), which is obtained by dividing 100 by the test NOEC. The LC_{50} at 48 hours and the IC_{25} shall also be reported.

(2) One copy of each toxicity test report shall be submitted to the Piedmont Regional Office in accordance with the reporting schedule in Part I.C.17.g(3) below. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

(3) The permit may be modified or revoked and reissued to include pollutant specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limits must control the toxicity of the effluent.

(4) Upon the commencement of discharge from the LAP to Outfall 101, WET testing at Outfall 004 may be discontinued.

f. Outfall 005 – Pre-Drawdown – Acute and Chronic WET Testing:

(1) In accordance with the schedule in Part I.C.17.g(1) below, the permittee shall perform annual acute and chronic toxicity tests of final effluent at Outfall 005 – Pre-Drawdown. Grab samples shall be taken for this discharge during Pre-Drawdown activities. Chronic tests are required only if discharge occurs over five consecutive days. The permittee shall maintain a record of the dates that a discharge occurs at Outfall 005 and provide it to the Department upon request.

The acute tests shall be:

48 Hour Static Acute test using *Ceriodaphnia dubia*

48 Hour Static Acute test using *Pimephales promelas*

These acute tests shall be conducted using 5 geometric dilutions of effluent with a minimum of 4 replicates, with 5 organisms in each. The NOAEC (No Observed Adverse Effect Concentration), as determined by hypothesis testing, shall be reported. The LC_{50} should also be determined and noted on the submitted report. Tests in which the control survival is less than 90% are not acceptable.

The chronic tests shall be:

Chronic 3-Brood Survival and Reproduction Static Renewal Test using *Ceriodaphnia dubia*

Chronic 7-day Survival and Growth Static Renewal test using *Pimephales promelas*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction or growth. The LC_{50} at 48 hours and the IC_{25} shall also be reported. Results which cannot be quantified (i.e., a “less than” NOEC value) are not acceptable, and a retest shall be performed. The retest of a nonacceptable test shall be performed during the same compliance period as the test it is replacing. Express the test LC_{50} as TU_a (Acute Toxicity Units), by dividing $100/LC_{50}$. Express the test NOEC as TU_c (Chronic Toxicity Units), by dividing 100/NOEC. The LC_{50} at 48 hours and the IC_{25} shall also be reported.

(2) The test dilutions shall be able to determine compliance with the following endpoints:

(a) Acute tests: NOAEC = 100%.

(b) Chronic tests: NOEC $\geq$ 35% effluent, equivalent to a TU_c of ≤2.85.

(3) The permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40CFR 136.3

(4) The test data will be evaluated statistically by DEQ for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should DEQ evaluation of the data indicate that a limit is needed, the permit may be modified or, alternatively, revoked and reissued to include a WET limit and compliance schedule. Following written notification from DEQ of the need for including a WET limitation, the toxicity tests of Part I.C.17.f(1) may be discontinued.

(5) The permit may be modified or revoked and reissued to include pollutant specific limits should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limits must control the toxicity of the effluent.

If evaluation of the data indicates that a limitation is not needed, annual acute and chronic testing shall commence in accordance with the remaining schedule in Part I.C.17.g(1) below.

g. Reporting Schedule:

(1) The permittee shall report the results of the toxicity testing on Outfalls 001, 002, 003 - Pre-LVWWTS Discharge, and 005 – Pre-Drawdown as appropriate, and supply to the Piedmont Regional Office one copy of each of the toxicity test reports specified in this WET Monitoring Program. The compliance period in which each test shall be performed is established as annual (consecutive 12 months) periods based on the effective date of the permit. Reports shall be submitted no later than the 10th of the month following the end of each compliance period.

Compliance Period	Monitoring Period	Report Due
1st Annual	October 1, 2016 - September 30, 2017	October 10, 2017
2nd Annual	October 1, 2017- September 30, 2018	October 10, 2018
3rd Annual	October 1, 2018- September 30, 2019	October 10, 2019
4th Annual	October 1, 2019- September 30, 2020	October 10, 2020

(2) WET testing for Outfall 003 - LVWWTS Discharge shall begin upon the commencement of discharge from the LVWWTS in accordance with the schedule below. The permittee shall report the results of the toxicity testing on Outfalls 003 - LVWWTS Discharge, and supply to the Piedmont Regional Office one copy of each of the toxicity test reports specified in this WET Monitoring Program. The compliance period in which each test shall be performed is established as calendar quarters for the first 10 quarters. Reports shall be submitted no later than the 10th of the month following the end of each compliance period.

Compliance Period	Monitoring Period	Report Due
1st Quarterly	October 1 – December 31, 2016	January 10, 2017
2nd Quarterly	January 1 – March 31, 2017	April 10, 2017
3rd Quarterly	April 1 – June 30, 2017	July 10, 2017
4th Quarterly	July 1 – September 30, 2017	October 10, 2017
5th Quarterly	October 1 – December 31, 2017	January 10, 2018
6th Quarterly	January 1 – March 31, 2018	April 10, 2018
7th Quarterly	April 1 – June 30, 2018	July 10, 2018
8th Quarterly	July 1 – September 30, 2018	October 10, 2018
9th Quarterly	October 1 – December 31, 2018	January 10, 2019
10th Quarterly	January 1 – March 31, 2019	April 10, 2019
1st Annual	April 1, 2019 – March 31, 2020	April 10, 2020
2nd Annual	April 1, 2020 – March 31, 2021	April 10, 2021

(3) Reporting for the Outfall 004 – Pre-Drawdown WET limitations shall be conducted quarterly and reported on the DMR as required in Part I.A.10 of this permit. One copy of the toxicity test report associated with each test, shall be submitted in hard copy or by email concurrent with the DMR on which the test result is reported.

(4) Reporting for the Outfall 101 WET limitations shall be conducted monthly and reported on the DMR as required in Part I.A.2 of this permit. Monthly monitoring will continue until dewatering activities associated with closure activities are completed. One copy of the

toxicity test report associated with each test, shall be submitted in hard copy or by email concurrent with the DMR on which the test result is reported.

18. Oil Storage Groundwater Monitoring Reopener
As this facility currently manages ground water in the bulk fuel oil storage area in accordance with 9 VAC 25-91-10 et seq., Facility and Aboveground Storage Tank (AST) Regulation, this permit does not presently impose ground water monitoring requirements in that storage area. However, this permit may be modified, or alternatively, revoked and reissued to include ground water monitoring not required by the AST regulation.

19. Water Quality Criteria Reopener
Should effluent monitoring indicate the need for any water quality-based limitations, this permit may be modified or alternatively revoked and reissued to incorporate appropriate limitations. In addition, this permit may be modified, or alternatively, revoked and reissued to incorporate appropriate temperature limitations if the Virginia Water Quality Standards are revised to include numeric standards addressing human health.

20. CER
Prior to constructing any wastewater treatment works, the permittee shall submit a Concept Engineering Report (CER) to the DEQ Piedmont Regional Office. DEQ written approval shall be secured prior to constructing any wastewater treatment works. The permittee shall construct the wastewater treatment works in accordance with the approved CER. No later than 14 days following completion of construction of any project for which a CER has been approved, written notification shall be submitted to the DEQ Piedmont Regional Office certifying that, based on an inspection of the project, construction was completed in accordance with the approved CER. The written notification shall be certified by a professional engineer licensed in the Commonwealth of Virginia or signed in accordance with Part II.K of this permit. The installed wastewater treatment works shall be operated to achieve design treatment and effluent concentrations. Approval by the Department of Environmental Quality does not relieve the owner of the responsibility for the correction of design and/or operational deficiencies. Noncompliance with the CER shall be deemed a violation of this permit.

Upon approval of a CER for the installation of nutrient removal technology, DEQ staff shall initiate modification, or alternatively, revocation and reissuance, of this permit to include annual concentration limits based on the technology proposed in the CER. Upon completion of construction in accordance with a CER that has been approved by the DEQ Piedmont Regional Office, any nutrient removal facilities installed shall be operated to achieve design effluent Total Nitrogen and Total Phosphorus concentrations.

21. Treatment Requirements for the Lower and Upper Ash Pond Closure Discharge
Commencing with the use of mechanical methods to drawdown surface water from the Lower Ash Pond and the Upper Ash Pond sediment basin for the purposes of closure, all water from the decanting/dewatering process shall be treated prior to discharge. Treated wastewater that exceeds one or more of the following trigger concentrations, as determined by inline process sampling, shall be routed through enhanced treatment prior to discharge:

Parameter:	Enhanced Treatment Trigger (ug/L):
Arsenic	100
Selenium	5.0
Lead	7.4
Copper	6.0
Antimony	640
Thallium	0.47

Enhanced treatment of the wastewater shall be maintained until inline process sampling indicates that all pollutant concentrations are below the enhanced treatment triggers.

Inline process sampling shall be collected at a minimum every 4 hours at an in-process point immediately prior to the enhanced treatment module(s), and analytical results shall be returned

within approximately one hour after collection. This sampling is in addition to the effluent compliance monitoring required by this permit. The permittee shall maintain a log with the inline process sampling results and the times that enhanced treatment begins and ends. The log shall be available to DEQ upon request.

In addition to the DMR, the permittee shall submit a monthly summary report of the treated decanting/dewatering discharge no later than the 10th day of the month after monitoring takes place. The summary report shall contain the dates and times that enhanced treatment was turned on and off.

22. Outfall 301 - Water Quality Criteria Monitoring
The permittee shall monitor the effluent at internal Outfall 301 for the substances noted in Attachment A, "Water Quality Criteria Monitoring" according to the indicated analysis number, quantification level, sample type and frequency. Using Attachment A as the reporting form, the data shall be submitted no later than 90 days following the commencement of discharge from Outfall 301. Monitoring and analysis shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved methods. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. The DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

23. Ash Pond Closure Stormwater Management
Best management practices (BMPs), structural and/or non-structural, shall be utilized by the permittee to minimize the impact of ash pond closure activities on industrial stormwater quality. Ash pond closure activities may include, but are not limited to the process of ash movement for off-site disposal, ash loading and unloading areas, any area(s) associated with the storage of ash prior to transport off-site, and vehicle tracking associated with the movement of ash.

The facility shall maintain a Stormwater Pollution Prevention Plan (SWPPP), required as part of Industrial Stormwater Permit General Permit No. VAR051023, that includes a description of the BMPs being implemented and a regular schedule for preventive maintenance of all BMPs where appropriate. All structural BMPs identified in the SWPPP shall be maintained in effective operating condition and shall be inspected for structural integrity and operational efficiency once per week during ash pond closure activities. Results of the weekly inspections and actions needed and performed in response to the weekly inspections shall be maintained with the SWPPP.

Nothing in this condition shall relieve the permittee from the responsibility for obtaining applicable permits for land disturbing activities, or permit coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities.

24. Ash Pond Closure Discharge
The permittee shall notify the DEQ Piedmont Regional Office at least 72 hours prior to the planned commencement of the discharge of drawdown water in the Upper or Lower Ash Ponds in preparation for pond closure. A second notification to the DEQ Piedmont Regional Office shall be provided within 24 hours after initiating the discharge of drawdown water from the Upper or Lower Ash Ponds. Closure activities as addressed in this permit shall begin with the commencement of drawdown of the Lower or Upper Ash Ponds, whichever occurs first and conclude with the completion of dewatering. Drawdown shall be defined as the intentional lowering of the pond elevation below 2 feet 2 inches from the top of the concrete outfall structure for Outfall 004 and 15 feet 6 inches from the top of the concrete outfall structure for Outfall 005.

25. Notification of Commencement of Discharge
No later than 10 days prior to the commencement of discharge from Outfall 301, the permittee shall submit written notification to DEQ which provides the first day of discharge. This first day of discharge will be used as the trigger date for all other permit conditions which drive off the commencement of discharge.

26. Cease Discharge Requirements for Outfall 101 – UAP and LAP Effluent - Closure
The permittee shall maintain agreement(s) with its contracted lab(s) requiring that results be reported no later than 48 hours following the result determination and/or 48 hours following a Whole Effluent Toxicity test termination. The permittee shall immediately cease the discharge of the outfall upon receipt of results in exceedance of permit limitations and shall promptly notify DEQ, in no case later than 24 hours, after being informed of the exceedance. The DEQ notification shall include the laboratory notification to the permittee indicating the parameter exceedance, and date and time of notification to the permittee. Should an exceedance occur, the permittee shall initiate a review of the treatment operations and data to identify the cause(s) of the exceedance and initiate appropriate corrective action(s). Resumption of the discharge shall not occur until such time as an evaluation report is provided to DEQ and written authorization to resume the discharge is granted by DEQ.

27. Pond Closure Drawdown Rate
The drawdown rate of any pond or basin shall not exceed 2 foot per day to maintain the integrity of the dams, unless approved by the Department of Conservation and Recreation Dam Safety Program.

28. Process Wastewater Conveyance Investigation
No later than 180 days following the effective date of this permit, the permittee shall submit to the DEQ Piedmont Regional Office an approvable plan for a comprehensive facility-wide process wastewater conveyance investigation. The investigation shall address all process wastewater conveyances to identify potential and actual cross connections, unknown infrastructure, bypasses, and inflow or exfiltration that could result in an illicit or unauthorized discharge. Such investigation requirements may be satisfied by video camera, visual inspection, dye testing or other methods as reasonable and appropriate. The plan shall prioritize the projects according to risk potential and present a schedule, not to exceed 2 years from DEQ written approval of the plan, to complete the investigation and submit a final report summarizing the findings. The permittee shall notify the DEQ no later than 24 hours following discovery of any potential or actual illicit or unauthorized discharge and submit a written plan and schedule to the DEQ Piedmont Regional Office for necessary repair, replacement or corrective action activities no later than 30 days following discovery.

29. §316(a) Alternate Effluent Limitations
The permittee shall no later than 90 days following this permit reissuance submit a general description of the type of data, studies, experiments, and other information which the permittee intends to submit for the update of the §316(a) demonstration.

The permittee shall, by no later than 180 days following this permit reissuance, submit for approval to DEQ a detailed plan for the permittee to update the studies to support renewal of its §316(a) demonstration.

The detailed plan shall specify the nature and extent of the following information to be updated: biological, hydrographical and meteorological data; physical monitoring data; engineering or diffusion models; laboratory studies; representative important species; and other relevant information. In selecting representative important species, special consideration shall be given to state- and federally-listed threatened or endangered species found in the immediate vicinity of the discharge outfalls.

Alternatively, the permittee may base renewal of their demonstration upon the absence of prior appreciable harm in lieu of predictive studies. Any such demonstrations shall show:

a. That no appreciable harm has resulted from the normal component of the discharge (taking into accouint the interaction of such thermal component with other pollutants and the additive effect of other thermal sources to a balanced, indigenous community of shellfish, fish and wildlife in and on the body of water into which the discharge has been made, or
b. That despite the occurrence of such previous harm, the alternative effluent limitations will nevertheless assure the protection and propagation of a balanced, indigenous community of shellfish, fish and wildlife in and on the body of water into which the discharge is made.

In determining whether or not prior appreciable harm has occurred, the Director shall consider the length of time in which the applicant has been discharging and the nature of the discharge.

The permittee may provide any additional information or studies which the permittee feels are appropriate to support renewal of their demonstration. Once approved by the DEQ, the plan shall become an enforceable provision of this permit. Results of the updated studies or demonstration shall be submitted to the DEQ Piedmont Regional Office by no later than 270 days prior to expiration of this permit.

D. §316(b) PHASE II CONDITIONS

1. Interim §316(b) Best Technology Available (BTA)
The permittee shall implement interim Best Technology Available (BTA) measures to minimize impingement and entrainment (I&E) mortality and adverse impacts. Each operating cooling water intake structure (CWIS) shall utilize a curtain wall, traveling screens, spray wash systems and debris return.

2. Impingement and Entrainment Control Technology Preventative Maintenance

The Operations and Maintenance (O&M) Manual for the permitted facility shall include a description of procedures and a regular schedule for preventative maintenance of all I&E control technologies and measures. In addition, the O&M Manual shall include a description of mitigation protocols and practices to implement should a water withdrawal event occur while an I&E technology or measure is off-line. The O&M Manual shall be updated to incorporate the information required by this condition by no later than 90 days following the effective date of this permit. All I&E control technologies and measures shall be maintained in effective operating condition. The permittee shall maintain documentation of maintenance and repairs of I&E control technologies and measures, including, but not limited to: the date(s) of regular maintenance, date(s) of discovery of areas in need of repair or replacement, date(s) for repairs, and date(s) the control technologies returned to full function.

3. Alternate Schedule for Submittal of 40 CFR §122.21(r) Information
The permittee shall, by no later than 270 days prior to the expiration date of this permit, submit to the DEQ Regional Office all applicable information described in 40CFR §122.21(r).

4. Monitoring Requirements
The permittee shall conduct visual inspections or employ remote monitoring devices during the period any cooling water intake structure is in operation. Inspections shall be conducted no less frequently than weekly to ensure that any technologies operated to comply with impingement mortality and entrainment requirements, any additional measures necessary to protect listed threatened and endangered species and designated critical habitat, and other standards for minimizing adverse environmental impact as established in this permit, are maintained and operated to function as designed.

Inspection documentation shall include at a minimum:

a. Date, time, and location of the inspection or remote monitoring period;

b. The name(s) and signature(s) of the inspector(s);

c. A description of water withdrawal volumes or rates occurring at the time of the inspection;

d. Where available, head loss across the intake screen(s);

e. If adverse weather conditions exist, a description of the adverse weather conditions;

f. Any technologies needing maintenance, repair, or replacement.

The requirement to conduct visual or remote inspections is waived when no water is withdrawn through all cooling water intake structures during an entire inspection period. For each cooling water intake structure, the permittee shall document the date(s) when no water is withdrawn through the respective intake structure.

When adverse weather conditions prevent visual inspections or remote monitoring from being safely conducted during a given inspection period, the visual inspection or remote monitoring requirements may be waived provided the permittee prepares documentation explaining the reasons why a visual inspection or remote monitoring could not be safely conducted. Adverse weather conditions are those that are dangerous or create inaccessibility for personnel, and may include such events as local flooding, high winds, electrical storms, or situations that otherwise make an inspection impracticable, such as drought or extended frozen conditions.

Any deficiencies found during a visual inspection or remote monitoring event shall be corrected as soon as possible, but no later than 30 days following discovery, unless permission for a later date is granted by DEQ in writing.

All documentation relating to visual inspections or remote monitoring, or the inability to safely conduct such monitoring due to adverse weather conditions, shall be signed and certified in accordance with Part II.K of this permit and shall be made available to DEQ personnel for review during facility inspections or no later than 30 days following receipt of a request by DEQ.

5. Annual Certification Statement Requirements
The permittee shall annually prepare a written statement certifying either: a) operations of any unit at the permitted facility that impacts cooling water withdrawals or operation of any cooling water intake structure have been substantially modified, or b) no substantial changes have occurred in the operations of any unit at the permitted facility that impacts cooling water withdrawals or operation of any cooling water intake structure.

If substantially modified operations have occurred, the permittee must provide with the annual certification statement a summary of those changes. In addition, the permittee must submit revisions to the information required at 40 CFR §122.21(r) with the next application for reissuance of this permit.

Certification statements shall be signed in accordance with Part II.K of this permit and submitted to the DEQ Piedmont Regional Office by no later than each February 10 for the period covering the preceding calendar year.

6. Measures to protect Federally-listed Threatened or Endangered (T&E) species, designated critical habitat, and fragile species or shellfish

The permittee shall operate each cooling water intake structure and cooling system in a manner designed to minimize incidental take, reduce or remove more than minor detrimental effects to Federally-listed threatened, endangered, or fragile species and designated critical habitat, including prey base.

The permittee shall prepare, on a calendar year basis, a report providing an assessment of the efficiency/effectiveness of the facility's control measures. The report shall include a compilation of all federally-listed threatened or endangered species found to have been taken by a cooling water intake structure during the reporting year. For each federally-listed species taken, the report shall include the following data at a minimum:

- Species name (to include both the Latin and common name);
- Federal listed status (e.g., threatened, endangered, or other);
- Total number of organisms taken by life stage cycle (egg, larva, juvenile, adult);
- Method of take (impingement, entrainment, or other);
- Results of the take (death, injury, or other); and
- The take estimated by the federal Fishery Services when a federal incidental take authorization was granted.

The assessments and compiled data shall be submitted to the DEQ-Regional Office by no later than each February 10 for the preceding calendar year.

7. Federal Endangered Species Act Compliance
Nothing in this permit authorizes take for the purposes of a facility's compliance with the Endangered Species Act.

Part II. CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements required by this permit shall be taken at the permit designated or approved location and be representative of the monitored activity.

   a. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.

   b. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

   c. Samples taken shall be analyzed by a laboratory certified under 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

2. Any pollutant specifically addressed by this permit that is sampled or measured at the permit designated or approved location more frequently than required by this permit shall meet the requirements in A 1 a through c above and the results of this monitoring shall be included in the calculations and reporting required by this permit.

3. Operational or process control samples or measurements shall not be taken at the designated permit sampling or measurement locations. Operational or process control samples or measurements do not need to follow procedures approved under Title 40 Code of Federal Regulations Part 136 or be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records

1. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;

   b. The individual(s) who performed the sampling or measurements;

   c. The date(s) and time(s) analyses were performed;

   d. The individual(s) who performed the analyses;

   e. The analytical techniques or methods used; and

   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, Virginia 23060-6296

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved, or specified by the Department.

3. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or

2. Otherwise alter the physical, chemical, or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II.F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;

2. The cause of the discharge;

3. The date on which the discharge occurred;

4. The length of time that the discharge continued;

5. The volume of the discharge;

6. If the discharge is continuing, how long it is expected to continue;

7. If the discharge is continuing, what the expected total volume of the discharge will be; and

8. Any steps planned or taken to reduce, eliminate, and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed.

The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.
2. A written report shall be submitted within 5 days and shall contain:
   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.
3. The permittee shall report all instances of noncompliance not reported under Parts II.I.1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II.G, H, and I may be made to the Department's Regional Office at (804) 527-5020 (voice), (804) 527-5106 (fax) or online (http://www.deq.virginia.gov/Programs/PollutionResponsePreparedness/MakingaReport.aspx**). For reports outside normal working hours (before 8:30 am and after 5:00 pm Monday through Friday and anytime Saturday through Sunday), leave a message and this shall fulfill the immediate reporting requirement.**

For emergencies, the Virginia Department of Emergency Services maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

      (1) After promulgation of standards of performance under Section 306 of the Clean Water Act which are applicable to such source; or

      (2) After proposal of standards of performance in accordance with Section 306 of the Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. Applications. All permit applications shall be signed as follows:

   a. For a corporation: By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

   b. For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

   c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits and other information requested by the Board shall be signed by a person described in Part II.K.1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part II.K.1;

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II.K.2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II.K.1 or 2 shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any

other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U), and "upset" (Part II.V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges

Solids, sludges, or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II.U.2 and U.3.

2. Notice

   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.

   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.

3. Prohibition of bypass

   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:

(1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required under Part II.U.2.

b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   a. An upset occurred and that the permittee can identify the cause(s) of the upset;

   b. The permitted facility was at the time being properly operated;

   c. The permittee submitted notice of the upset as required in Part II.I; and

   d. The permittee complied with any remedial measures required under Part II.S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II.Y.1, this permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;

   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

ATTACHMENT A for Outfall 301
DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY CRITERIA MONITORING

Effective January 1, 2012, all analyses shall be in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

A listing of Virginia Environmental Laboratory Accreditation Program (VELAP) certified and/or accredited laboratories can be found at the following website:
http://www.dgs.state.va.us/DivisionofConsolidatedLaboratoryServices/Services/EnvironmentalLaboratoryCertification/tabid/1059/Default.aspx

Please be advised that additional water quality analyses may be necessary and/or required for permitting purposes.

CASRN	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL(1)	REPORTING RESULTS(2)	SAMPLE TYPE(3)	SAMPLE FREQUENCY
METALS						
7440-36-0	Antimony, dissolved	(4)	1.4		G or C	1/5 YR
7440-38-2	Arsenic, dissolved	(4)	1.0		G or C	1/5 YR
7440-43-9	Cadmium, dissolved	(4)	0.3		G or C	1/5 YR
16065-83-1	Chromium III, dissolved (7)	(4)	3.6		G or C	1/5 YR
18540-29-9	Chromium VI, dissolved (7)	(4)	1.6		G or C	1/5 YR
7440-50-8	Copper, dissolved	(4)	0.50		G or C	1/5 YR
7439-92-1	Lead, dissolved	(4)	0.50		G or C	1/5 YR
7439-97-6	Mercury, dissolved	(4)	1.0		G or C	1/5 YR
7440-02-0	Nickel, dissolved	(4)	0.94		G or C	1/5 YR
7782-49-2	Selenium, Total Recoverable	(4)	2.0		G or C	1/5 YR (FW)
7440-22-4	Silver, dissolved	(4)	0.20		G or C	1/5 YR
7440-28-0	Thallium, dissolved	(4)	(5)		G or C	1/5 YR
7440-66-6	Zinc, dissolved	(4)	3.6		G or C	1/5 YR
PESTICIDES/PCBs						
309-00-2	Aldrin	608/625	0.05		G or C	1/5 YR
57-74-9	Chlordane	608/625	0.2		G or C	1/5 YR
2921-88-2	Chlorpyrifos (synonym = Dursban)	622	(5)		G or C	1/5 YR
72-54-8	DDD	608/625	0.1		G or C	1/5 YR
72-55-9	DDE	608/625	0.1		G or C	1/5 YR
50-29-3	DDT	608/625	0.1		G or C	1/5 YR
8065-48-3	Demeton (synonym = Dementon-O,S)	622	(5)		G or C	1/5 YR
333-41-5	Diazinon	622	(5)		G or C	1/5 YR
60-57-1	Dieldrin	608/625	0.1		G or C	1/5 YR

CASRN	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS[2]	SAMPLE TYPE[3]	SAMPLE FREQUENCY
959-98-8	Alpha-Endosulfan (synonym = Endosulfan I)	608/625	0.1		G or C	1/5 YR
33213-65-9	Beta-Endosulfan (synonym = Endosulfan II)	608/625	0.1		G or C	1/5 YR
1031-07-8	Endosulfan Sulfate	608/625	0.1		G or C	1/5 YR
72-20-8	Endrin	608/625	0.1		G or C	1/5 YR
7421-93-4	Endrin Aldehyde	608/625	(5)		G or C	1/5 YR
86-50-0	Guthion (synonym = Azinphos Methyl)	622	(5)		G or C	1/5 YR
76-44-8	Heptachlor	608/625	0.05		G or C	1/5 YR
1024-57-3	Heptachlor Epoxide	608/625	(5)		G or C	1/5 YR
319-84-6	Hexachlorocyclohexane Alpha-BHC	608/625	(5)		G or C	1/5 YR
319-85-7	Hexachlorocyclohexane Beta-BHC	608/625	(5)		G or C	1/5 YR
58-89-9	Hexachlorocyclohexane Gamma-BHC (syn. = Lindane)	608/625	(5)		G or C	1/5 YR
143-50-0	Kepone	8081 Extended/ 8270C/8270D	(5)		G or C	1/5 YR
121-75-5	Malathion	614	(5)		G or C	1/5 YR
72-43-5	Methoxychlor	608.2	(5)		G or C	1/5 YR
2385-85-5	Mirex	8081 Extended/ 8270C/8270D	(5)		G or C	1/5 YR
56-38-2	Parathion (synonym = Parathion Ethyl)	614	(5)		G or C	1/5 YR
1336-36-3	PCB, total	608/625	7.0		G or C	1/5 YR
8001-35-2	Toxaphene	608/625	5.0		G or C	1/5 YR
BASE NEUTRAL EXTRACTABLES						
83-32-9	Acenaphthene	610/625	10.0		G or C	1/5 YR
120-12-7	Anthracene	610/625	10.0		G or C	1/5 YR
92-87-5	Benzidine	625	(5)		G or C	1/5 YR
56-55-3	Benzo (a) anthracene	610/625	10.0		G or C	1/5 YR
205-99-2	Benzo (b) fluoranthene	610/625	10.0		G or C	1/5 YR
207-08-9	Benzo (k) fluoranthene	610/625	10.0		G or C	1/5 YR
50-32-8	Benzo (a) pyrene	610/625	10.0		G or C	1/5 YR
111-44-4	Bis 2-Chloroethyl Ether	625	(5)		G or C	1/5 YR
108-60-1	Bis 2-Chloroisopropyl Ether	625	(5)		G or C	1/5 YR
117-81-7	Bis 2-Ethylhexyl Phthalate (syn. = Di-2-Ethylhexyl Phthalate)	625	10.0		G or C	1/5 YR
85-68-7	Butyl benzyl phthalate	625	10.0		G or C	1/5 YR
91-58-7	2-Chloronaphthalene	625	(5)		G or C	1/5 YR
218-01-9	Chrysene	610/625	10.0		G or C	1/5 YR

CASRN	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL(1)	REPORTING RESULTS(2)	SAMPLE TYPE(3)	SAMPLE FREQUENCY
53-70-3	Dibenzo (a,h) anthracene	610/625	20.0		G or C	1/5 YR
95-50-1	1,2-Dichlorobenzene	602/624	10.0		G or C	1/5 YR
541-73-1	1,3-Dichlorobenzene	602/624	10.0		G or C	1/5 YR
106-46-7	1,4-Dichlorobenzene	602/624	10.0		G or C	1/5 YR
91-94-1	3,3-Dichlorobenzidine	625	(5)		G or C	1/5 YR
84-66-2	Diethyl phthalate	625	10.0		G or C	1/5 YR
131-11-3	Dimethyl phthalate	625	(5)		G or C	1/5 YR
84-74-2	Di-n-butyl Phthalate (synonym = Dibutyl Phthalate)	625	10.0		G or C	1/5 YR
121-14-2	2,4-Dinitrotoluene	625	10.0		G or C	1/5 YR
122-66-7	1,2-Diphenylhydrazine	625/ 8270C/8270D	(5)		G or C	1/5 YR
206-44-0	Fluoranthene	610/625	10.0		G or C	1/5 YR
86-73-7	Fluorene	610/625	10.0		G or C	1/5 YR
118-74-1	Hexachlorobenzene	625	(5)		G or C	1/5 YR
87-68-3	Hexachlorobutadiene	625	(5)		G or C	1/5 YR
77-47-4	Hexachlorocyclopentadiene	625	(5)		G or C	1/5 YR
67-72-1	Hexachloroethane	625	(5)		G or C	1/5 YR
193-39-5	Indeno(1,2,3-cd)pyrene	610/625	20.0		G or C	1/5 YR
78-59-1	Isophorone	625	10.0		G or C	1/5 YR
98-95-3	Nitrobenzene	625	10.0		G or C	1/5 YR
62-75-9	N-Nitrosodimethylamine	625	(5)		G or C	1/5 YR
621-64-7	N-Nitrosodi-n-propylamine	625	(5)		G or C	1/5 YR
86-30-6	N-Nitrosodiphenylamine	625	(5)		G or C	1/5 YR
129-00-0	Pyrene	610/625	10.0		G or C	1/5 YR
120-82-1	1,2,4-Trichlorobenzene	625	10.0		G or C	1/5 YR
VOLATILES						
107-02-8	Acrolein	624	(5)		G	1/5 YR
107-13-1	Acrylonitrile	624	(5)		G	1/5 YR
71-43-2	Benzene	602/624	10.0		G	1/5 YR
75-25-2	Bromoform	624	10.0		G	1/5 YR
56-23-5	Carbon Tetrachloride	624	10.0		G	1/5 YR
108-90-7	Chlorobenzene (synonym = Monochlorobenzene)	602/624	50.0		G	1/5 YR
124-48-1	Chlorodibromomethane	624	10.0		G	1/5 YR

CASRN	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS[2]	SAMPLE TYPE[3]	SAMPLE FREQUENCY
67-66-3	Chloroform	624	10.0		G	1/5 YR
75-27-4	Dichlorobromomethane	624	10.0		G	1/5 YR
107-06-2	1,2-Dichloroethane	624	10.0		G	1/5 YR
75-35-4	1,1-Dichloroethylene	624	10.0		G	1/5 YR
156-60-5	1,2-trans-dichloroethylene	624	(5)		G	1/5 YR
78-87-5	1,2-Dichloropropane	624	(5)		G	1/5 YR
542-75-6	1,3-Dichloropropene	624	(5)		G	1/5 YR
100-41-4	Ethylbenzene	602/624	10.0		G	1/5 YR
74-83-9	Methyl Bromide (synonym = Bromomethane)	624	(5)		G	1/5 YR
75-09-2	Methylene Chloride (synonym = Dichloromethane)	624	20.0		G	1/5 YR
79-34-5	1,1,2,2-Tetrachloroethane	624	(5)		G	1/5 YR
127-18-4	Tetrachloroethylene (synonym = Tetrachloroethene)	624	10.0		G	1/5 YR
10-88-3	Toluene	602/624	10.0		G	1/5 YR
79-00-5	1,1,2-Trichloroethane	624	(5)		G	1/5 YR
79-01-6	Trichloroethylene (synonym = Trichloroethene)	624	10.0		G	1/5 YR
75-01-4	Vinyl Chloride	624	10.0		G	1/5 YR
ACID EXTRACTABLES						
95-57-8	2-Chlorophenol	625	10.0		G or C	1/5 YR
120-83-2	2,4 Dichlorophenol	625	10.0		G or C	1/5 YR
105-67-9	2,4 Dimethylphenol	625	10.0		G or C	1/5 YR
51-28-5	2,4-Dinitrophenol	625	(5)		G or C	1/5 YR
534-52-1	2-Methyl-4,6-Dinitrophenol	625	(5)		G or C	1/5 YR
25154-52-3	Nonylphenol	ASTM D 7065-06	(5)		G or C	1/5 YR
87-86-5	Pentachlorophenol	625	50.0		G or C	1/5 YR
108-95-2	Phenol	625	10.0		G or C	1/5 YR
88-06-2	2,4,6-Trichlorophenol	625	10.0		G or C	1/5 YR
MISCELLANEOUS						
776-41-7	Ammonia as NH3-N	350.1	200		C	1/5 YR
16887-00-6	Chloride	(4)	(5)		C	1/5 YR (FW and PWS)
7782-50-5	Chlorine, Total Residual	(4)	100		G	1/5 YR
57-12-5	Cyanide, Free [9]	ASTM 4282-02	10.0		G	1/5 YR
N/A	*E. coli* / *Enterococcus* (N/CML)	(4)	(5)		G	1/5 YR

CASRN	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL(1)	REPORTING RESULTS(2)	SAMPLE TYPE(3)	SAMPLE FREQUENCY
18496-25-8	Sulfide, dissolved (8)	SM 4500 S^2 B	100		G or C	1/5 YR
60-10-5	Tributyltin	(6)	(5)		G or C	1/5 YR
471-34-1	Hardness (mg/L as $CaCO_3$)	(4)	(5)		G or C	1/5 YR (FW & TZs)

Name of Principal Executive Officer or Authorized Agent & Title

Signature of Principal Executive Officer or Authorized Agent & Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

FOOTNOTES:

(1) Quantification level (QL) means the minimum levels, concentrations, or quantities of a target variable (e.g. target analyte) that can be reported with a specified degree of confidence in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information (i.e. laboratory certificates of analysis) shall be submitted to document that the required quantification level has been attained.

(2) If the reporting result is greater than or equal to the QL, then include the reporting result. If the reporting result is less than the QL, then report "< [lab QL]". For example, if the reporting result is below the QL with a QL of 25 micrograms/liter, then report "<25".

(3) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

C = Composite = A 24-hour **(PW - Revise as required to require same composite duration as BOD_5)** composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period.

(4) A specific analytical method is not specified; however, an appropriate method to meet the QL shall be selected from any approved method presented in 40 CFR Part 136.

(5) The QL is at the discretion of the permittee. If the test result is less than the method QL, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

(6) Analytical Methods: Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science, dated November 1996 (currently the only Virginia Environmental Laboratory Accreditation Program (VELAP) accredited method).

(7) Both Chromium III and Chromium VI may be measured by the total chromium analysis. The total chromium analytical test QL shall be less than or equal to the lesser of the Chromium III or Chromium VI method QL

listed above. If the result of the total chromium analysis is less than the analytical test QL, both Chromium III and Chromium VI can be reported as “<[QL]”, where the actual analytical test QL is substituted for [QL].

(8) Dissolved sulfide may be measured by the total sulfide analysis. The total sulfide analytical test QL shall be less than or equal to the dissolved sulfide method QL listed above. If the result of the total sulfide analysis is less than the analytical test QL, dissolved sulfide can be reported as “<[QL]”, where the actual analytical test QL is substituted for [QL].

(9) Free cyanide may be measured by the total cyanide analysis. The total cyanide analytical test QL shall be less than or equal to the free cyanide method QL listed above. If the result of the total cyanide analysis is less than the analytical test QL, free cyanide can be reported as “<[QL]”, where the actual analytical test QL is substituted for [QL].

~~Cathy Taylor~~ Canody
cc: Dawn Garber

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

PIEDMONT REGIONAL OFFICE
4949-A Cox Road, Glen Allen, Virginia 23060
(804) 527-5020 Fax (804) 527-5106
www.deq.virginia.gov

L. Preston Bryant, Jr.
Secretary of Natural Resources

David K. Paylor
Director

Gerard Seeley, Jr.
Regional Director

January 7, 2008

Ms. Pamela F. Faggert
Vice President and Chief Environmental Officer
Dominion
5000 Dominion Boulevard
Glen Allen, Virginia 23060

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RE: Modification of VPDES Permit No. VA0004146, Virginia Electric and Power Company – Chesterfied Power Station

Dear Ms. Faggert:

The Director has approved the modification of the referenced permit. This approval is in accordance with the enclosed memorandum from Ray Jenkins to Curtis J. Linderman dated January 7, 2008. Your permit is also enclosed.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under §§ 62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in 9 VAC 25-230-130.B of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

If you have any questions, please contact Ray Jenkins in this office at 804/527-5037 or rrjenkins@deq.virginia.gov.

Sincerely,

Curtis J. Linderman, P.E.
Water Permit Manager

Enclosures: Memorandum
VPDES Permit No. VA0004146

cc: DEQ—Office of Water Permit Programs
EPA—Region III (3WP12)

MEMORANDUM
DEPARTMENT OF ENVIRONMENTAL QUALITY
PIEDMONT REGIONAL OFFICE

SUBJECT: Modification of VPDES Permit No. VA0004146 – Virginia Electric and Power Company, Chesterfield Power Station

TO: Curtis J. Linderman, Water Permits Manager

FROM: Ray Jenkins, Environmental Engineer Senior Ray Jenkins

DATE: January 7, 2008

COPIES: DEQ – Office of Water Permit Programs, EPA – Region III (3WP12)

Legal Name of Owner: Virginia Electric and Power Company

Application Submitted By: Pamela F. Faggert
Vice President and Chief Environmental Officer
Dominion Resources Services, Inc.

Application Date: September 10, 2007 (received September 13, 2007)

Description of Modification: A special condition in the permit addressing 316(b) requirements of the Clean Water Act was modified to be consistent with recent changes to EPA regulations addressing river water intake structures at facilities such as the Chesterfield Power Station. The modification replaces an application deadline of January 7, 2008 with the requirement to submit biological data reflecting any environmental impacts associated with the river water intake and screens within one year of the permit modification date. Modifications were also made to update the special water quality standard designations on the permit cover page, to express effluent limitations in two significant figures, and to update nutrient requirements in the permit to be compatible with the requirements of the Chesapeake Bay nutrient general permit.

Manufacturing Operation: Electricity is generated with steam produced by the combustion of coal and other fossil fuels.

Type of Discharge: Existing, industrial process wastewater discharges.

Wastewater Treatment Facilities: Ash sluice water and wastewater from sumps throughout the station are treated in a settling pond. Metal cleaning wastewater is treated by lime addition, mixing, and chemical precipitation. Non-contact cooling water is dechlorinated. Dechlorination is required for the backwash water from the intake screens.

Receiving Stream:

Stream:	James River [includes Farrar Gut]
Basin:	James River (Lower)
Subbasin:	N/A
Section:	1
Class:	II
Special Standards:	bb

Public Notice: The application and draft permit received public notice in

accordance with the Permit Regulation and no comments were received. One inquiry from the Richmond Regional Planning District Commission was received and adequately addressed.

Planning: The discharge is in conformance with the existing planning documents for the area.

EPA Comments: EPA stated that they had no objections to the draft permit by letter dated December 5, 2007, but commented that the revised 316(b) special condition should require information in addition to that cited in the draft special condition. As the language of the draft special condition had been developed jointly with EPA staff, the Office of Water Permit Programs decided to not revise the special condition per EPA's comment. Also, the additional information requested by EPA probably already exists in previous submittals from Virginia Power.

VDH Comments: VDH advised that they did not need to review the draft permit.

Previous Board Action: None associated with this permit action.

Staff Comments: The discharge is not controversial and is currently meeting the required effluent limitations.

The staff believes that the proposed effluent limitations will maintain the Water Quality Standards adopted by the Board.

STAFF RECOMMENDATIONS:

The staff recommends the following:

1. Approval of the proposed permit modifications.
2. Issuance of modified VPDES Permit No. VA0004090.

Approved: _____
Water Permit Manager

Date: 1/7/08 7 PM

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. VA0004146

Effective Date:	December 10, 2004
Modification Date:	January 7, 2008
Expiration Date:	December 9, 2009

AUTHORIZATION TO DISCHARGE UNDER THE
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
AND
THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application and with this permit cover page, Part I – Effluent Limitations and Monitoring Requirements, and Part II – Conditions Applicable to All VPDES Permits as set forth herein.

Owner:	Virginia Electric and Power Company
Facility Name:	Chesterfield Power Station
City:	NA
County:	Chesterfield
Facility Location:	500 Coxendale Road

The owner is authorized to discharge to the following receiving stream:

Stream:	James River
River Basin:	James River (Lower)
River Subbasin:	NA
Section:	1
Class:	II
Special Standards:	bb

Water Permit Manager, Piedmont Regional Office

1/7/08
Date

A. LIMITATIONS AND MONITORING REQUIREMENTS -- Outfall 001

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 001 -- Condenser Cooling Water from Units 7 and 8.

   a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	NL	NA	NA	NL	Continuous	Calculated
Total Phosphorus (mg/L)	2.0	NA	NA	NL	1/Month	Grab
Heat Rejected (BTU/Hour)	Heat rejected shall not exceed a maximum of 11.3×10^8				Continuous(1)	Recorded(1)
Total Residual Chlorine(2) (µg/L)	26	NA	NA	38	1/Week	Grab(3)
Temperature (^{0}F)(4)	NA	NA	NA	NL	Continuous	Measured

"NA" means not applicable.
"NL" means that no limitation is established. Monitoring and reporting however, are required.
(1) The heat rejected calculation requires the following information: The gross turbine-generator loading and the condenser backpressure. These values are continuously measured and recorded.
(2) Also see Special Condition B.4.
(3) While chlorinating.
(4) The maximum unit discharge temperature from any of the contributing units shall be reported. The unit discharge temperatures from all units shall be continuously recorded utilizing an existing electronic data storage system (which cannot be calibrated to a NIST reference thermometer).

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. LIMITATIONS AND MONITORING REQUIREMENTS -- Outfall 002

2. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 002 – Condenser Cooling Water from Unit 3.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	NL	NA	NA	NL	Continuous	Calculated
Total Phosphorus (mg/L)	2.0	NA	NA	NL	1/Month	Grab
Heat Rejected (BTU/Hour)	Heat rejected shall not exceed a maximum of 6.52×10^8				Continuous(1)	Recorded(1)
Total Residual Chlorine(2) (µg/L)	26	NA	NA	38	1/Week	Grab(3)
Temperature (^{0}F)(4)	NA	NA	NA	NL	Continuous	Measured

"NA" means not applicable.
"NL" means that no limitation is established. Monitoring and reporting however, are required.
(1) The heat rejected calculation requires the following information: The gross turbine-generator loading and the condenser backpressure. These values are continuously measured and recorded.
(2) Also see Special Condition B.4.
(3) While chlorinating.
(4) The maximum unit discharge temperature shall be reported. The unit discharge temperature shall be continuously recorded utilizing an existing electronic data storage system (which cannot be calibrated to a NIST reference thermometer).

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. LIMITATIONS AND MONITORING REQUIREMENTS -- Outfall 003

3. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 003 – Condenser Cooling Water from Units 4, 5, and 6.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	NL	NA	NA	NL	Continuous	Calculated
Total Phosphorus (mg/L)	2.0	NA	NA	NL	1/Month	Grab
Heat Rejected (BTU/Hour)	Heat rejected shall not exceed a maximum of 5.55×10^9				Continuous(1)	Recorded(1)
Total Residual Chlorine(2) (µg/L)	11	NA	NA	16	1/Week	Grab(3)
Temperature (^{0}F)(4)	NA	NA	NA	NL	Continuous	Measured

"NA" means not applicable.
"NL" means that no limitation is established. Monitoring and reporting however, are required.
(1) The heat rejected calculation requires the following information: The gross turbine-generator loading and the condenser backpressure. These values are continuously measured and recorded.
(2) Also see Special Condition B.4.
(3) While chlorinating.
(4) The maximum unit discharge temperature from any of the contributing units shall be reported. The unit discharge temperatures from all units shall be continuously recorded utilizing an existing electronic data storage system (which cannot be calibrated to a NIST reference thermometer).

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. LIMITATIONS AND MONITORING REQUIREMENTS -- Outfall 004

4. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 004 – Old Ash Pond Effluent.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		WEEKLY AVERAGE	MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/L	kg/d			mg/L	kg/d		
Flow (MGD)	NL		NA	NA	NL		2 / Month	Measured
pH (standard units)	NA		NA	6.0	9.0		2 / Month	Grab
Total Suspended Solids	30 (1)	NL	NA	NA	100 (1)	NL	2 / Month	Grab
Dissolved Oxygen	NL	NA	NA	NL	NA		1 / Month	Grab
Total Phosphorus	2.0	NL	NA	NA	NL	NL	1 / Week	Grab
Ammonia, as N	13	NL	NA	NA	19	NL	1 / Week	Grab
Total Organic Carbon	NA		NA	NA	110 (1)	NA	1 / Month	Grab
Total Petroleum Hydrocarbons (TPH)	NL	NA	NA	NA	NA		1 / Year	Grab
Oil and Grease	15	NL	NA	NA	20 (1)	NL	2 / Month	Grab
WET Limitation (TU_C) (2)	NA		NA	NA	50		1 / Quarter	Grab

"NA" means not applicable.
"NL" means that no limitation is established. Monitoring and reporting however, are required.
(1) Limitation expressed in two significant figures.
(2) See Special Condition I.B.17.b.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

c. In addition to any Total Nitrogen or Total Phosphorus concentration limits (or monitoring requirements without associated limits) listed above, this facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN040086, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia.

A. LIMITATIONS AND MONITORING REQUIREMENTS -- Outfall 104

5. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 104 – Effluent from Metal Cleaning Waste Treatment Basin.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	NL	NA	NA	NL	1/Discharge	Calculated
pH (standard units)	NA	NA	NL	NL	1/Discharge	Grab
Total Suspended Solids (mg/L)	30 (1)	NA	NA	100 (1)	1/Discharge	Grab
Total Copper (mg/L)	1.0	NA	NA	1.0	1/Discharge	Grab
Total Iron (mg/L)	1.0	NA	NA	1.0	1/Discharge	Grab
Oil and Grease (mg/L)	15	NA	NA	20 (1)	1/Discharge	Grab

"NA" means not applicable.
"NL" means that no limitation is established. Monitoring and reporting however, are required.

(1) Limitation expressed in two significant figures.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. LIMITATIONS AND MONITORING REQUIREMENTS -- Outfall 005

6. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 005 – New Ash Pond Effluent.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		WEEKLY AVERAGE	MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/L	kg/d			mg/L	kg/d		
Flow (MGD)	NL		NA	NA	NL		2 / Month	Measured
pH (standard units)	NA		NA	6.0	9.0		2 / Month	Grab
Total Suspended Solids	30 (1)	NL	NA	NA	100(1)	NL	2 / Month	Grab
Dissolved Oxygen	NL	NA	NA	NL	NA		1 / Month	Grab
Total Phosphorus	2.0	NL	NA	NA	NL	NL	1 / Week	Grab
Ammonia, as N	NL	NL	NA	NA	NL	NL	1 / Week	Grab
Oil and Grease	15	NL	NA	NA	20 (1)	NL	2 / Month	Grab

"NA" means not applicable.
"NL" means that no limitation is established. Monitoring and reporting however, are required.
(1) Limitation expressed in two significant figures.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

c. In addition to any Total Nitrogen or Total Phosphorus concentration limits (or monitoring requirements without associated limits) listed above, this facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN040086, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia.

A. LIMITATIONS AND MONITORING REQUIREMENTS – Outfalls 006 through 011

7. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial numbers 006 through 011 – Intake Screen Backwash Discharges: Outfall 006 – Unit 7, Outfall 007 – Unit 8, Outfall 008 – Units 3 and 4, Outfall 009 – Unit 4, Outfall 010 – Unit 5, and Outfall 011 – Unit 6.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	NL	NA	NA	NL	1 / 3 Months	Estimated
Total Residual Chlorine (µg/L) (1)	38	NA	NA	38	1 / 3 Months	Grab

"NA" means not applicable.
"NL" means that no limitation is established. Monitoring and reporting however, are required.

(1) See Part I.C. for schedule of compliance. (The limitations become effective in accordance with the schedule of compliance. Monitoring shall commence with the reissuance of the permit.)

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 01/11/2008

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Chesterfield
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION State Route 615 end of Coxendale Rd

PERMIT NUMBER	DISCHARGE NUMBER
VA0004146	001

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Piedmont Regional Office
4949-A Cox Road
Glen Allen VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			CONT	CALC
005 CL2, TOTAL	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	26	38	UG/L		1/W	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	2.0	NL	MG/L		1/M	GRAB
078 TEMPERATURE, WATER (DEG. F)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	F		CONT	MEAS
082 HEAT REJ**8	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	11.3	BTU/H	*********	*********	*********			CONT	REC
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 01/11/2008

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Chesterfield
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION State Route 615 end of Coxendale Rd

VA0004146	002
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Piedmont Regional Office
4949-A Cox Road
Glen Allen VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			CONT	CALC
005 CL2, TOTAL	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	26	38	UG/L		1/W	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	2.0	NL	MG/L		1/M	GRAB
078 TEMPERATURE, WATER (DEG. F)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	F		CONT	MEAS
082 HEAT REJ**8	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	6.52	BTU/H	*********	*********	*********			CONT	REC
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 01/11/2008

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Chesterfield
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION State Route 615 end of Coxendale Rd

VA0004146	003
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Piedmont Regional Office
4949-A Cox Road
Glen Allen VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			CONT	CALC
005 CL2, TOTAL	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	11	16	UG/L		1/W	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	2.0	NL	MG/L		1/M	GRAB
078 TEMPERATURE, WATER (DEG. F)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	F		CONT	MEAS
083 HEAT REJ**9	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	5.55	BTU/H	*********	*********	*********			CONT	REC
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 01/11/2008

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Chesterfield
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION State Route 615 end of Coxendale Rd

VA0004146	004
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Piedmont Regional Office
4949-A Cox Road
Glen Allen VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			2/M	MEAS
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		2/M	GRAB
004 TSS	REPORTD				*********						
	REQRMNT	NL	NL	KG/D	*********	30	100	MG/L		2/M	GRAB
007 DO	REPORTD	*********	*********				*********				
	REQRMNT	*********	*********		NL	NL	*********	MG/L		1/M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD				*********						
	REQRMNT	NL	NL	KG/D	*********	2.0	NL	MG/L		1/W	GRAB
039 AMMONIA, AS N	REPORTD				*********						
	REQRMNT	NL	236	KG/D	*********	13	19	MG/L		1/W	GRAB
059 CARBON, TOTAL ORGANIC	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	110	MG/L		1/M	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVE	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	NL	*********	MG/L		1/YR	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 01/11/2008

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Chesterfield
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION State Route 615 end of Coxendale Rd

VA0004146	004
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Piedmont Regional Office
4949-A Cox Road
Glen Allen VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
500 OIL & GREASE	REPORTD				*********						
	REQRMNT	NL	NL	KG/D	*********	15	20	MG/L		2/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 01/11/2008

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Chesterfield
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION State Route 615 end of Coxendale Rd

VA0004146	104
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Piedmont Regional Office
4949-A Cox Road
Glen Allen VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/DIS	CALC
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/DIS	GRAB
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30	100	MG/L		1/DIS	GRAB
019 COPPER, TOTAL (AS CU)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1.0	1.0	MG/L		1/DIS	GRAB
031 IRON, TOTAL (AS FE)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1.0	1.0	MG/L		1/DIS	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15	20	MG/L		1/DIS	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 01/11/2008

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Chesterfield
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION State Route 615 end of Coxendale Rd

VA0004146	005
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Piedmont Regional Office
4949-A Cox Road

Glen Allen VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			2/M	MEAS
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		2/M	GRAB
004 TSS	REPORTD				*********						
	REQRMNT	NL	NL	KG/D	*********	30	100	MG/L		2/M	GRAB
007 DO	REPORTD	*********	*********				*********				
	REQRMNT	*********	*********		NL	NL	*********	MG/L		1/M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD				*********						
	REQRMNT	NL	NL	KG/D	*********	2.0	NL	MG/L		1/W	GRAB
039 AMMONIA, AS N	REPORTD				*********						
	REQRMNT	NL	NL	KG/D	*********	NL	NL	MG/L		1/W	GRAB
500 OIL & GREASE	REPORTD				*********						
	REQRMNT	NL	NL	KG/D	*********	15	20	MG/L		2/M	GRAB
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 01/11/2008

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Chesterfield
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION State Route 615 end of Coxendale Rd

VA0004146	006
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Piedmont Regional Office
4949-A Cox Road
Glen Allen VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/3M	EST
005 CL2, TOTAL	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 01/11/2008

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Chesterfield
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION State Route 615 end of Coxendale Rd

VA0004146	007
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Piedmont Regional Office
4949-A Cox Road
Glen Allen VA 23060

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/3M	EST
005 CL2, TOTAL	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL			1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 01/11/2008

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Chesterfield
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION State Route 615 end of Coxendale Rd

VA0004146	008
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Piedmont Regional Office
4949-A Cox Road
Glen Allen VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/3M	EST
005 CL2, TOTAL	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL			1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 01/11/2008

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Chesterfield
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION State Route 615 end of Coxendale Rd

VA0004146	009
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Piedmont Regional Office
4949-A Cox Road
Glen Allen VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/3M	EST
005 CL2, TOTAL	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL			1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 01/11/2008

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Chesterfield
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION State Route 615 end of Coxendale Rd

VA0004146	010
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Piedmont Regional Office
4949-A Cox Road
Glen Allen VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				********	********	********				
	REQRMNT	NL	NL	MGD	********	********	********			1/3M	EST
005 CL2, TOTAL	REPORTD				********						
	REQRMNT	********	********		********	NL	NL			1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
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	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 01/11/2008

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Chesterfield
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION State Route 615 end of Coxendale Rd

VA0004146	011
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Piedmont Regional Office
4949-A Cox Road
Glen Allen VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/3M	EST
005 CL2, TOTAL	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL			1/3M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
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	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

THIS REPORT IS REQUIRED BY LAW (33 U. S. C. § 1318 40 CFR 122.60). FAILURE TO REPORT OR FAILURE TO REPORT TRUTHFULLY CAN RESULT IN CIVIL PENALTIES NOT TO EXCEED $10,000 PER DAY OF VIOLATION: OR IN CRIMINAL PENALTIES NOT TO EXCEED $25,000 PER DAY OF VIOLATION OR BY IMPRISONMENT FOR NOT MORE THAN FIVE YEARS, OR BOTH.

GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces are blank or a limitation appears, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and, if appropriate, maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading". KG/DAY = Concentration(mg/l) x Flow(MGD) x 3.785.
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. Enter the number of samples which do not comply with the maximum and /or minimum permit requirements in the "reported" space in the column marked "No. Ex.".
7. Enter the actual frequency of analysis for each parameter (number of times per day, week, month) in the "reported" space in the column marked "Frequency of Analysis".
8. Enter the actual type of sample collected for each parameter in the "reported" space in the column marked "Sample Type".
9. Enter additional required data or comments in the space marked "additional permit requirements or comments".
10. Record the number of bypasses during the month, the total flow in million gallons and BOD5 in kilograms in the proper columns in the section marked "Bypasses and Overflows".
11. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator, the operator's certificate number should be reported in the space provided.
12. The principal executive officer should then review the form and sign in the space provided and provide a telephone number where he/she can be reached.
13. You are required to sample at the frequency and type indicated in your permit.
14. Send the completed form to your Dept. of Environmental Quality Regional Office by the 10th of each month.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each violation by date.
17. If you have any questions, contact the Dept. of Environmental Quality Regional Office.

B. Other Requirements and Special Conditions

1. The permittee shall notify the Department as soon as they know or have reason to believe:

   a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

      (1) One hundred micrograms per liter (100 µg/L);
      (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram (1 mg/L) for antimony.
      (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
      (4) The level established by the Board

   b. That any activity has occurred or will occur which would result in the discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

      (1) Five hundred micrograms per liter (500 µg/L);
      (2) One milligram per liter (1 mg/L) for antimony;
      (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
      (4) The level established by the Board.

2. This permit may be modified or, alternatively, revoked and reissued:

   a. To incorporate technology-based effluent concentration limitations for nutrients in conjunction with the installation of nutrient control technology, whether by new construction, expansion or upgrade; or

   b. To incorporate alternative nutrient limitations and/or monitoring requirements, should:

      (1) the State Water Control Board adopt new nutrient standards for the water body receiving the discharge, including the Chesapeake Bay or its tributaries; or

      (2) a future water quality regulation or statute require new or alternative nutrient control.

3. Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

4. Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day unless the utility can demonstrate to the Board that the units in a particular location cannot operate at or below that level of chlorination.

5. The permittee shall develop an Operations and Maintenance (O&M) Manual for the treatment works. The manual shall detail the practices and procedures that will be followed to ensure compliance with the requirements of this permit. The manual shall be submitted for staff approval within 90 days of the effective date of this permit. The permittee shall operate the treatment works in accordance with the approved O&M Manual. This manual shall include, but not necessarily limited to, the following items as appropriate:

a. Techniques to be employed in the collection, preservation, and analysis of effluent samples;

b. Procedures for measuring and recording the duration and volume of treated wastewater discharged;

c. Discussion of Best Management Practices, if applicable;

d. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants characterized in Part I.B.3 above that will prevent these materials from reaching State waters;

e. Treatment works design, treatment works operation, routine preventative maintenance of units within the treatment works, critical spare parts inventory, and record keeping; and

f. A Sludge/Solids Disposal Plan.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for staff approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit.

6. There shall be no discharge of tank bottom waters from bulk fuel oil or waste oil storage facilities.

7. Ground Water Monitoring

a. The permittee shall continue sampling and reporting in accordance with the ground water monitoring plan dated September 2001, approved by letter dated October 5, 2001, and modification approved by letter dated November 15, 2001. The approved plan is an enforceable part of the permit. Any changes to the plan must be submitted for approval to the Piedmont Regional Office.

If monitoring results indicate that any unit has contaminated the ground water, the permittee shall submit a plan and schedule for corrective action within 60 days of being notified by the regional office. The plan shall set forth the steps to be taken by the permittee to adequately address the contamination source. The plan may include a schedule for risk analysis. Once approved, this plan and schedule shall be incorporated into the permit by reference and become enforceable parts of this permit.

b. Within 60 days of the effective date of this permit, the permittee shall submit a plan and schedule for corrective action, for staff approval, addressing contamination of the ground water attributable to the Old Ash Pond.

8. By letter dated September 12, 2003, the Department of Environmental Quality approved a revised closure plan for the Upper (East) Ash Pond (also known as the New Ash Pond). The approved plan consists of a Revised Closure Plan dated September 2003, a Revised Phasing Plan dated May 2003, and a Revised Construction Quality Assurance Plan dated May 2003. Closure of the New Ash Pond shall be accomplished in accordance with a closure plan approved by the Department of Environmental Quality.

9. There shall be no discharge of polychlorinated biphenyl compounds that originate from this source in amounts equal to greater than that detectable by EPA test methods specified in the Federal Register 40 CFR Part 136 Guidelines for Establishing Test Procedures for the Analysis of Pollutants.

10. Debris collected on the intake trash racks shall not be returned to the waterway.

11. The following discharges shall not contain any process wastewater:
    a. The occasional pumping of river water from the intake screen wells to permit access for maintenance.

    b. Discharges associated with the routine testing of the fire fighting system involving the withdrawal and direct return of water from the river.

    c. The discharge of river water from one sump pump each in the condenser cooling water intake pump rooms for Units 7 and 8.

12. There shall be no discharge of fly ash transport water from Units 7 and 8.

13. The permittee shall employ or contract at least one Class II licensed wastewater works operator for the facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations for the Board for Waterworks and Wastewater Works Operators. The permittee shall notify the Department in writing whenever he is not complying, or has grounds for anticipating he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

14. <u>Compliance Reporting under Part I.A.</u>

    a. Quantification levels shall be as follows:

Effluent Characteristic	Quantification Level
TSS	1 mg/L
Ammonia-N	0.2 mg/L
Total Phosphorus	0.1 mg/L
Total Residual Chlorine	100 µg/L
Total Organic Carbon	5 mg/L
Total Petroleum Hydrocarbons	5 mg/L
Oil & Grease	5 mg/L
Total Copper	0.1 mg/L
Total Iron	0.25 mg/L

    b. Reporting

    Monthly Average: Compliance with the monthly average limitations and/or reporting requirements for parameters listed in Part I.A. shall be determined as follows: All concentration data below the stated QL shall be treated as zero. All concentration data equal to or above the QL shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, for the month. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL, then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the calculated concentration is <QL then report "<QL" for the quantity, otherwise use the calculated concentration.

    Daily Maximum: Compliance with the daily maximum limitations and/or reporting requirements for parameters listed in Part I.A. shall be determined as follows: All concentration data below the stated QL shall be treated as zero. All data equal to or

above the QL shall be treated as reported. An arithmetic average of the values shall be calculated using all reported data, including the defined zeros, collected for each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL, then the average shall be reported as "<QL". If reporting quantity is required on the DMR and the calculated concentration is <QL then report then report "<QL" for the quantity, otherwise use the calculated concentration.

c. Any single datum required shall be reported as "<QL" if it is less than the stated QL. Otherwise the numerical value shall be reported.

d. The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

15. This permit shall be modified, or alternatively revoked and reissued, if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits, or conditions on the facility that are not consistent with the permit requirements.

16. If the permittee plans an expansion or upgrade to replace existing treatment works, or if the facility is permanently closed, the permittee shall submit to the DEQ a closure plan for the existing treatment works. The plan shall address liquid and sludge removal, odor control measures, structure and pipe removal, steps to prevent unauthorized access, fill materials, and final grading and seeding. The plan should contain proposed dates for beginning and completion of the work. The plan must be approved by the DEQ prior to implementation. The permittee may continue discharging until the effluent no longer meets the permit limits or the permit expires, whichever comes first.

17. Whole Effluent Toxicity (WET) Testing Program

a. Outfalls 001, 002, 003, and 004:

(1) In accordance with the schedule in 17.d below, the permittee shall annually conduct acute toxicity tests on Outfalls 001, 002, and 003 for the duration of the permit, and on Outfall 004 until the chronic toxicity limitation in 17.b.(3) becomes effective, at which time acute testing is not required on Outfall 004. The acute test to use is:

48 Hour Static Acute test using *Ceriodaphnia dubia*

These acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for calculation of a valid LC_{50}.

Annual chronic toxicity tests shall be conducted on Outfalls 001, 002, and 003 for the duration of the permit. The chronic test to use is:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction or growth. The LC_{50} at 48 hours and the IC_{25} shall also be reported. Results which cannot be determined (i.e., a "less than" NOEC value) are not acceptable, and a retest shall be performed.

The retest shall be performed within 30 days of receipt of the unacceptable test results. Results of any retest shall be submitted to the Piedmont Regional Office in accordance with the schedule in 17.d below.

The permittee shall collect 24-hour flow-proportioned composite samples of the final effluent from Outfalls 001, 002, and 003, and grab samples from Outfall 004.

The permittee may provide additional samples to address data variability; these data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

(2) The test dilutions shall be able to determine compliance with the following endpoints:

(a) Acute tests:

Outfall 001	$LC_{50} \geq 50\%$ effluent
Outfall 002	$LC_{50} \geq 50\%$ effluent
Outfall 003	$LC_{50} \geq 100\%$ effluent
Outfall 004	$LC_{50} \geq 13\%$ effluent

(b) Chronic tests:

Outfall 001	NOEC $\geq$ 2% effluent
Outfall 002	NOEC $\geq$ 2% effluent
Outfall 003	NOEC = 100% effluent

(3) If an acute or chronic test does not meet the endpoint specified in a.(2) above, a retest shall be performed within 30 days of the permittee receiving the test results.

(a) If the retest meets the endpoint of a.(2) above, resume annual test frequency in accordance with the original testing schedule in 17.d below.

(b) Should the retest not meet the endpoint of a.(2) above, the tests in a.(1) above and 48-hour static acute tests using *Pimephales promelas* and 7-day chronic static renewal survival and growth tests using *Pimephales promelas* shall be performed quarterly for a period of one year, beginning in the calendar quarter following the quarter during which the retest was performed. Test results shall be submitted to the Piedmont Regional Office by the tenth day of the second month following the quarter in which the testing was performed. When four quarters of tests have been completed, the data will be evaluated.

(4) Should evaluation of the data indicate that a limitation is needed, a WET limitation and compliance schedule will be required and the toxicity tests of a.(1) above may be discontinued. If evaluation of the data indicates that a limitation is not needed, the annual testing described in a.(1) above shall resume.

b. Outfall 004 – Chronic Testing:

(1) The chronic tests required in Part I.A.4 of this permit shall be Chronic 3-Brood Static Renewal Survival and Reproduction Tests using *Ceriodaphnia dubia* conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction or growth. Results which cannot be determined (i.e., a

"less than" NOEC value) are not acceptable, and a retest shall be performed. For reporting on the Discharge Monitoring Report (DMR), the NOEC is to be expressed in Chronic Toxicity Units (TU_C), which is obtained by dividing 100 by the test NOEC. The LC_{50} at 48 hours and the IC_{25} shall also be reported.

(2) Two copies of the toxicity test report shall be submitted with the Discharge Monitoring Report (DMR) on which the test result is reported. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

(3) The Whole Effluent Toxicity limitation of 50 TU_c (NOEC $\geq$ 2% effluent) in Part I.A.4 is a final limitation with an effective date four years after the effective date of this permit.

(4) Frequency of Testing

Annual testing is required in accordance with the schedule in 17.d below until the WET limitation in 17.b.(3) above becomes effective. At that time, quarterly testing is required as indicated in Part I.A.4 of this permit, beginning in the calendar quarter following the calendar quarter in which the limitation became effective.

(5) In lieu of a WET limitation, the permit may be modified or revoked and reissued to include pollutant specific limitations if it is demonstrated that toxicity is due to specific pollutants. The pollutant specific limitations must control the toxicity of the effluent.

(6) Alternative endpoints to the NOEC may be used for determination of Chronic Toxicity Units (TU_C) if approved by DEQ staff.

c. Outfall 005:

(1) The permittee shall conduct acute and chronic toxicity tests of final effluent at Outfall 005. Grab samples shall be collected each time a discharge occurs, but at least 30 days apart, until four data sets have been collected. Chronic tests are required only if discharge occurs over five consecutive days. Test results shall be submitted to the Piedmont Regional Office by the tenth day of the second month following the month in which testing was performed. After four data sets have been collected, the data will be evaluated.

The acute tests shall be:

48 Hour Static Acute test using *Ceriodaphnia dubia*
48 Hour Static Acute test using *Pimephales promelas*

These acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for calculation of a valid LC_{50}.

The chronic tests shall be:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*
Chronic 7-day Static Renewal Survival and Growth test using *Pimephales promelas*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction or growth. The LC_{50} at

48 hours and the IC_{25} shall also be reported. Results which cannot be determined (i.e., a "less than" NOEC value) are not acceptable, and a retest shall be performed. The retest shall be performed within 30 days of receipt of the unacceptable test results. Results of the retest shall be submitted to the Piedmont Regional Office by the tenth of the second month following the month in which the retest was performed.

(2) The test dilutions shall be able to determine compliance with the following endpoints:

(a) Acute tests: **$LC_{50} \geq 10\%$** effluent.

(b) Chronic tests: **NOEC $\geq$ 1%** effluent.

(3) If review of the results of the four data sets establishes that tests with one of the species in c.(1) above is less sensitive to the effluent, testing may be reduced to only one species.

(4) Should evaluation of the data indicate that a limitation is needed, a WET limitation and compliance schedule will be required and the toxicity tests of c.(1) above may be discontinued. If evaluation of the data indicates that a limitation is not needed, annual acute and chronic testing shall commence in accordance with the remaining schedule in 17.d below.

d. Reporting Schedule:

The permittee shall report the results of the toxicity testing on Outfalls 001, 002, 003, 004 as appropriate, and 005 as appropriate, and supply 2 copies of the toxicity test reports specified in this WET Monitoring Program in accordance with the following schedule:

Compliance Period	DMR/Report Due Date
By 5-31-2005	By 6-10-2005
By 5-31-2006	By 6-10-2006
By 5-31-2007	By 6-10-2007
By 5-31-2008	By 6-10-2008
By 5-31-2009	By 6-10-2009

18. As this facility currently manages ground water in the bulk fuel oil storage area in accordance with 9 VAC 25-91-10 et seq., Facility and Aboveground Storage Tank (AST) Regulation, this permit does not presently impose ground water monitoring requirements in that storage area. However, this permit may be modified, or alternatively, revoked and reissued to include ground water monitoring not required by the AST regulation.

19. Within one year of the effective date of this permit, a Basis of Design Report addressing the construction and operation of a range of nutrient removal technologies up to and including the limit of technology, shall be submitted to the Department of Environmental Quality. Additional information on the scope and contents of a Basis of Design Report is available from DEQ staff.

20. Within one year of the effective date of this permit, a report addressing alternatives and interim measures that may be taken to optimize nutrient removal with the existing facilities shall be submitted to the Department of Environmental Quality. The report shall describe alternatives considered and a plan to implement the selected interim measures.

21. As required by §316(b) of the Clean Water Act, the location, design, construction, and capacity of the cooling water intake structures for the permitted facility shall reflect the best technology available (BTA) for minimizing adverse environmental impact. Within one year of the modification date of this permit the permittee shall submit biological data collected consistent with that described in the February 2005 Proposal for Information Collection. This permit may be reopened to address compliance with Clean Water Act §316(b) through requirements including but not limited to those specified in EPA regulations in 40 CFR Part 125 Subpart J when finalized.

22. This permit may be modified, or alternatively, revoked and reissued to incorporate appropriate temperature limitations if the Virginia Water Quality Standards are revised to include numeric standards addressing human health.

23. This facility shall submit a Concept Engineering Report (CER) for DEQ approval prior to installation of any nutrient removal wastewater treatment technology. Upon approval of a CER for the installation of nutrient removal technology, DEQ staff shall initiate modification, or alternately, revocation and reissuance, of this permit to include annual concentration limits based on the technology proposed in the CER. The permittee shall inform the DEQ regional office within 14 days of completion of construction of any project for which a CER has been approved. Upon completion of construction in accordance with a CER that has been approved by the DEQ regional office, any nutrient removal facilities installed shall be operated to achieve design effluent Total Nitrogen and Total Phosphorus concentrations.

C. Schedule of Compliance

The permittee shall comply with the effluent limitations for total residual chlorine in Part I.A.7. of the permit for Outfalls 006 through 011 in accordance with the following schedule:

Milestone	Compliance Date
1. Submit Plan of Action, to include Conceptual Engineering Report (CER) for wastewater treatment facilities if appropriate	Within 18 months following the effective date of the permit
2. Initiate implementation of Plan of Action	Within 3 months of DEQ approval of the Plan of Action
3. Submit reports of progress	Quarterly starting 3 months after beginning implementation and continuing until compliance is achieved
4. Achieve compliance with the limitations in Part I.A.7. of the permit	Within 48 months following the effective date of the permit

No later than 14 calendar days following a deadline established by the above schedule of compliance, the permittee shall submit to the Piedmont Regional Office either a report of progress or, in the case of specific actions being required, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial action taken, and the probability of meeting the next scheduled requirement.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.

2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.

3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records

1. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) and time(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Piedmont Regional Office
   4949-A Cox Road
   Glen Allen, Virginia 23060-6296

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved, or specified by the Department.

C. Reporting Monitoring Results (continued)

3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or

2. Otherwise alter the physical, chemical, or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II.F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department within five days of discovery of the discharge. The written report shall contain:

G. Reports of Unauthorized Discharges (continued)

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate, and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed.

The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:

   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:

   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

I. Reports of Noncompliance (continued)

3. The permittee shall report all instances of noncompliance not reported under Parts II.I.1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II.G, H, and I may be made to the Department's Regional Office at (804) 527-5020 (voice) or (804) 527-5106 (facsimile). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

      (1) After promulgation of standards of performance under Section 306 of the Clean Water Act which are applicable to such source; or

      (2) After proposal of standards of performance in accordance with Section 306 of the Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. Applications. All permit applications shall be signed as follows:

   a. For a corporation: By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the

K. Signatory Requirements (continued)

necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits and other information requested by the Board shall be signed by a person described in Part II.K.1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described in Part II.K.1;

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II.K.2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II.K.1 or 2 shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

L. Duty to Comply (continued)

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U), and "upset" (Part II.V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges

Solids, sludges, or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II.U.2 and U.3.

2. Notice

   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.

   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.

3. Prohibition of bypass

   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:

      (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

      (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

      (3) The permittee submitted notices as required under Part II.U.2.

   b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   a. An upset occurred and that the permittee can identify the cause(s) of the upset;
   b. The permitted facility was at the time being properly operated;
   c. The permittee submitted notice of the upset as required in Part II.I; and
   d. The permittee complied with any remedial measures required under Part II.S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II.Y.1, this permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;

   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

MODIFICATION OF VPDES PERMIT NO. VA0004146
SUPPLEMENT TO VPDES PERMIT FACT SHEET

This document gives pertinent information concerning the modification of the VPDES permit listed below. This permit is being processed as a major, Industrial permit. The effluent limitations contained in this permit will maintain the Water Quality Standards of 9 VAC 25-260-00 et seq. The discharges result from the generation of electricity (station capacity of 1750 megawatts) using steam produced by the combustion of coal and other fossil fuels. This permit action revises the Clean Water Act Section 316(b) requirements of the permit in accordance with revisions to the Federal regulations; removes requirements of the individual permit that are duplicated in the *General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia* which became effective on January 1, 2007; implements DEQ's significant figures guidance; updates the special standards designations on the permit cover page; and incorporates wording changes to the permit cover page, the nutrient reopener special condition, and the compliance reporting special condition.

1. Owner Name and Address: Virginia Electric & Power Company
500 Dominion Boulevard
Glen Allen, VA 23060

Facility Name and Address: Virginia Electric and Power Company
Chesterfield Power Station
500 Coxendale Road
Chester, Virginia 23831

2. SIC Code: 4911 – Electric Services

3. Permit No. VA0004146

4. Owner Contact: Oula Shehab
Environmental Specialist
Telephone Number: 804/273-2697
E-mail: oula.k.shehab-dandan@dom.com

5. Application Complete Date: Letter dated September 10, 2007 from Pamela Faggert, Vice President and Chief Environmental Officer, received at the Piedmont Regional Office on September 13, 2007.

Permit Drafted By: Ray Jenkins Date: November 26, 2007

Reviewed By: Date:

6. Receiving Stream: Name: James River [includes Farrar Gut]
Basin: James River (Lower)
Subbasin: NA

Section: 1
Class: II
Special Standards: bb

River Mile: Outfalls 001 and 002: 2-JMS097.70
Outfall 003: 2-JMC003.77
Outfall 004: 2-JMC003.75
Outfall 005: 2-JMC000.37
Outfalls 006 through 011: 2-JMS097.80
Tidal: _X_Yes ___No

7. Permit Characterization: (Check as many as appropriate)

( ) Issuance
( ) Reissuance
( ) Revoke & Reissue
(X) Owner Modification
( ) Board Modification
( ) Change of Ownership/Name
Effective Date:
( ) Municipal
SIC Code(s):
(X) Industrial
SIC Code(s): 4911
( ) POTW
( ) PVOTW
(X) Private
( ) Federal
( ) State
( ) Publicly-Owned Industrial

(X) Existing Discharges
( ) Proposed Discharge
(X) Effluent Limited
(X) Water Quality Limited
(X) WET Limit
(X) Interim Limits in Permit
( ) Interim Limits in Other Document (attached)
(X) Compliance Schedule Required
( ) Site Specific WQ Criteria
(X) Variance to WQ Standards
( ) Water Effects Ratio
(X) Discharge to 303(d) Listed Segment
(X) Toxics Management Program Required
( ) Toxics Reduction Evaluation
( ) Pretreatment Program Required
( ) Storm Water Management Plan
( ) Possible Interstate Effect

8. Proposed modifications to permit:

Cover Page:

a. The language in the first paragraph was updated. The last paragraph was incorporated into the first paragraph.

b. The water quality special standard designation of "NEW-18" has been repealed, so that designation was deleted.

c. Special Standard bb, which became effective on January 12, 2006, establishes chlorophyll a criteria for this section of the James River. This section of the James River was not assessed for chlorophyll a in the 2006 water quality assessment report. The nutrient allocations in the Chesapeake Bay tributary strategies (9 VAC 25-720-60-C) however, are intended to achieve compliance with this special standard. The Chesterfield Power Station has coverage under the *General VPDES Watershed Permit*

Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia which implements the nutrient allocations.

Part I.A

a. Monitoring and reporting that are redundant to the requirements of the nutrient general permit were removed from the following sections of Part I.A:

(1) Part I.A.1 – removed Total Nitrogen monitoring.
(2) Part I.A.2 – removed Total Nitrogen monitoring.
(3) Part I.A.3 – removed Total Nitrogen monitoring.
(4) Part I.A.4 – removed Total Nitrogen (mg/L, kg/d, kg/month, and kg/calendar year), TKN (mg/L and kg/d), Nitrate plus Nitrite (mg/L and kg/d), Total Phosphorus (kg/month and kg/calendar year), and orthophosphate (mg/L and kg/d). The Total Phosphorus limitation of 2.0 mg/L monthly average remains until the facility achieves compliance with its nutrient allocations.
Part I.A.4.c was added referencing coverage of this facility under the nutrient general permit.
(5) Part I.A.6 – removed Total Nitrogen (mg/L, kg/d, kg/month, and kg/calendar year), TKN (mg/L and kg/d), Nitrate plus Nitrite (mg/L and kg/d), Total Phosphorus (kg/month and kg/calendar year), and orthophosphate (mg/L and kg/d). The Total Phosphorus limitation of 2.0 mg/L monthly average remains until the facility achieves compliance with its nutrient allocations.
Part I.A.6.c was added referencing coverage of this facility under the nutrient general permit.

b. DEQ's guidance regarding the expression of limitations in two significant figures was implemented for the following limitations in Part I.A:

(1) Part I.A.4 – Footnote added identifying the TSS, TOC, and the oil & grease daily maximum limitations as two significant figures.
(2) Part I.A.5 – Footnote added identifying the TSS and the oil & grease daily maximum limitations as two significant figures.
(3) Part I.A.6 – Footnote added identifying the TSS and the oil & grease daily maximum limitations as two significant figures.

Part I.B

a. Special Condition B.2 has been revised to reflect the language in Guidance Memorandum No. 07-2008, Amendment No.1.

b. Special Condition B.14 – the quantification level (QL) for Total Nitrogen was deleted and the language in B.14.d revised to be consistent with current guidance.

c. Special Condition B.19 was deleted because the reporting addressed in this special condition is now required by the nutrient general permit.

Note that deleting special condition 19 forces renumbering of the remaining special conditions.

d. Special Condition B.21 (previously B.22) was revised to reflect changes in the 316(b) requirements. The facility includes a cooling water intake structure governed by §316(b) of the Clean Water Act which requires that the location, design, construction and capacity of the cooling water intake structures reflect the "best technology available for minimizing adverse environmental impact". The Chesterfield Power Station December 1980 environmental report on impingement and entrainment studies conducted at the facility indicated minimal or no adverse environmental impact. The special condition requires continued compliance with §316(b) and submittal of new data that was recently collected in response to EPA's Phase II requirements. Collected data and any changes to the intake structures or conditions will be reevaluated at each reissuance to monitor continued compliance with the requirement. The condition also includes a reopener, should further §316(b) related conditions become necessary once the EPA Phase II rule is finalized or a new BPJ determination is required.

e. Special Condition 23 was added to address the installation of any treatment to remove nitrogen and phosphorus from the wastestream. 9 VAC 25-40-70 A authorizes DEQ to include technology-based annual concentration limitations in the permits of facilities that have installed nutrient control equipment, whether by new construction, expansion, or upgrade.

9. Public Notice Information required by 9 VAC 25-31-280 B:

Comment period: Start Date: December 8, 2007 End Date: January 7, 2008

Publication dates: December 8 and 15, 2007

All pertinent information is on file and may be inspected or copied by contacting Ray Jenkins at:

Virginia Department of Environmental Quality (DEQ)
Piedmont Regional Office
4949-A Cox Road
Glen Allen, Virginia 23060-6296

Telephone Number 804/527-5037
Facsimile Number 804/527-5106
Email rrjenkins@deq.virginia.gov

Persons may comment in writing or by e-mail to the DEQ on the proposed modification of the permit, and may request a public hearing, during the comment period. Comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within the comment period will be

considered. The DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing, and a brief explanation of how the requester's interests would be directly and adversely affected by the proposed permit action.

Following the comment period, the Board will make a determination regarding the proposed modification. That determination will become effective, unless the DEQ grants a public hearing. Due notice of any public hearing will be given.

10. Public Comment: No comments were received from the public notice. One inquiry was received from the Richmond Regional Planning District Commission and adequately addressed.

COMMONWEALTH of VIRGINIA

Matthew J. Strickler
Secretary of Natural Resources

DEPARTMENT OF ENVIRONMENTAL QUALITY
Blue Ridge Regional Office
3019 Peters Creek Road, Roanoke, Virginia 24019
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David K. Paylor
Director

Robert J. Weld
Regional Director

JUL 9 2018

Mr. Jason Williams
Director Electric Environmental Services
Dominion-Clover Power Station
5000 Dominion Boulevard
Glen Allen, VA 23060

RE: Reissuance of VPDES Permit No. VA0083097 – Dominion - Clover Power Station; Halifax County, Virginia

Dear Mr. Williams:

Your VDPES permit is enclosed. The first DMR required by this permit for **monthly monitored parameters** is due on **September 10, 2018** for the period of **August 2018**.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have **thirty days** from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under §§ 62.1 - 44.16, 62:1 - 44.17, and 62.1 - 44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in §1.23(b) of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

If you have any questions about the permit, please call Frank Bowman at (540) 562-6700.

Sincerely,

R. Nelson Dail
Deputy Regional Director

Enclosures: Fact Sheet pages and VPDES Permit for Permit No. VA0083097

Cc: EPA, Region III-3WP12

COMMONWEALTH of VIRGINIA

Permit No.:	VA0083097
Effective Date:	July 9, 2018
Expiration Date:	June 30, 2023

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, and Parts I and II of this permit, as set forth herein.

Owner:	Virginia Electric and Power Company & Old Dominion Electric Cooperative
Facility Name:	Clover Power Station
County:	Halifax County
Facility Location:	4091 Clover Road, Clover, Virginia

The owner is authorized to discharge to the following receiving stream:

Stream:	Roanoke River (Outfalls 001, 002, 004, 005 and 009)
	Black Walnut Creek (Outfalls 003, 006-008 and 011-016)
River Basin:	Roanoke River
River Subbasin:	Roanoke River
Section:	5 (Roanoke River)
	5a (Black Walnut Creek)
Class:	IV (Roanoke River)
	III (Black Walnut Creek)
Special Standards:	PWS

R. Nelson Dail, Deputy Regional Director, Blue Ridge Regional Office

7-9-18

Date

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall 001 (final holding pond).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/l*	lbs/day*	mg/l*	mg/l*	lbs/day*		
Flow (MGD)	NL		NA	NL		1/Day	Estimated
pH (standard units)	NA		6.0	9.0		5 Days/Week	Grab
Temperature (deg. C)	NA		NA	40		5 Days/Week	I.S.
Total Suspended Solids [a] [b]	30	NA	NA	100	NA	1/3 Months	Grab
Oil & Grease (mg/l) [a]	15	NA	NA	20	NA	1/3Months	Grab
Dissolved Oxygen	NA		5.7	NA		5 Days/Week	Grab
Total Petroleum Hydrocarbons	NL	NA	NA	NA		1/Year	Grab

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

"I.S." means immersion stabilization

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31, **due April 10**); 2nd quarter (April 1 - June 30, **due July 10**); 3rd quarter (July 1 - September 30, **due October 10**); 4th quarter (October 1 - December 31, **due January 10**).

1/6 Months = Between January 1 and June 30, **due July 10**; and July1 and December 31, **due January 10 of following year**.

[a] See Parts I.B.7.a. and I.B.7.b. for quantification levels and reporting requirements, respectively.

[b] See Part I.B.11. for additional instructions regarding effluent monitoring frequencies.

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall 101 (cooling tower blowdown).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/l*	lbs/day*	mg/l*	mg/l*	lbs/day*		
Flow (MGD)	NL		NA	NL		1/Week	Estimated
Free Available Chlorine	0.2	NL	NA	0.5	NL	2/Month	Grab
Total Chromium [a] [b]	0.2	NL	NA	0.2 [c]	NL	1/3 Months	Grab
Total Zinc [a] [b] [c]	1.0	NL	NA	1.0 [c]	NL	1/3 Months	Grab
The 126 priority pollutants contained in chemicals added for cooling tower maintenance, excepting chromium and zinc. [c]	Non-detectable. See [c] below.					1/3 Months	Grab

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31, **due April 10**); 2nd quarter (April 1 - June 30, **due July 10**); 3rd quarter (July 1 - September 30, **due October 10**); 4th quarter (October 1 - December 31, **due January 10**).

[a] See Parts I.B.7.a. and I.B.7.b. for quantification levels and reporting requirements, respectively.

[b] See Part I.B.11. for additional instructions regarding effluent monitoring frequencies.

[c] As an alternative to the routine monitoring for the 126 priority pollutants (including chromium and zinc) at this outfall, compliance with the above limitations may be determined by engineering calculations which demonstrate that the regulated pollutants are not detectable in the final discharge by the analytical methods in 40 CFR Part 136.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

3. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall 102 (neutralization basin).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/l*	lbs/day*	mg/l*	mg/l*	lbs/day*		
Flow (MGD)	NL		NA	NL		1/Week	Estimated

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall 103 (sewage plant discharge).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/l*	lbs/day*	mg/l*	mg/l*	lbs/day*		
Flow (MGD)	NL		NA	NL		5 Days/Week	Estimated
BOD5 [b]	30	NL	NA	45	NL	1/6 Months	Grab
Total Suspended Solids [b]	30	NL	NA	45	NL	1/6 Months	Grab
Total Residual Chlorine [a] [b]	NA	NA	1.5	NA	NA	5 Days/Week	Grab

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/6 Months = Between January 1 and June 30, **due July 10**; and July1 and December 31, **due January 10 of following year**.

[a] See Part I.B.1. for additional chlorine monitoring instructions.

[b] See Part I.B.11. for additional instructions regarding effluent monitoring frequencies.

The design flow of this treatment facility is 0.015 MGD.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

5. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall 002 (storm water runoff holding pond [coal storage, limestone and lime storage and handling, scrubber sludge storage and coal combustion by-product areas]).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/l*	lbs/day*	mg/l*	mg/l*	lbs/day*		
Flow (MGD)	NL		NA	NL		1/Day	Estimated
pH (standard units)	NA		6.0	9.0		2/Month	Grab
Total Suspended Solids [a]	NA	NA	NA	50	NA	2/Month	Grab

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

6. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall numbers 003, 011, 012, 013, 014, 015 and 016 (storm water from regulated SIC code industrial activity areas). Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	MINIMUM µg/l*	MAXIMUM µg/l*	FREQUENCY	SAMPLE TYPE
Flow (MG)	NA	NL	1/Year	Estimated [a]
pH (standard units)	NL	NL	1/Year	Grab
Total Suspended Solids (mg/l)	NA	NL	1/Year	Grab
Total Recoverable Iron	NA	NL	1/Year	Grab

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/6 Months = Between January through June, **due July 10**, and July through December, **due January 10 of following year**.

[a] Estimate of the total volume of the sampled discharge.

For outfalls 003, 011, 012, 013, 014, 015 and 016, the monitoring and reporting in Part I.C.2.b. are not applicable to these outfalls. In addition, the substitute samples required in Part I.C.2.c are not necessary.

Outfalls 011, 012, 013, 014, 015, and 016 are substantially identical and a sample at any 1 of the 6 can be considered representative of the remaining 5 outfalls.

Samples shall be taken within the first 30 minutes after receiving 0.1 inches of rain if outfall is discharging or within 30 minutes of first flow after receiving 0.1 inches of rain.

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

7. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall numbers 004, 005, 006, 007 and 008 (storm water from regulated SIC code industrial activity areas).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	MINIMUM ug/l*	MAXIMUM ug/l*	FREQUENCY	SAMPLE TYPE
Flow (MG)	NA	NL	1/Year	Estimated [a]
pH (standard units)	NL	NL	1/Year	Grab
Total Suspended Solids (mg/l)	NA	NL	1/Year	Grab
Total Recoverable Iron	NA	NL	1/Year	Grab

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/6 Months = Between January through June, **due July 10**, and July through December, **due January 10 of following year**.

[a] Estimate of the total volume of the discharge sampled during the storm event.

Samples shall be taken within the first 30 minutes after receiving 0.1 inches of rain if outfall is discharging or within 30 minutes of first flow after receiving 0.1 inches of rain.

Outfalls 006, 007, and 008 are substantially identical and a sample collected at any 1 of 3 outfalls can be considered representative of the remaining 2 outfalls.

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

8 During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall 009 (WWTP for storm water runoff and leachate from the Stage III landfill, ground water from the underdrain system, leachate and storm water from the Stage I and II landfill and ground water well purge.

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/l*	lbs/day*	mg/l*	mg/l*	lbs/day*		
Flow (MGD)	NL		NA	NL		1/Day	Estimated
pH (standard units)	NA		6.0	9.0		2/Month	Grab
Total Suspended Solids	NL	NL	NA	50	NL	2/Month	Grab
Total Recoverable Manganese (µg/l) [a]	NA		NA	50		1/Year	Grab

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

[a] See Parts I.B.7.a. and I.B.7.b. for quantification levels and reporting requirements, respectively.

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. GROUND WATER LIMITATIONS AND MONITORING REQUIREMENTS

9. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee shall monitor the ground water from the following site monitoring locations: PW-1 (upgradient well); PW-6, PW-7 and PW-8 (perimeter wells)

Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	LIMITATIONS	UNITS	MONITORING REQUIREMENTS	
			FREQUENCY	SAMPLE TYPE
Static Water Level	NL	0.01 FT	1/Year	Measured
pH (standard units)	NL	SU	1/Year	Grab
Specific Conductance	NL	µmhos/cm	1/Year	Grab
Total Dissolved Solids (TDS)	NL	mg/l	1/Year	Grab
Total Organic Carbon (TOC)	NL	mg/l	1/Year	Grab
Sulfate	NL	mg/l	1/Year	Grab
Dissolved Chromium	NL	mg/l	1/Year	Grab
Dissolved Manganese	NL	mg/l	1/Year	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

Grab samples - An individual sample should be taken after three (3) well volumes of ground water are removed (allowing the well to recharge between each well volume removed) or until well purging parameters (i.e. pH, temperature, and specific conductance) stabilize to ± 10%. The bailer or hose used should not contaminate samples.

B. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1. Additional TRC Limitations and Monitoring Requirements – Outfall 103

a. The permittee shall monitor the TRC at the outlet of each operating chlorine contact tank, prior to dechlorination, five days per week by grab sample.

b. No more than 4 of all samples taken at the outlet of each operating chlorine contact tank, prior to dechlorination, shall be less than 1.5 mg/l for any one calendar month.

c. No TRC sample collected at the outlet of any operating chlorine contact tank, prior to dechlorination, shall be less than 0.6 mg/l.

d. If dechlorination facilities exist all samples above shall be collected prior to dechlorination.

e. If an alternative to chlorination as a disinfection method is chosen, *E. coli* shall be limited and monitored by the permittee as specified below:

	Discharge Limitations	Monitoring Requirements	
	Monthly Average	Frequency	Sample Type
E. coli	126* (n/100 ml)	4/Month	Grab (Between 10 AM & 4 PM)

The above requirements, if applicable, shall substitute for the TRC requirements delineated in Parts I.A. and I.B.1 above.

* Geometric Mean

2. Notification Levels

The permittee shall notify the Department as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
   (1) One hundred micrograms per liter (100 ug/l);
   (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
   (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
   (4) The level established by the Board.

b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

   (1) Five hundred micrograms per liter (500 ug/l);
   (2) One milligram per liter (1 mg/l) for antimony;
   (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application.

(4) The level established by the Board.

3. Operations and Maintenance (O & M) Manual

The permittee shall maintain a current Operations and Maintenance (O&M) Manual for the treatment works that is in accordance with Virginia Pollutant Discharge Elimination System Regulations, 9VAC25-31 and (for sewage treatment plants) Sewage Collection and Treatment Regulations, 9 VAC 25-790.

The O&M Manual and subsequent revisions shall include the manual effective date and meet Part II.K.2 and Part II.K.4 Signatory Requirements of the permit. Any changes in the practices and procedures followed by the permittee shall be documented in the O&M Manual within 90 days of the effective date of the changes. The permittee shall operate the treatment works in accordance with the O&M Manual and shall make the O&M manual available to Department personnel for review during facility inspections. Within 30 days of a request by DEQ, the current O&M Manual shall be submitted to the DEQ Regional Office for review and approval.

The O&M manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

a. Permitted outfall locations and techniques to be employed in the collection, preservation, and analysis of effluent, storm water and sludge samples;
b. Procedures for measuring and recording the duration and volume of treated wastewater discharged;
c. Discussion of Best Management Practices, if applicable;
d. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants that will prevent these materials from reaching state waters. List type and quantity of wastes, fluids, and pollutants (e.g. chemicals) stored in bulk at this facility;
e. Discussion of treatment works design, treatment works operation, routine preventative maintenance of units within the treatment works, critical spare parts inventory and record keeping;
f. Plan for the management and/or disposal of waste solids and residues.
g. Hours of operation and staffing requirements for the plant to ensure effective operation of the treatment works and maintain permit compliance;
h. List of facility, local and state emergency contacts; and,
i. Procedures for reporting and responding to any spills/overflows/treatment works upsets.

4. Licensed Wastewater Operator Requirement

The permittee shall employ or contract at least one Class III licensed wastewater works operator (for the industrial wastewater treatment facilities), and at least one IV licensed wastewater works operator (for the sewage treatment works). The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the Board for Waterworks and Wastewater Works Operators. The permittee shall notify the DEQ Regional Office, in writing, whenever the permittee is not complying, or has grounds for anticipating the permittee will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

5. Water Quality Criteria Reopener

Should effluent monitoring indicate the need for any water quality-based limitation, this permit may be modified or, alternatively, revoked and reissued to incorporate appropriate limitations.

6. Water Quality Monitoring

The permittee shall monitor the effluent at outfalls 002 and 009 for the substances noted in Attachment A of the permit according to the indicated analysis number, quantification level, sample type and frequency. **Monitoring shall be initiated after the start of the third year from the permit's effective date.** Using Attachment A as the reporting form, the data shall be submitted with the next permit reissuance application. Monitoring and analysis shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved method. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. The DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

Completed Attachment A Due: No later than January 1, 2023

7. Compliance Reporting

a. The quantification levels (QL) shall be less than or equal to the following concentrations:

Effluent Characteristic	Quantification Level
Chlorine	0.10 mg/l
Total Recoverable Iron	250 µg/l
Total Recoverable Manganese	10 µg/l
Total Chromium	0.05 mg/l
Total Zinc	0.05 mg/l

The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained. The permittee shall use any method in accordance with Part II A of this permit.

b. **Monthly Average** -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis shall be treated as it is reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL used for the analysis, then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported monthly average concentration is <QL, then report "<QL" for the quantity. Otherwise use the reported concentration data (including the defined zeros) and flow data for each sample day to determine the daily quantity and report the monthly average of the calculated daily quantities.

Daily Maximum -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as zero. All concentration data

equal to or above the QL used for the analysis shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL used for the analysis, then the maximum value of the daily averages shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported daily maximum is <QL, then report "<QL" for the quantity. Otherwise use the reported daily average concentrations (including the defined zeros) and corresponding daily flows to determine daily average quantities and report the maximum of the daily average quantities during the reporting month.

Single Datum - Any single datum required shall be reported as "<QL" if it is less than the QL used in the analysis (QL must be less than or equal to the QL listed in a. above). Otherwise the numerical value shall be reported.

c. **Significant Digits** -- The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used by the permittee (i.e., 5 always rounding up or to the nearest even number), the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

8. Total Maximum Daily Load (TMDL) Reopener

This permit shall be modified or, alternatively, revoked and reissued if any approved waste load allocation procedure, pursuant to section 303(d) of the Clean Water Act, imposes waste load allocations, limits or conditions on the facility that are not consistent with the requirements of this permit.

9. Sludge Management Plan

The permittee shall conduct all sewage sludge use or disposal activities in accordance with the Sludge Management Plan (SMP) approved with the issuance of this permit. Any **proposed changes** in the sewage sludge use or disposal practices or procedures followed by the permittee shall be documented and **submitted for Department of Environmental Quality and Department of Health approval 90 days prior to the effective date of the changes**. Upon approval, the revised SMP becomes an enforceable part of the permit. The permit may be modified or, alternatively, revoked and reissued to incorporate limitations or conditions necessitated by substantive changes in sewage sludge use or disposal practices.

10. Sludge Reopener

This permit may be modified or, alternatively, revoked and reissued if any applicable standard for sewage sludge use or disposal promulgated under Section 405(d) of the Clean Water Act is more stringent than any requirements for sludge use or disposal in this permit, or controls a pollutant or practice not limited in this permit.

11. Effluent Monitoring Frequencies

If the facility permitted herein is issued a Notice of Violation for any of the parameters listed below, then the following effluent monitoring frequencies shall become effective upon written notice from DEQ and remain in effect until permit expiration date.

Effluent Parameter	Outfall	Frequency
TSS	001	1/Week
Oil and Grease	001	1/Week
Total Chromium	101	2/Month
Total Zinc	101	2/Month
BOD5	103	1/Month
TSS	103	1/Month

No other effluent limitations or monitoring requirements are affected by this special condition.

12. Whole Effluent Toxicity Testing

a. Biological Monitoring

(1) In accordance with the schedule in b. below, the permittee shall conduct annual acute toxicity tests for the length of the permit. The permittee should collect 24-hour flow-proportioned composite samples of final effluent from outfall 001, and grab samples from outfall 009. The acute tests for outfalls 001, 002 and 009 to use are:

48 Hour Static Acute test using *Ceriodaphnia dubia*

These acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for calculation of a valid LC_{50}. Express as the results as TU_a (Acute Toxic Units) by dividing $100/LC_{50}$ for reporting.

The permittee may provide additional samples. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3

(2) The test dilutions should be able to determine compliance with the following endpoint:

Outfall 001 – Acute LC_{50} of 100% equivalent to a TU_a of 1.00
Outfall 002 – Acute LC_{50} of 2% equivalent to a TU_a of 50.00
Outfall 009 – Acute LC_{50} of 11% equivalent to a TU_a of 9.09

(3) The test data will be evaluated for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of 1.a. may be discontinued.

(4) All applicable data will be reevaluated for reasonable potential at the end of the permit term.

(5) If, in the testing according to B.12.a.(1)., any toxicity tests are invalidated, the tests shall be repeated within the testing period that the original test was taken, or if already past that period, within thirty (30) days of notification. If there is no discharge during this period, a sample must be taken during the first discharge.

b. Reporting Schedule:

The permittee shall report the results of the toxicity tests specified in this Toxics Management Program in accordance with the following schedule:

(1)	**Conduct first annual biological tests**	**Between February 1, 2019 and December 31, 2019**
(2)	**Submit results of all biological tests**	**With a Discharge Monitoring Report (DMR) by January 10, 2020**
(3)	**Conduct subsequent annual biological tests**	**By December 31, 2020, 2021, 2022**
(4)	**Submit results of all biological tests**	**With a DMR by January 10, 2021, 2022, 2023**

13. Ground Water Monitoring Plan

The permittee shall continue sampling and reporting of monitoring wells PW-1, PW-6, PW-7 and PW-8 in accordance with the ground water monitoring plan approved on December 16, 2004. Sampling and reporting of monitoring wells PW-2, PW-3, PW-4 and PW-5 in accordance with the December 16, 2004 plan is no longer required as these wells are sampled and reported under the station's solid waste permit No. 622. The purpose of this plan is to determine if the system integrity is being maintained and to indicate if activities at the site are resulting in violations of the Board's Ground Water Standards. The approved plan is an enforceable part of the permit. Any changes to the plan must be submitted for approval to the DEQ Regional Office.

If monitoring results indicate that any unit has contaminated the ground water, the permittee shall submit a corrective action plan within 60 days of being notified by the DEQ Regional Office. The plan shall set forth the steps to be taken by the permittee to ensure that the contamination source is eliminated or that the contaminant plume is contained on the permittee's property. In addition, based on the extent of contamination, a risk analysis may be required. Once approved, this plan and/or analysis shall be incorporated into the permit by reference and become an enforceable part of this permit.

14. 95% Design Capacity Notification

A written notice and a **plan of action** for ensuring continued compliance with the terms of this permit shall be submitted to the DEQ Regional Office when the monthly average flow influent to the sewage treatment plant reaches 95 percent of the design capacity authorized in this permit for each month of any three consecutive month period. The written notice shall be submitted within 30 days and the plan of action shall be received at the DEQ Regional Office **no later than 90 days from the third consecutive month for which the flow reached 95 percent of the design capacity.** The plan shall include the necessary steps and a prompt schedule of implementation for controlling any current or reasonably anticipated problem resulting from high influent flows. Failure to submit an adequate plan in a timely manner shall be deemed a violation of this permit.

15. PCB Discharge Prohibition

There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. Compliance by EPA Method 608.

16. Metals Cleaning Waters Discharge Prohibition

There shall be no discharge of metal cleaning wastewater to State waters. Following metal cleaning activities, the neutralization basin may be filled with water or wastewater and the entire contents discharged to the scrubber ponds for use as make-up water to the flue gas desulfurization system.

17. Application Requirement

In accordance with Part II. M. of this permit, a new and complete permit application shall be submitted for the reissuance of this permit.

Application Due: No later than December , 2021

C. STORM WATER MANAGEMENT CONDITIONS

1. Stormwater Management Evaluation

a. The Stormwater Pollution Prevention Plan (SWPPP), which is to be developed and maintained in accordance with subsection 3 below, shall have a goal of reducing pollutants discharged from all the regulated stormwater outfalls. One goal of the SWPPP shall place emphasis on reducing, to the maximum extent practicable, the following pollutants in the outfalls noted below.

OUTFALL NO.	POLLUTANTS	COMPARATIVE VALUE
004, 005, 006, 007 and 008	Total Recoverable Iron	1.0 mg/L

b. The effectiveness of the SWPPP will be evaluated via the required monitoring for all parameters listed in Part I A of this permit for the regulated stormwater outfalls, including the specific pollutants noted above. Monitoring results that are above the comparative value for the specific pollutants above will justify the need to reexamine the effectiveness of the SWPPP and any best management practices (BMPs) being utilized for the affected outfalls. In addition, the permittee shall amend the SWPPP whenever there is a change in the facility or its operation that materially increases the potential for activities to result in a discharge of significant amounts of pollutants.

c. Exceedance of a benchmark concentration does not constitute a violation of this permit and does not indicate that violation of a water quality standard has occurred; however, it does signal that SWPPP practices shall be revised and implemented.

2. General Storm Water Special Conditions

a. Sample Type.
For all stormwater monitoring required in Part I A or other applicable sections of this permit, a minimum of one grab sample shall be taken. Unless otherwise specified, all such samples shall be collected from the discharge resulting from a storm event that occurs at least 72 hours from the previously measurable storm event (a "measurable storm event" is defined as a storm event that results in an actual discharge from the site). The required 72-hour storm event interval is waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken

during the first three hours of the discharge, and the permittee shall submit with the monitoring report a description of why a grab sample during the first 30 minutes was impracticable. If stormwater discharges associated with industrial activity commingle with process or non-process water, then where practicable permittees must attempt to sample the stormwater discharge before it mixes with the non-stormwater discharge.

b. Recording of Results.
For each measurement or sample taken pursuant to the storm event monitoring requirements of this permit, the permittee shall record and report with the Discharge Monitoring Reports (DMRs) the following information:
(1) The date and duration (in hours) of the storm event(s) sampled;
(2) The rainfall total (in inches) of the storm event which generated the sampled discharge; and
(3) The duration between the storm event sampled and the end of the previous measurable storm event.

c. Sampling Waiver.
When a permittee is unable to collect stormwater samples required in Part I A or other applicable sections of this permit within a specified sampling period due to adverse climatic conditions, the permittee shall collect a substitute sample from a separate qualifying event in the next period and submit these data along with the data for the routine sample in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

d. Representative outfalls – substantially identical discharges.
If the facility has two or more outfalls that discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and stormwater management practices occurring within the drainage areas of the outfalls, the permittee may conduct monitoring on the effluent of just one of the outfalls and report that the observations also apply to the substantially identical outfall(s). The substantially identical outfall monitoring provisions apply to quarterly visual monitoring, benchmark monitoring and impaired waters monitoring. The substantially identical outfall monitoring provisions are not available for numeric effluent limits monitoring.

The permittee shall include the following information in the SWPPP:
(1) The locations of the outfalls;
(2) Why the outfalls are expected to discharge substantially identical effluents, including evaluation of monitoring data, where available; and,
(3) Estimates of the size of the drainage area (in square feet) for each of the outfalls.

e. Quarterly Visual Examination of Stormwater Quality.
(1) The permittee must perform and document a quarterly visual examination of a stormwater discharge associated with industrial activity from each outfall, except discharges exempted below. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December. The visual examination shall be made during normal working hours. If no storm event resulted in runoff from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no runoff occurred. The documentation must be signed and certified in accordance

with Part II K (Signatory Requirements in Conditions Applicable to All VPDES Permits) of this permit.

(2) Visual examinations must be made of samples collected in accordance with Part C.2.a. The examination must document observations of olor, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution. The examination must be conducted in a well-lit area. No analytical tests are required to be performed on the samples.

(3) The visual examination reports must be maintained on-site with the Stormwater Pollution Prevention Plan (SWPPP). The report must include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the stormwater discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution), and probable sources of any observed stormwater contamination.

f. Allowable Non-Storm Water Discharges

(1) The following non-stormwater discharges are authorized by this permit:

(a) Discharges from firefighting activities;
(b) Fire hydrant/water line flushings;
(c) Potable water including water line flushings;
(d) Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
(e) Irrigation drainage;
(f) Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
(g) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
(h) Routine external building washdown which does not use detergents;
(i) Uncontaminated ground water or spring water;
(j) Foundation or footing drains where flows are not contaminated with process materials;
(k) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains);
(l) Makeup water storage tank water (provided chlorine is non-detectable);
(m) Condensate storage tank water; and
(n) Uncontaminated demineralized water

(2) All other non-stormwater discharges are not authorized and shall either be eliminated or covered under a separate VPDES permit.

g. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

The discharge of hazardous substances or oil in the storm water discharge(s) from the facility shall be prevented or minimized in accordance with the storm water pollution prevention plan for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 or § 62.1-44.34:19 of the Code of Virginia. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period:

(1) The permittee is required to notify the Department in accordance with the requirements of Part II G as soon as he or she has knowledge of the discharge;

(2) Where a release enters a municipal separate storm sewer system (MS4), the permittee shall also notify the owner or the MS4; and
(3) The storm water pollution prevention plan required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

h. Water Quality Protection
The discharges authorized by this permit shall be controlled as necessary to meet applicable water quality standards. DEQ expects that compliance with the conditions in this permit will control discharges as necessary to meet applicable water quality standards.

i. Corrective Actions
(1) Data exceeding benchmarks concentration values.
(a) If the benchmark monitoring result exceeds the benchmark concentration value for that parameter, the permittee shall review the SWPPP and modify it as necessary to address any deficiencies that caused the exceedance. Revisions to the SWPPP shall be completed within 30 days after an exceedance is discovered. When control measures need to be modified or added (distinct from regular preventive maintenance of existing control measures described in Part I.C.3.c (Maintenance), implementation shall be completed before the next anticipated storm event if possible, but no later than 60 days after the exceedance is discovered, or as otherwise provided or approved by the DEQ Blue Ridge Regional Office. In cases where construction is necessary to implement control measures, the permittee shall include a schedule in the SWPPP that provides for the completion of the control measures as expeditiously as practicable, but no later than three years after the exceedance is discovered. Where a construction compliance schedule is included in the SWPPP, the plan shall include appropriate nonstructural and temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure. Any control measure modifications shall be documented and dated, and retained with the SWPPP, along with the amount of time taken to modify the applicable control measure or implement additional control measures.
(b) Natural background pollutant levels. If the concentration of a pollutant exceeds a benchmark concentration value, and the permittee determines that exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background, corrective action is not required provided that:
(i) The concentration of the benchmark monitoring result is less than or equal to the concentration of that pollutant in the natural background;
(ii) The permittee documents and maintains with the SWPPP the supporting rationale for concluding that benchmark exceedances are in fact attributable solely to natural background pollutant levels. The supporting rationale shall include any data previously collected by the facility or others (including literature studies) that describe the levels of natural background pollutants in the facility's stormwater discharges; and
(iii) The permittee notifies the DEQ Blue Ridge Regional Office on the DMR that the benchmark exceedances are attributable solely to natural background pollutant levels.
Natural background pollutants include those substances that are naturally occurring in soils or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity on the facility's site, or pollutants in run-on from neighboring sources which are not naturally occurring.
(2) Corrective actions. The permittee shall take corrective action whenever:

(a) Routine facility inspections, comprehensive site compliance evaluations, inspections by local, state or federal officials, or any other process, observation or event result in a determination that modifications to the stormwater control measures are necessary to meet the permit requirements; or

(b) There is any exceedance of an effluent limitation (including coal pile runoff), or TMDL wasteload allocation; or

(c) The DEQ Blue Ridge Regional Office determines, or the permittee becomes aware, that the stormwater control measures are not stringent enough for the discharge to meet applicable water quality standards.

The permittee shall review the SWPPP and modify it as necessary to address any deficiencies. Revisions to the SWPPP shall be completed within 30 days following the discovery of the deficiency. When control measures need to be modified or added (distinct from regular preventive maintenance of existing control measures described in Part I.C.3.c (Maintenance), implementation shall be completed before the next anticipated storm event if possible, but no later than 60 days after the deficiency is discovered, or as otherwise provided or approved by the DEQ Blue Ridge Regional Office. In cases where construction is necessary to implement control measures, the permittee shall include a schedule in the SWPPP that provides for the completion of the control measures as expeditiously as practicable, but no later than three years after the deficiency is discovered. Where a construction compliance schedule is included in the SWPPP, the plan shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure. The amount of time taken to modify a control measure or implement additional control measures shall be documented in the SWPPP.

Any corrective actions taken shall be documented and retained with the SWPPP. Reports of corrective actions shall be signed in accordance with Part II K (Signatory Requirements).

(3) Follow-up reporting. If at any time monitoring results indicate that discharges from the facility exceed an effluent limitation or a TMDL wasteload allocation, or the DEQ Blue Ridge Regional Office determines that discharges from the facility are causing or contributing to an exceedance of a water quality standard, immediate steps shall be taken to eliminate the exceedances in accordance with the above Part I.C.2.i.2 (Corrective actions). Within 30 calendar days of implementing the relevant corrective action(s) an exceedance report shall be submitted to the DEQ Blue Ridge Regional Office. The following information shall be included in the report: permit number; facility name, address and location; receiving water; monitoring data from this event; an explanation of the situation; description of what has been done and the intended actions (should the corrective actions not yet be complete) to further reduce pollutants in the discharge; and an appropriate contact name and phone number.

j. Additional Requirements for Salt Storage.

Storage piles of salt or piles containing salt used for deicing or other commercial or industrial purposes shall be enclosed or covered to prevent exposure to precipitation. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. All salt storage piles shall be located on an impervious surface. All runoff from the pile, and/or runoff that comes in contact with salt, including under drain systems, shall be collected and contained within a bermed basin lined with concrete or other impermeable materials, or within an underground storage tank(s), or within an above ground storage tank(s), or disposed of through a sanitary sewer (with the permission of the treatment facility). A combination of any or all of these methods may be used. In no case shall salt contaminated storm water be allowed to discharge directly to the ground or to state waters.

3. Storm Water Pollution Prevention Plan

A SWPPP is required to be maintained and implemented for the facility. The plan shall include Best Management Practices (BMPs) that are reasonable, economically practicable, and appropriate in light of current industry practices. The BMPs shall be selected, designed, installed, implemented and maintained in accordance with good engineering practices to eliminate or reduce the pollutants in all storm water discharges from the facility. The plan shall also include any control measures necessary for the storm water discharges to meet applicable water quality standards.

The SWPPP requirements of this permit may be fulfilled, in part, by incorporating by reference other plans or documents such as a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act, or best management practices (BMP) programs otherwise required for the facility, provided that the incorporated plan meets or exceeds the plan requirements of section b. below (Contents of the Plan). All plans incorporated by reference into the SWPPP become enforceable under this permit. If a plan incorporated by reference does not contain all of the required elements of the SWPPP of section b. below, the permittee shall develop the missing SWPPP elements and include them in the required plan.

a. Deadlines for Plan Preparation and Compliance.
   (1) The facility shall prepare and implement the plan as expeditiously as practicable, but not later than 270 days from the effective date of the permit.
   (2) Measures That Require Construction. In cases where construction is necessary to implement measures required by the plan, the plan shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of this permit. Where a construction compliance schedule is included in the plan, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.

b. Contents of the Plan.
   The contents of the SWPPP shall comply with the requirements listed below and those in Part I C 4. The plan shall include, at a minimum, the following items:
   (1) Pollution Prevention Team. The plan shall identify the staff individuals by name or title that comprise the facility's storm water pollution prevention team. The pollution prevention team is responsible for assisting the facility or plant manager in developing, implementing, maintaining, revising, and ensuring compliance with the facility's SWPPP. Specific responsibilities of each staff individual on the team shall be identified and listed.
   (2) Site Description. The plan shall include the following:
      (a) Activities at the Facility. A description of the nature of the industrial activities at the facility.
      (b) General Location Map. A general location map (e.g., USGS quadrangle or other map) with enough detail to identify the location of the facility and the receiving waters within one mile of the facility.
      (c) Site Map. A site map identifying the following:
         (i) The size of the property (in acres);
         (ii) The location and extent of significant structures and impervious surfaces (roofs, paved areas and other impervious areas);
         (iii) Locations of all storm water conveyances including ditches, pipes, swales, and inlets, and the directions of storm water flow (use arrows to show which ways storm water will flow);
         (iv) Locations of all existing structural and source control BMPs;
         (v) Locations of all surface water bodies, including wetlands;
         (vi) Locations of potential pollutant sources identified under Part I C 3 b (3);
         (vii) Locations where significant spills or leaks identified under Part I C 3 b (4) have occurred;

(viii) Locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; processing and storage areas; access roads, rail cars and tracks; transfer areas for substances in bulk; and machinery;

(ix) Locations of storm water outfalls and an approximate outline of the area draining to each outfall, and location of municipal storm sewer systems, if the storm water from the facility discharges to them;

(x) Location and description of all non-storm water discharges;

(xi) Location of any storage piles containing salt used for deicing or other commercial or industrial purposes; and

(xii) Locations and sources of runon to the site from adjacent property, where the runon contains significant quantities of pollutants. The permittee shall include an evaluation with the SWPPP of how the quality of the storm water running onto the facility impacts the facility's storm water discharges.

(d) Receiving Waters and Wetlands. The name of all surface waters receiving-discharges from the site, including intermittent streams, dry sloughs, and arroyos. Provide a description of wetland sites that may receive discharges from the facility. If the facility discharges through a municipal separate storm sewer system (MS4), identify the MS4 operator, and the receiving water to which the MS4 discharges.

(3) Summary of Potential Pollutant Sources. The plan shall identify each separate area at the facility where industrial materials or activities are exposed to storm water. Industrial materials or activities include, but are not limited to: material handling equipment or activities, industrial machinery, raw materials, industrial production and processes, intermediate products, byproducts, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For each separate area identified, the description shall include:

(a) Activities in Area. A list of the activities (e.g., material storage, equipment fueling and cleaning, cutting steel beams); and

(b) Pollutants. A list of the associated pollutant(s) or pollutant constituents (e.g., crankcase oil, zinc, sulfuric acid, cleaning solvents, etc.) for each activity. The pollutant list shall include all significant materials handled, treated, stored or disposed that have been exposed to storm water in the three years prior to the date this SWPPP was prepared or amended. The list shall include any hazardous substances or oil at the facility.

(4) Spills and Leaks. The SWPPP shall clearly identify areas where potential spills and leaks that can contribute pollutants to storm water discharges can occur and their corresponding outfalls. The plan shall include a list of significant spills and leaks of toxic or hazardous pollutants that actually occurred at exposed areas, or that drained to a storm water conveyance during the three-year period prior to the date this SWPPP was prepared or amended. The list shall be updated if significant spills or leaks occur in exposed areas of the facility during the term of the permit. Significant spills and leaks include releases of oil or hazardous substances in excess of reportable quantities, and may also include releases of oil or hazardous substances that are not in excess of reporting requirements.

(5) Storm Water Controls.

(a) BMPs shall be implemented for all the areas identified in **Part I C 3 b (3)** (Summary of Potential Pollutant Sources) to prevent or control pollutants in storm water discharges from the facility. All reasonable steps shall be taken to control or address the quality of discharges from the site that may not originate at the facility. The SWPPP shall describe the type, location and implementation of all BMPs for each area where industrial materials or activities are exposed to storm water. Selection of BMPs shall take into consideration:

(i) That preventing storm water from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from storm water;
(ii) BMPs generally shall be used in combination with each other for most effective water quality protection;
(iii) Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures;
(iv) That minimizing impervious areas at the facility can reduce runoff and improve groundwater recharge and stream base flows in local streams (however, care must be taken to avoid ground water contamination);
(v) Flow attenuation by use of open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows;
(vi) Conservation or restoration of riparian buffers will help protect streams from storm water runoff and improve water quality; and
(vii) Treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.

(b) Control Measures. The permittee shall implement the following types of BMPs to prevent and control pollutants in the storm water discharges from the facility, unless it can be demonstrated and documented that such controls are not relevant to the discharges (e.g., there are no storage piles containing salt).

(i) Good Housekeeping. The permittee shall keep clean all exposed areas of the facility that are potential sources of pollutants to storm water discharges. Typical problem areas include areas around trash containers, storage areas loading docks, and vehicle fueling and maintenance areas. The plan shall include a schedule for regular pickup and disposal of waste materials, along with routine inspections for leaks and conditions of drums, tanks and containers. The introduction of raw, final or waste materials to exposed areas of the facility shall be minimized to the maximum extent practicable. The generation of dust, along with off-site vehicle tracking of raw, final or waste materials, or sediments, shall be minimized to the maximum extent practicable..

(ii) Eliminating and Minimizing Exposure. To the extent practicable, industrial materials and activities shall be located inside, or protected by a storm-resistant covering to prevent exposure to rain, snow, snowmelt, and runoff. Note: Eliminating exposure at all industrial areas may make the facility eligible for the "Conditional Exclusion for No Exposure" provision of 9 VAC 25-31-120 E, thereby eliminating the need to have a permit.

(iii) Preventive Maintenance. The permittee shall have a preventive maintenance program that includes regular inspection, testing, maintenance and repairing of all industrial equipment and systems to avoid breakdowns or failures that could result in leaks, spill and other releases. This program is in addition to the specific BMP maintenance required under **Part I C 2 c** (Maintenance of BMPs).

(iv) Spill Prevention and Response Procedures. The plan shall describe the procedures that will be followed for preventing and responding to spills and leaks.

(A) Preventive measures include barriers between material storage and traffic areas, secondary containment provisions, and procedures for material storage and handling.

(B) Response procedures shall include notification of appropriate facility personnel, emergency agencies, and regulatory agencies, and procedures for stopping, containing and cleaning up spills. Measures for cleaning up hazardous material spills or leaks shall be consistent with applicable RCRA regulations at 40 CFR Part 264 and 40 CFR Part 265. Employees who may cause, detect or respond to a spill or leak shall be trained in these procedures and have necessary spill response equipment available. If possible, one of these individuals shall be a member of the Pollution Prevention Team.

(C) Contact information for individuals and agencies that must be notified in the event of a spill shall be included in the SWPPP, and in other locations where it will be readily available.

(v) Routine Facility Inspections. Facility personnel who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at the facility, and who can also evaluate the effectiveness of BMPs shall regularly inspect all areas of the facility where industrial materials or activities are exposed to storm water. These inspections are in addition to, or as part of, the comprehensive site evaluation required under **Part I C 3 d**. At least one member of the Pollution Prevention Team shall participate in the routine facility inspections.

The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit or written approval is received from the Department for less frequent intervals. At least once each calendar year, the routine facility inspection must be conducted during a period when a storm water discharge is occurring.

Any deficiencies in the implementation of the SWPPP that are found shall be corrected as soon as practicable, but not later than within 30 days of the inspection, unless permission for a later date is granted in writing by the Director. The results of the inspections shall be documented in the SWPPP, along with the date(s) and description(s) of any corrective actions that were taken in response to any deficiencies or opportunities for improvement that were identified.

(vi) Employee Training. The permittee shall implement a storm water employee training program for the facility. The SWPPP shall include a schedule for all types of necessary training, and shall document all training sessions and the employees who received the training. Training shall be provided for all employees who work in areas where industrial materials or activities are exposed to storm water, and for employees who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel, etc.). The training shall cover the components and goals of the SWPPP, and include such topics as spill response, good housekeeping, material management practices, BMP operation and maintenance, etc. The SWPPP shall include a summary of any training performed.

(vii) Sediment and Erosion Control. The plan shall identify areas at the facility that, due to topography, land disturbance (e.g., construction, landscaping, site grading), or other factors, have a potential for soil erosion. The permittee shall identify and implement structural, vegetative, and/or stabilization BMPs to prevent or control on-site and off-site erosion and sedimentation. Flow velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel if the flows would otherwise create erosive conditions.

(viii) Management of Runoff. The plan shall describe the storm water runoff management practices (i.e., permanent structural BMPs) for the facility. These types of BMPs are typically used to divert, infiltrate, reuse, or otherwise reduce pollutants in storm water discharges from the site.

Structural BMPs may require a separate permit under § 404 of the CWA and the Virginia Water Protection Permit Program Regulation (9 VAC 25-210) before installation begins.

c. Maintenance.

All BMPs identified in the SWPPP shall be maintained in effective operating condition. Storm water BMPs identified in the SWPPP shall be observed during active operation (i.e., during a storm water runoff event) to ensure that they are functioning correctly. Where discharge locations are inaccessible, nearby downstream locations shall be observed. The observations shall be documented in the SWPPP.

The SWPPP shall include a description of procedures and a regular schedule for preventive maintenance of all BMPs, and shall include a description of the back-up practices that are in place should a runoff event occur while a BMP is off-line. The effectiveness of nonstructural BMPs shall also be maintained by appropriate means (e.g., spill response supplies available and personnel trained, etc.).

If site inspections required by **Part I C 3 b(5)(b)(v)** (Routine Facility Inspections) or **Part I C 3 d** (Comprehensive Site Compliance Evaluation) identify BMPs that are not operating effectively, repairs or maintenance shall be performed before the next anticipated storm event. If maintenance prior to the next anticipated storm event is not possible, maintenance shall be scheduled and accomplished as soon as practicable. In the interim, back-up measures shall be employed and documented in the SWPPP until repairs or maintenance is complete. Documentation shall be kept with the SWPPP of maintenance and repairs of BMPs, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair or replacement, and for repairs, date(s) that the BMP(s) returned to full function, and the justification for any extended maintenance or repair schedules.

d. Comprehensive Site Compliance Evaluation.

The permittee shall conduct comprehensive site compliance evaluations at least once a year. The evaluations shall be done by qualified personnel who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at the facility, and who can also evaluate the effectiveness of BMPs. The personnel conducting the evaluations may be either facility employees or outside constituents hired by the facility.

(1) Scope of the Compliance Evaluation. Evaluations shall include all areas where industrial materials or activities are exposed to storm water, as identified in **Part I C 3 b(3)**. The personnel shall evaluate:

(a) Industrial materials, residue or trash that may have or could come into contact with storm water;

(b) Leaks or spills from industrial equipment, drums, barrels, tanks or other containers that have occurred within the past three years;

(c) Off-site tracking of industrial or waste materials or sediment where vehicles enter or exit the site;

(d) Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas;

(e) Evidence of, or the potential for, pollutants entering the drainage system~~.~~;

(f) Evidence of pollutants discharging to surface waters at all facility outfalls, and the condition of and around the outfall, including flow dissipation measures to prevent scouring;

(g) Review of training performed, inspections completed, maintenance performed, quarterly visual examinations, and effective operation of BMPs;

(h) Results of both visual and any analytical monitoring done during the past year shall be taken into consideration during the evaluation.

(2) Based on the results of the evaluation, the SWPPP shall be modified as necessary (e.g., show additional controls on the map required by **Part I C 3 b(2)(c)**; revise the description of controls required by **Part I C 3 b(5)** to include additional or modified BMPs designed to correct problems identified). Revisions to the SWPPP shall be completed within 30 days following the evaluation, unless permission for a later date is granted in writing by the Director. If existing BMPs need to be modified or if additional BMPs are necessary, implementation shall be completed before the next anticipated storm event, if practicable, but not more than 60 days after completion of the comprehensive site evaluation, unless permission for a later date is granted in writing by the Department;

(3) Compliance Evaluation Report. A report shall be written summarizing the scope of the evaluation, name(s) of personnel making the evaluation, the date of the evaluation, and all observations relating to the implementation of the SWPPP, including elements stipulated in **Part I C 3 d(1) (a) through (f)** above. Observations shall include such things as: the location(s) of

discharges of pollutants from the site; location(s) of previously unidentified sources of pollutants; location(s) of BMPs that need to be maintained or repaired; location(s) of failed BMPs that need replacement; and location(s) where additional BMPs are needed. The report shall identify any incidents of noncompliance that were observed. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the SWPPP and this permit. The report shall be signed in accordance with Part II K and maintained with the SWPPP.

(4) Where compliance evaluation schedules overlap with routine inspections required under **Part I C 3 b(5)(b)(v)**, the annual compliance evaluation may be used as one of the routine inspections.

e. Signature and Plan Review.

(1) Signature/Location. The SWPPP shall be signed in accordance with Part II K, dated, and retained on-site at the facility covered by this permit in accordance with Part II B 2. All other changes to the SWPPP, and other permit compliance documentation, must be signed and dated by the person preparing the change or documentation.

(2) Availability. The permittee shall make the SWPPP, annual site compliance evaluation report, and other information available to the Department upon request.

(3) Required Modifications. The Director may notify the permittee at any time that the SWPPP, BMPs, or other components of the facility's storm water program do not meet one or more of the requirements of this permit. The notification shall identify specific provisions of the permit that are not being met, and may include required modifications to the storm water program, additional monitoring requirements, and special reporting requirements. The permittee shall make any required changes to the SWPPP within 60 days of receipt of such notification, unless permission for a later date is granted in writing by the Director, and shall submit a written certification to the Director that the requested changes have been made.

f. Maintaining an Updated SWPPP.

(1) The permittee shall review and amend the SWPPP as appropriate whenever:

(a) There is construction or a change in design, operation, or maintenance at the facility that has a significant effect on the discharge, or the potential for the discharge, of pollutants from the facility;

(b) Routine inspections or compliance evaluations determine that there are deficiencies in the BMPs;

(c) Inspections by local, state, or federal officials determine that modifications to the SWPPP are necessary;

(d) There is a spill, leak or other release at the facility; or

(e) There is an unauthorized discharge from the facility.

(2) SWPPP modifications shall be made within 30 calendar days after discovery, observation or event requiring a SWPPP modification. Implementation of new or modified BMPs (distinct from regular preventive maintenance of existing BMPs described in **Part I C 3 b(5)(b)(iii)**) shall be initiated before the next storm event if possible, but no later than 60 days after discovery, or as otherwise provided or approved by the Director. The amount of time taken to modify a BMP or implement additional BMPs shall be documented in the SWPPP.

(3) If the SWPPP modification is based on a release or unauthorized discharge, include a description and date of the release, the circumstances leading to the release, actions taken in response to the release, and measures to prevent the recurrence of such releases. Unauthorized releases and discharges are subject to the reporting requirements of Part II G of this permit.

4. Sector-Specific Storm Water Pollution Prevention Plan Requirements

The requirements listed under this section apply to storm water discharges associated with industrial activity from steam electric power generating facilities using coal, natural gas, oil, nuclear energy, etc. to produce a steam source, including coal handling areas (Industrial Activity Code "O").

Storm water discharges from ancillary facilities (e.g., fleet centers, gas turbine stations, and substations) that are not contiguous to a steam electric power generating facility are not covered by this permit. Heat capture/heat recovery combined cycle generation facilities are also not covered by this permit; however, dual fuel co-generation facilities that generate electric power are included.

In addition to the requirements of Part I.C.3., the SWPPP shall include, at a minimum, the following items:

a. Site Description

Site Map. The site map shall identify the locations of any of the following activities or sources that may be exposed to precipitation or surface runoff: storage tanks, scrap yards, general refuse areas; short and long term storage of general materials (including, but not limited to: supplies, construction materials, plant equipment, oils, fuels, used and unused solvents, cleaning materials, paint, water treatment chemicals, fertilizer, and pesticides); landfills; construction sites; and stock pile areas (such as coal or limestone piles).

b. Stormwater Controls.

(1) Good Housekeeping Measures.

(a) Fugitive Dust Emissions. The permittee shall describe and implement measures that prevent or minimize fugitive dust emissions from coal and ash handling areas. The permittee shall minimize off-site tracking of coal dust and ash. Control measures to consider include installing specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.

(b) Delivery Vehicles. The plan shall describe measures that prevent or minimize contamination of stormwater runoff from delivery vehicles arriving on the plant site. At a minimum the permittee shall consider the following:

(i) Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and
(ii) Develop procedures to deal with leakage and spillage from vehicles or containers.

(c) Fuel Oil Unloading Areas. The plan shall describe measures that prevent or minimize contamination of precipitation or surface runoff from fuel oil unloading areas. At a minimum the permittee shall consider using the following measures, or an equivalent:

(i) Use of containment curbs in unloading areas;
(ii) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks and spills are immediately contained and cleaned up; and
(iii) Use of spill and overflow protection (e.g., drip pans, drip diapers, or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).

(d) Chemical Loading and Unloading Areas. The permittee shall describe and implement measures that prevent or minimize the contamination of precipitation or surface runoff from chemical loading and unloading areas. At a minimum the permittee shall consider using the following measures (or their equivalents):

(i) Use of containment curbs at chemical loading and unloading areas to contain spills;

(ii) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks or spills are immediately contained and cleaned up; and
(iii) Covering chemical loading and unloading areas, and storing chemicals indoors.

(e) Miscellaneous Loading and Unloading Areas. The permittee shall describe and implement measures that prevent or minimize the contamination of stormwater runoff from loading and unloading areas. The permittee shall consider the following, at a minimum (or their equivalents):

(i) covering the loading area;
(ii) grading, berming, or curbing around the loading area to divert run-on; or
(iii) locating the loading and unloading equipment and vehicles so that leaks are contained in existing containment and flow diversion systems.

(f) Liquid Storage Tanks. The permittee shall describe and implement measures that prevent or minimize contamination of stormwater runoff from aboveground liquid storage tanks. At a minimum the permittee shall consider employing the following measures (or their equivalents):

(i) Use of protective guards around tanks;
(ii) Use of containment curbs;
(iii) Use of spill and overflow protection; and
(iv) Use of dry cleanup methods.

(g) Large Bulk Fuel Storage Tanks. The permittee shall describe and implement measures that prevent or minimize contamination of stormwater runoff from large bulk fuel storage tanks. At a minimum the permittee shall consider employing containment berms (or its equivalent). The permittee shall also comply with applicable state and federal laws, including Spill Prevention Control and Countermeasures (SPCC).

(h) Spill Reduction Measures. The permittee shall describe and implement measures to reduce the potential for an oil or chemical spill, or reference the appropriate section of their SPCC plan. The structural integrity of all aboveground tanks, pipelines, pumps and other related equipment shall be visually inspected as part of the routine facility inspection. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(i) Oil bearing Equipment in Switchyards. The permittee shall describe and implement measures to prevent or minimize contamination of surface runoff from oil bearing equipment in switchyard areas. The permittee shall consider the use of level grades and gravel surfaces to retard flows and limit the spread of spills, and the collection of stormwater runoff in perimeter ditches.

(j) Residue Hauling Vehicles. All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the container body. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds shall be repaired as soon as practicable.

(k) Ash Loading Areas. The permittee shall describe and implement procedures to reduce or control the tracking of ash and residue from ash loading areas. Where practicable, clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water before departure of each loaded vehicle.

(l) Areas Adjacent to Disposal Ponds or Landfills. The permittee shall describe and implement measures that prevent or minimize contamination of stormwater runoff from areas adjacent to disposal ponds or landfills. The permittee shall develop procedures to:

(i) Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and
(ii) Reduce ash residue on exit roads leading into and out of residue handling areas.

(m) Landfills, Scrapyards, Surface Impoundments, Open Dumps, General Refuse Sites. The plan shall address and include appropriate control measures to minimize the potential for contamination of runoff from landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(n) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains);

(o) Makeup water storage tank water (provided chlorine is non detectable); and

(p) Condensate storage tank water.

D. §316(b) PHASE II RULE, COOLING WATER INTAKE STRUCTURES AT EXISTING FACILITIES

1. Interim §316(b) Best Technology Available (BTA)

The permittee shall implement interim Best Technology Available (BTA) measures to minimize impingement and entrainment (I&E) mortality and adverse impacts. The following interim BTA measures are to be employed throughout the term of this permit: six submerged cylindrical wedgewire screens.

2. Impingement and Entrainment Control Technology Preventative Maintenance

The Operations and Maintenance (O&M) Manual for the permitted facility shall include a description of procedures and a regular schedule for preventative maintenance of all impingement and entrainment (I&E) control technologies and measures, and shall include a description of mitigation protocols and practices to implement should a water withdrawal event occur while an I&E technology or measure is off-line. The O&M Manual shall be updated to incorporate the information required by this condition by no later than 90 days following the effective date of this permit. All I&E control technologies and measures shall be maintained in effective operating condition. The permittee shall maintain documentation of maintenance and repairs of I&E control technologies and measures, including, but not limited to: the date(s) of regular maintenance, date(s) of discovery of areas in need of repair or replacement, date(s) for repairs, and date(s) the control technologies returned to full function.

3. Alternate Schedule for Submittal of 40 CFR §122.21(r) Information

The permittee shall, by no later than 270 days prior to the expiration date of this permit, submit to the DEQ Regional Office all applicable information described in 40CFR §122.21(r).

4. Visual or Remote Inspections

The permittee shall conduct visual inspections or employ remote monitoring devices during the period any cooling water intake structure is in operation. Inspections shall be conducted no less frequently

than weekly to ensure that any technologies operated to comply with impingement mortality and entrainment requirements, any additional measures necessary to protect listed threatened and endangered species and designated critical habitat, and other standards for minimizing adverse environmental impact as established in this permit, are maintained and operated to function as designed.

Inspection documentation shall include at a minimum:

(a) Date, time, and location of the inspection or remote monitoring period;
(b) The name(s) and signature(s) of the inspector(s);
(c) A description of water withdrawal volumes or rates occurring at the time of the inspection;
(d) Where available, head loss across the intake screen(s);
(e) If adverse weather conditions exist, a description of the adverse weather conditions;
(f) Any technologies needing maintenance, repair, or replacement;

The requirement to conduct visual or remote inspections is waived when no water is withdrawn through all cooling water intake structures during an entire inspection period. For each cooling water intake structure, the permittee shall document the date(s) when no water is withdrawn through the respective intake structure.

When adverse weather conditions prevent visual inspections or remote monitoring from being safely conducted during a given inspection period, the visual inspection or remote monitoring requirements may be waived provided the permittee prepares documentation explaining the reasons why a visual inspection or remote monitoring could not be safely conducted. Adverse weather conditions are those that are dangerous or create inaccessibility for personnel, and may include such events as local flooding, high winds, electrical storms, or situations that otherwise make an inspection impracticable, such as drought or extended frozen conditions.

Any deficiencies found during a visual inspection or remote monitoring event shall be corrected as soon as possible, but no later than 30 days following discovery, unless permission for a later date is granted by DEQ in writing.

All documentation relating to visual inspections or remote monitoring, or the inability to safely conduct such monitoring due to adverse weather conditions, shall be signed and certified in accordance with Part II.K of this permit and shall be made available to DEQ personnel for review during facility inspections or no later than 30 days following receipt of a request by DEQ.

5. Annual Certification Statement Requirements

The permittee shall annually prepare a written statement certifying either: a) operations of any unit at the permitted facility that impacts cooling water withdrawals or operation of any cooling water intake structure have been substantially modified, or b) no substantial changes have occurred in the operations of any unit at the permitted facility that impacts cooling water withdrawals or operation of any cooling water intake structure.

If substantially modified operations have occurred, the permittee must provide with the annual certification statement a summary of those changes. In addition, the permittee must submit revisions to the information required at 40 CFR §122.21(r) with the next application for reissuance of this permit.
Certification statements shall be signed in accordance with Part II.K of this permit and submitted to the DEQ Blue Ridge Regional Office by no later than each February 10 for the period covering the preceding calendar year.

6. Measures to protect Federally-listed Threatened or Endangered (T&E) species, designated critical habitat, and fragile species or shellfish

The permittee shall operate each cooling water intake structure and cooling system in a manner designed to minimize incidental take, reduce or remove more than minor detrimental effects to Federally-listed threatened, endangered, or fragile species and designated critical habitat, including prey base.

The permittee shall prepare, on a calendar year basis, a report providing an assessment of the efficiency/effectiveness of the facility's control measures. The report shall include a compilation of all federally-listed threatened or endangered species found to have been taken by a cooling water intake structure during the reporting year. For each federally-listed species taken, the report shall include the following data at a minimum:

- Species name (to include both the Latin and common name);
- Federal listed status (e.g., threatened, endangered, or other);
- Total number of organisms taken by life stage cycle (egg, larva, juvenile, adult);
- Method of take (impingement, entrainment, or other);
- Results of the take (death, injury, or other); and
- The take estimated by the federal Fishery Services when a federal incidental take authorization was granted.

The assessments and compiled data shall be submitted to the DEQ-Regional Office by no later than each February 10 for the preceding calendar year.

7. Federal Endangered Species Act Compliance

Nothing in this permit authorizes take for the purposes of a facility's compliance with the Endangered Species Act.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements required by this permit shall be taken at the permit designated or approved location and be representative of the monitored activity.
   a. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
   b. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.
   c. Samples taken shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.
2. Any pollutant specifically addressed by this permit that is sampled or measured at the permit designated or approved location more frequently than required by this permit shall meet the requirements in A.1.a -c. above and the results of this monitoring shall be included in the calculations and reporting required by this permit.
3. Operational or process control samples or measurements shall not be taken at the designated permit sampling or measurement locations. Operational or process control samples or measurements do not need to follow procedures approved under Title 40 Code of Federal Regulations Part 136 or be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records

1. Records of monitoring information shall include:
   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) and time(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.
2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Virginia Department of Environmental Quality
   Blue Ridge Regional Office
   3019 Peters Creek Road
   Roanoke, VA 24019
2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.
3. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II.F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II.F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

H. Reports of Unusual or Extraordinary Discharges (continued)

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.
2. A written report shall be submitted within 5 days and shall contain:
   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.
3. The permittee shall report all instances of noncompliance not reported under Parts II.I.1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II.G, H and I may be made to the Department's Regional Office at (540) 562-6700 (voice), (540) 562-6725 (fax), or online at http://www.deq.virginia.gov/Programs/PollutionResponsePreparedness/MakingaReport.aspx. For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
      (1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
      (2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;
   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. Applications. All permit applications shall be signed as follows:
   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
   b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
   c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
   a. The authorization is made in writing by a person described in Part II.K.1;
   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
   c. The written authorization is submitted to the Department.
3. Changes to authorization. If an authorization under Part II.K.2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.
4. Certification. Any person signing a document under Parts II.K.1 or 2 shall make the following certification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or

L. Duty to Comply (continued)
prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply
If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit
This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law
Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U), and "upset" (Part II.V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance
The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges
Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate
The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense
It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II.U.2 and U.3.
2. Notice
   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.
3. Prohibition of bypass.
   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
      (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
      (3) The permittee submitted notices as required under Part II.U.2.
   b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
   a. An upset occurred and that the permittee can identify the cause(s) of the upset;
   b. The permitted facility was at the time being properly operated;
   c. The permittee submitted notice of the upset as required in Part II.I; and
   d. The permittee complied with any remedial measures required under Part II.S.
3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.
2. As an alternative to transfers under Part II.Y.1, this permit may be automatically transferred to a new permittee if:
   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

REC'D JAN 21 2011 ABF

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Blue Ridge Regional Office

www.deq.virginia.gov

Douglas W. Domenech
Secretary of Natural Resources

David K. Paylor
Director

Robert J. Weld
Regional Director

Lynchburg Office
7705 Timberlake Road
Lynchburg, Virginia 24502
(434) 582-5120
Fax (434) 582-5125

Roanoke Office
3019 Peters Creek Road
Roanoke, Virginia 24019
(540) 562-6700
Fax (540) 562-6725

January 13, 2011

Mr. C. D. Holley
VP Fossil & Hydro Systems Operation
Virginia Electric Power Company & Old Dominion Electric Cooperative
4201 Dominion Boulevard
Glen Allen, VA 23060

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re: Reissuance of VPDES Permit No. VA0083097 – Dominion-Clover Power Station

Dear Mr. Holley:

Your VPDES permit is enclosed along with the final public participation pages of the fact sheet. A Discharge Monitoring Report (DMR) form for each outfall is included with the permit. Please make additional copies of the DMR for future use. The first DMR for the month of **February** is due by **March 10, 2011**. Please send the DMR to:

Department of Environmental Quality
Blue Ridge Regional Office-Lynchburg
7705 Timberlake Road
Lynchburg, VA 24502

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to the period.

Alternatively, any owner under §§62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the state water Control Board taken without formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in §1.23(b) of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

If you have any questions about the permit, please contact Frank Bowman at (434) 582-6207 or by e-mail frank.bowman@deq.virginia.gov.

Sincerely,

Robert J. Weld
Regional Director

Enclosure: Fact Sheet pages, VPDES Permit and DMR for Permit No. VA0083097

cc: OWPP
EPA, Region III-3WP12
VDH RO – 1347 Piney Forest Road, Danville, VA 24540
Ms. Cathy C. Taylor; Director, Electric Environmental Services; Dominion Resources Services, Inc.
BRRO Compliance Auditor
BRRO Permit File

27. **EPA/VIRGINIA DRAFT PERMIT SUBMISSION CHECKLIST:**

SEE ATTACHMENT 14

28. **DEQ PLANNING COMMENTS RECEIVED ON DRAFT PERMIT:** Document any comments received from DEQ planning.

The discharge is not addressed in any planning document but will be included when the plan is updated.

29. **PUBLIC PARTICIPATION:** Document comments/responses received during the public participation process. If comments/responses provided, especially if they result in changes to the permit, place in the attachment.

VDH COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the Virginia Dept. of Health and noted how resolved.

By memo dated July 27, 2010, the VDH provided the following comments: "This permit application contains a proposed treatment facility to remove manganese such that the discharge from current outfalls 002/009 does not exceed 0.05 mg/l. We note that the sample result for outfall 006/007/008 was 5.89 mg/l for manganese. **We recommend that the Public Water Supply Water Quality Standards be maintained in the Public Water Supply stream segments downstream.**" These are storm water outfalls and will be addressed in the SWPPP.

EPA COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the U.S. Environmental Protection Agency and noted how resolved.

EPA has no objections to the adequacy of the draft permit.

ADJACENT STATE COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from an adjacent state and noted how resolved.

Not Applicable.

OTHER AGENCY COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from any other agencies (e.g., VIMS, VMRC, DGIF, etc.) and noted how resolved.

The draft permit was sent to DGIF and no comments were received.

OTHER COMMENTS RECEIVED FROM RIPARIAN OWNERS/CITIZENS ON DRAFT PERMIT: Document any comments received from other sources and note how resolved.

The application and draft permit have received public notice in accordance with the VPDES Permit Regulation, and no comments were received.

PUBLIC NOTICE INFORMATION: Comment Period: **Start Date:** December 9, 2010
End Date: January 10, 2011

Persons may comment in writing or by e-mail to the DEQ on the proposed reissuance of the permit within 30 days from the date of the first notice. Address all comments to the contact person listed below. Written or e-mail comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The Director of the DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing and a brief explanation of how the requestor's interests would be directly and adversely affected by the proposed permit action.

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting Frank Bowman at: Department of Environmental Quality (DEQ), Blue Ridge Regional Office, 7705

Timberlake Road, Lynchburg, VA 24502. Telephone: 434-582-6207 E-mail: frank.bowman@deq.virginia.gov

Following the comment period, the Board will make a determination regarding the proposed reissuance. This determination will become effective, unless the Director grants a public hearing. Due notice of any public hearing will be given.

30. **ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:**

The permittee is current with their annual permit maintenance fees.

31. **SUMMARY OF SPECIFIC ATTACHMENTS LABELED AS:**

Attachment 1 Site Inspection Report/Memorandum
Attachment 2 Discharge Location/Topographic Map
Attachment 3 Schematic/Plans & Specs/Site Map/Water Balance
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COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No.:	VA0083097
Effective Date:	January 13, 2011
Expiration Date:	January 12, 2016

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, and Parts I and II of this permit, as set forth herein.

Owners:	Virginia Electric and Power Company, and Old Dominion Electric Cooperative
Facility Name:	Dominion-Clover Power Station
County:	Halifax
Facility Location:	4091 Clover Road; Clover, VA

The owner is authorized to discharge to the following receiving stream:

Stream:	Roanoke River (Outfalls 001, 002, 004, 005 and 009)
	Black Walnut Creek (Outfalls 003, 006-008 and 011-016)
River Basin:	Roanoke River
River Subbasin:	Roanoke River
Section:	5 (Roanoke River)
	5a (Black Walnut Creek)
Class:	IV (Roanoke River)
	III (Black Walnut Creek)
Special Standards:	PWS

Robert J. Weld, Director, Blue Ridge Regional Office

1/13/2011

Date

COMMONWEALTH of VIRGINIA

Douglas W. Domenech
Secretary of Natural Resources

David K. Paylor
Director

Robert J. Weld
Regional Director

DEPARTMENT OF ENVIRONMENTAL QUALITY

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Roanoke, Virginia 24019
(540) 562-6700
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January 13, 2011

Mr. C. D. Holley
VP Fossil & Hydro Systems Operation
Virginia Electric Power Company & Old Dominion Electric Cooperative
4201 Dominion Boulevard
Glen Allen, VA 23060

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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Sincerely,

Robert J. Weld
Regional Director

Enclosure: Fact Sheet pages, VPDES Permit and DMR for Permit No. VA0083097

cc: OWPP
EPA, Region III-3WP12
VDH RO – 1347 Piney Forest Road, Danville, VA 24540
Ms. Cathy C. Taylor; Director, Electric Environmental Services; Dominion Resources Services, Inc.
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COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No.:	VA0083097
Effective Date:	January 13, 2011
Expiration Date:	January 12, 2016

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, and Parts I and II of this permit, as set forth herein.

Owners:	Virginia Electric and Power Company, and Old Dominion Electric Cooperative
Facility Name:	Dominion-Clover Power Station
County:	Halifax
Facility Location:	4091 Clover Road; Clover, VA

The owner is authorized to discharge to the following receiving stream:

Stream:	Roanoke River (Outfalls 001, 002, 004, 005 and 009) Black Walnut Creek (Outfalls 003, 006-008 and 011-016)
River Basin:	Roanoke River
River Subbasin:	Roanoke River
Section:	5 (Roanoke River) 5a (Black Walnut Creek)
Class:	IV (Roanoke River) III (Black Walnut Creek)
Special Standards:	PWS

Robert J. Weld, Director, Blue Ridge Regional Office

1/13/2011

Date

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 001 (final holding pond).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/l*	lbs/day*	mg/l*	mg/l*	lbs/day*		
Flow (MGD)	NL		NA	NL		1/Day	Estimated
pH (standard units)	NA		6.0	9.0		5 Days/Week	Grab
Temperature (deg. C)	NA		NA	40		5 Days/Week	I.S.
Total Suspended Solids [a]	30	NA	NA	100	NA	1/3 Months	Grab
Oil & Grease (mg/l) [a]	15	NA	NA	20	NA	1/3Months	Grab
Dissolved Oxygen	NA		5.7	NA		5 Days/Week	Grab
Total Petroleum Hydrocarbons	NL	NA	NA	NA		1/Year	Grab

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

"I.S." means immersion stabilization

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31, **due April 10**); 2nd quarter (April 1 - June 30, **due July 10**); 3rd quarter (July 1 - September 30, **due October 10**); 4th quarter (October 1 - December 31, **due January 10**).

1/Year = Between January 1 and December 31, **due January 10 of following year**.

[a] See Part I.D.7. for additional instructions regarding effluent monitoring frequencies.

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 101 (cooling tower blowdown)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/l*	lbs/day*	mg/l*	mg/l*	lbs/day*		
Flow (MGD)	NL		NA	NL		1/Week	Estimated
Free Available Chlorine	0.2	NA	NA	0.5	NA	2/Month	Grab
Total Chromium [a] [b] [c]	0.2	NA	NA	0.2	NA	1/3 Months	Grab
Total Zinc [a] [b] [c]	1.0	NA	NA	1.0	NA	1/3 Months	Grab
The 126 priority pollutants contained in chemicals added for cooling tower maintenance, except chromium and zinc. [c]	Non-detectable.					1/3 Months	Grab

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31, **due April 10**); 2nd quarter (April 1 - June 30, **due July 10**); 3rd quarter (July 1 - September 30, **due October 10**); 4th quarter (October 1 - December 31, **due January 10**).

[a] See Parts I.D.6.a. and I.D.6.b. for quantification levels and reporting requirements, respectively.

[b] See Part I.D.7. for additional instructions regarding effluent monitoring frequencies.

[c] As an alternative to routine monitoring by sample and analysis for the 126 priority pollutants (including chromium and zinc), compliance with the limitations may be determined by engineering calculations submitted by the permittee. The engineering calculations must demonstrate that the regulated pollutants are not detectable in the final discharge by the analytical methods in 40 CFR Part 136.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

3. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 102 (neutralization basin).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/l*	lbs/day*	mg/l*	mg/l*	lbs/day*		
Flow (MGD)	NL		NA	NL		1/Week	Estimated

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 103 (sewage plant discharge).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/l*	lbs/day*	mg/l*	mg/l*	lbs/day*		
Flow (MGD)	NL		NA	NL		5 Days/Week	Estimated
BOD5 [b]	30	NA	NA	45	NA	1/6 Months	Grab
Total Suspended Solids [b]	30	NA	NA	45	NA	1/6 Months	Grab
Total Residual Chlorine [a]	NA	NA	1.5	NA	NA	5 Days/Week	Grab

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30, **due July 10**); 2nd half (July 1 - December 31, **due January 10**).

[a] See Part I.B for additional chlorine monitoring instructions.

[b] See Part I.D.7. for additional instructions regarding effluent monitoring frequencies.

a. The design flow of this treatment facility is 0.013 MGD.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

5. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 002 (storm water runoff holding pond [coal storage, limestone and lime storage and handling, scrubber sludge storage and coal combustion by-product areas]).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/l*	lbs/day*	mg/l*	mg/l*	lbs/day*		
Flow (MGD)	NL		NA	NL		1/Day	Estimated
pH (standard units)	NA		6.0	9.0		2/Month	Grab
Total Suspended Solids	NA	NA	NA	50	NA	2/Month	Grab

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

6. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial numbers 003, 011, 012, 013, 014, 015 and 016 (storm water from regulated SIC code industrial activity areas).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	MINIMUM ug/l*	MAXIMUM ug/l*	FREQUENCY	SAMPLE TYPE
Flow (MG)	NA	NL	1/Year	Estimated [a]
pH (standard units)	NL	NL	1/Year	Grab
Total Suspended Solids (mg/l)	NA	NL	1/Year	Grab
Total Recoverable Iron	NA	NL	1/Year	Grab

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1/Year = Between January 1 and December 31, **due January 10 of following year.**

[a] Estimate of the total volume of the discharge sampled during the storm event.

For outfall 003, the monitoring and reporting in Part I.F.1.a. b. c are not applicable to these outfalls. In addition, the substitute samples required in Part I.F.c are not necessary.

For outfalls 011, 012, 013, 014, 015 and 016, the monitoring and reporting in Part I.F.1.a. and b. are not applicable to these outfalls. In addition, the substitute samples required in Part I.F.c are not necessary.

Outfalls 011, 012, 013, 014, 015, and 016 are substantially identical and a sample at any 1 of the 6 can be considered representative of the remaining 5 outfalls.

For outfalls 014, 015, and 016, no monitoring and reporting requirements are required until the completion of Stage III Phase 2B of the landfill and the initiation of the placement of ash into that phase. (Stormwater is not currently from industrialized areas). At that time, these outfalls will be considered substantially

identical to outfalls 011, 012, and 013.

Samples shall be taken within the first 30 minutes after receiving 0.1 inches of rain if outfall is discharging or within 30 minutes of first flow after receiving 0.1 inches of rain.

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

7. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial numbers 004, 005, 006, 007, 008 (storm water from regulated SIC code industrial activity areas).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	MINIMUM ug/l*	MAXIMUM ug/l*	FREQUENCY	SAMPLE TYPE
Flow (MG)	NA	NL	1/Year	Estimated [a]
pH (standard units)	NL	NL	1/Year	Grab
Total Suspended Solids (mg/l)	NA	NL	1/Year	Grab
Total Recoverable Iron	NA	NL	1/Year	Grab

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/Year = Between January 1 and December 31, **due January 10 of following year**.

[a] Estimate of the total volume of the discharge sampled during the storm event.

Samples shall be taken within the first 30 minutes after receiving 0.1 inches of rain if outfall is discharging or within 30 minutes of first flow after receiving 0.1 inches of rain.

Outfalls 006, 007, and 008 are substantially identical and a sample collected at any 1 of 3 outfalls can be considered representative of the remaining 2 outfalls.

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

8. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 009 (holding pond for storm water runoff and leachate from the Stage III, Phase I landfill, ground water from the underdrain system, leachate and storm water from the Stage I and II landfill and ground water well purge water [future Stage III, Phase II landfill runoff and leachate]).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/l*	lbs/day*	mg/l*	mg/l*	lbs/day*		
Flow (MGD)	NL		NA	NL		1/Day	Estimated
pH (standard units)	NA		6.0	9.0		2/Month	Grab
Total Suspended Solids	NL	NA	NA	50	NA	2/Month	Grab
Total Recoverable Manganese (µg/l)[a][b]	NA		NA	50	NA	1/Month	Grab

* = UNLESS OTHERWISE NOTED NA = NOT APPLICABLE NL = NO LIMIT, MONITORING REQUIREMENT ONLY

[a] See Parts I.D.6.a. and I.D.6.b. for quantification levels and reporting requirements, respectively.

[b] See Part I.C. for Schedule of Compliance. No monitoring or reporting required until after completion of the schedule.

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. GROUND WATER LIMITATIONS AND MONITORING REQUIREMENTS

9. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee shall monitor the ground water from the following site monitoring locations: PW-1 and PW-2 (upgradient wells); PW-3, PW-4, PW-5, PW-6, PW-7 and PW-8 (perimeter wells)

Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	LIMITATIONS	UNITS	MONITORING REQUIREMENTS	
			FREQUENCY	SAMPLE TYPE
Static Water Level	NL	0.01 FT	1/6 Months	Measured
pH (standard units)	NL	SU	1/6 Months	Grab
Specific Conductance	NL	umhos/cm	1/6 Months	Grab
Total Dissolved Solids (TDS)	NL	mg/l	1/6 Months	Grab
Total Organic Carbon (TOC)	NL	mg/l	1/6 Months	Grab
Sulfate	NL	mg/l	1/6 Months	Grab
Dissolved Chromium	NL	mg/l	1/6 Months	Grab
Dissolved Manganese	NL	mg/l	1/6 Months	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30, **due August 10**); 2nd half (July 1 - December 31, **due February 10**).

Grab samples - An individual sample should be taken after three (3) well volumes of ground water are removed (allowing the well to recharge between each well volume removed) or until well purging parameters (i.e. pH, temperature, and specific conductance) stabilize to $\pm$ 10%. The bailer or hose used should not contaminate samples.

B. ADDITIONAL TOTAL RESIDUAL CHLORINE (TRC) LIMITATIONS AND MONITORING REQUIREMENTS – Outfall 103

1. a. The permittee shall monitor the TRC at the outlet of the chlorine contact tank, prior to dechlorination, five days per week by grab sample.

   b. No more than 4 of all samples taken after the chlorine contact tank, prior to dechlorination, shall be less than 1.5 mg/l for any one calendar month.

   c. No TRC sample collected after the chlorine contact tank, prior to dechlorination, shall be less than 0.6 mg/l.

2. If an alternative to chlorination as a disinfection method is chosen, *E. coli* shall be limited and monitored by the permittee as specified below:

	Discharge Limitations	Monitoring Requirements	
	Monthly Average	Frequency	Sample Type
E. coli (n/100 ml)	126*	1/Month	Grab (Between 10 AM & 4 PM)

The above requirements, if applicable, shall substitute for the TRC requirements delineated in Parts I.A. and I.B.1 above.

* Geometric Mean

C. SCHEDULE OF COMPLIANCE – Outfall 009

The permittee shall achieve compliance with the final limitations and monitoring requirements for Total Recoverable Manganese as specified in Part I.A. of this permit in accordance with the following schedule:

1.	Submit Progress Reports to the DEQ Regional Office	**Quarterly, with the first report due April 10, 2011.**
2.	Achieve Compliance with Part I.A. Limitations	**No later than one year from the effective date of this permit.**

Quarterly = In accordance with the following schedule: 1st quarter (January 1 - March 31, **due April 10**); 2nd quarter (April 1 - June 30, **due July 10**); 3rd quarter (July 1 - September 30, **due October 10**); 4th quarter (October 1 - December 31, **due January 10**).

No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit to the DEQ Regional Office, either a **report of progress** or, in the case of specific actions being required by identified dates, a written **notice of compliance or noncompliance**. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

D. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1. Permit Reopeners

a. Sludge Reopener

This permit may be modified or, alternatively, revoked and reissued if any applicable standard for sewage sludge use or disposal promulgated under Section 405(d) of the Clean Water Act is more stringent than any requirements for sludge use or disposal in this permit, or controls a pollutant or practice not limited in this permit.

b. Water Quality Criteria Reopener

Should effluent monitoring indicate the need for any water quality-based limitation, this permit may be modified or, alternatively, revoked and reissued to incorporate appropriate limitations.

c. Total Maximum Daily Load (TMDL) Reopener

This permit shall be modified or, alternatively, revoked and reissued if any approved waste load allocation procedure, pursuant to section 303(d) of the Clean Water Act, imposes waste load allocations, limits or conditions on the facility that are not consistent with the requirements of this permit.

2. Licensed Wastewater Operator Requirement

The permittee shall employ or contract at least one Class III licensed wastewater works operator (for the industrial wastewater treatment facilities), and at least one IV licensed wastewater works operator (for the sewage treatment works). The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the Board for Waterworks and Wastewater Works Operators. The permittee shall notify the DEQ Regional Office, in writing, whenever the permittee is not complying, or has grounds for anticipatmg the permittee will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

3. Operations and Maintenance (O & M) Manual

The permittee shall review the existing O & M Manual and notify the DEQ Regional Office, in writing, that it is still accurate and complete. If the O & M Manual is no longer accurate and complete, a revised O & M Manual shall be submitted for approval to the DEQ Regional Office. The permittee shall maintain an accurate, approved O & M Manual for the treatment works and operate the treatment works in accordance with the approved O & M manual. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

a. Treatment works design and operation, routine preventative maintenance of units within the treatment works, critical spare parts inventory and record keeping;
b. Procedures for measuring and recording the duration and volume of treated wastewater discharged; and
c. Techniques to be employed in the collection, preservation and analysis of effluent samples.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for approval within 90 days of the effective date of the changes. Upon approval of the

submitted manual changes, the revised manual becomes an enforceable part of this permit. Noncompliance with the O & M Manual shall be deemed a violation of the permit.

Letter/Revised Manual Due: No later than May 10, 2011.

4. 95% Design Capacity Notification

A written notice and a **plan of action** for ensuring continued compliance with the terms of this permit shall be submitted to the DEQ Regional Office when the monthly average flow influent to the sewage treatment plant reaches 95 percent of the design capacity authorized in this permit for each month of any three consecutive month period. The written notice shall be submitted within 30 days and the plan of action shall be received at the DEQ Regional Office **no later than 90 days from the third consecutive month for which the flow reached 95 percent of the design capacity.** The plan shall include the necessary steps and a prompt schedule of implementation for controlling any current or reasonably anticipated problem resulting from high influent flows. Failure to submit an adequate plan in a timely manner shall be deemed a violation of this permit.

5. Notification Levels

The permittee shall notify the Department as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
   (1) One hundred micrograms per liter (100 ug/l);
   (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
   (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
   (4) The level established by the Board.

b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

   (1) Five hundred micrograms per liter (500 ug/l);
   (2) One milligram per liter (1 mg/l) for antimony;
   (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application.
   (4) The level established by the Board.

6. Compliance Reporting Under Part I.A. and I.B.

a. Quantification Levels

   (1) Maximum quantification levels (QL) shall be as follows:

Effluent Characteristic	Quantification Level
Chlorine	0.10 mg/l

Total Recoverable Iron	250 µg/l
Total Recoverable Manganese	10 µg/l
Total Chromium	0.05 mg/l
Total Zinc	0.05 mg/l

(2) The permittee may use any approved method which has a QL equal to or lower than the QL listed in a.(1) above. The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method.

(3) It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained.

(4) An appropriate analytic method for metals shall be selected from the following list of EPA methods, or any approved method in 40 CFR Part 136, which will achieve a QL that is less than or equal to the QL specified in a.(1) above.

Metal	Analytical Methods
Chromium	218.1; 200.7; 218.2; 218.3; 200.9; 1639; 200.8
Iron	236.1; 200.7; 236.2
Manganese	243.1; 200.7; 200.9; 243.2; 200.8
Zinc	289.1; 200.7; 1638; 1639; 200.8; 289.2

b. Reporting

(1) **Monthly Average** -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in a.(1) above shall be determined as follows: All concentration data below the test method QL shall be treated as zeros. All concentration data equal to or above the QL shall be treated as reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the DMR as calculated. If all data are below the QL, then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the calculated concentration is <QL, then report "<QL" for the quantity; otherwise, use the calculated concentration to calculate the quantity.

(2) **Daily maximum** -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in a.(1) above shall be determined as follows: All concentration data below the test method QL shall be treated as zeros. All concentration data equal to or above the QL shall be treated as reported. An arithmetic average of the values shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data for each daily maximum are below the QL, then the average shall be reported as <[QL]. If reporting for quantity is required on the DMR and the calculated concentration for each daily average is <QL, then report "<QL" for the quantity; otherwise, use the calculated maximum value of the daily averages to calculate the quantity.

(3) Any single datum required shall be reported as "<QL" if it is less than the test method QL listed in a.(1) above. Otherwise, the numerical value shall be reported.

7. Effluent Monitoring Frequencies

If the facility permitted herein is issued a Notice of Violation for any of the parameters listed below, then the following effluent monitoring frequencies shall become effective upon written notice from DEQ and remain in effect until permit expiration date.

Effluent Parameter	Outfall	Frequency
TSS	001	1/Week
Oil and Grease	001	1/Week
Total Chromium	101	2/Month
Total Zinc	101	2/Month
BOD5	103	1/Month
TSS	103	1/Month

No other effluent limitations or monitoring requirements are affected by this special condition.

8. Water Quality Monitoring

The permittee shall monitor the effluent at outfalls 002 and 009 for the substances noted in Attachment A of the permit according to the indicated analysis number, quantification level, sample type and frequency. **Monitoring shall be initiated after the start of the third year from the permit's effective date.** Using Attachment A as the reporting form, the data shall be submitted with the next permit reissuance application. Monitoring and analysis shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved method. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. The DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

Completed Attachment A Due: No later than June 30, 2015

9. Ground Water Monitoring Plan

The permittee shall continue sampling and reporting in accordance with the ground water monitoring plan approved on December 16, 2004. The purpose of this plan is to determine if the system integrity is being maintained and to indicate if activities at the site are resulting in violations of the Board's Ground Water Standards. The approved plan is an enforceable part of the permit. Any changes to the plan must be submitted for approval to the DEQ Regional Office.

If monitoring results indicate that any unit has contaminated the ground water, the permittee shall submit a corrective action plan within 60 days of being notified by the DEQ Regional Office. The plan shall set forth the steps to be taken by the permittee to ensure that the contamination source is eliminated or that the contaminant plume is contained on the permittee's property. In addition, based on the extent of contamination, a risk analysis may be required. Once approved, this plan and/or analysis shall be incorporated into the permit by reference and become an enforceable part of this permit.

Monitoring Schedule:

Semi-annual (1/6 Months) Monitoring = In accordance with the following schedule: 1st half (January 1 - June 30, **due August 10**); 2nd half (July 1 - December 31, **due February 10**).

10. Sludge Management Plan

The permittee shall conduct all sewage sludge use or disposal activities in accordance with the Sludge Management Plan (SMP) approved with the issuance of this permit. Any **proposed changes** in the sewage sludge use or disposal practices or procedures followed by the permittee shall be documented and **submitted for Department of Environmental Quality approval 90 days prior to the effective date of the changes**. Upon approval, the revised SMP becomes an enforceable part of the permit. The permit may be modified or, alternatively, revoked and reissued to incorporate limitations or conditions necessitated by substantive changes in sewage sludge use or disposal practices.

11. PCB Discharge Prohibition

There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. Compliance with this requirement will be determined using EPA Method 608.

12. Metals Cleaning Waters Discharge Prohibition

There shall be no discharge of metal cleaning wastewater to State waters. Following metal cleaning activities, the neutralization basin shall be filled with water or wastewater and the entire contents discharged to the scrubber ponds for use as make-up water to the flue gas desulfurization system.

13. PCB Monitoring

The permittee shall monitor the effluent at Outfalls 001, 002, 003, 007 & 009 for Polychlorinated Biphenyls (PCBs) in accordance with the schedule in f. below. DEQ will use these data for development of a PCB TMDL for the Kerr Reservior and not for compliance purposes. The permittee shall conduct the sampling and analysis in accordance with the requirements specified below. At a minimum:

a. Monitoring and analysis shall be conducted in accordance with the most current version of EPA Method 1668, congener specific results as specified in the PCB Point Source Monitoring Guidance. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures.

b. The permittee shall collect a minimum of 2 wet weather samples (Outfall 007), 2 dry weather samples (Outfalls 001 and 009) and 2 samples (Outfall 003) according to the PCB Point Source Guidance No. 09-2001, Appendix C (Sample Collection Methods for Effluent and Storm Water) and/or its amendments. Samples previously collected from these outfalls and analyzed with Method 1668, may be used in satisfying the total number of samples required even if the collection occurred prior to the current permit term.

c. The sampling protocol shall be submitted to DEQ-BRRO Lynchburg Regional Office for review and approval in accordance with the schedule in f. below prior to the first sample collection.

d. The data shall be submitted to DEQ-BRRO Lynchburg Regional Office by the 10th day of the month following receipt of the results according to the PCB Point Source Guidance No. 09-2001, Appendix E (Reporting Requirements for Analytical (PCB) Data Generated Using EPA Method 1668) and/or its amendments. The submittal shall include the unadjusted and appropriately quantified individual PCB congener analytical results. Additionally, laboratory and field QA/QC documentation and results should be reported. Total PCBs are to be computed as the summation of the reported, quantified congeners.

e. If the results of this monitoring indicate actual or potential exceedance of the water quality criterion or the Waste Load Allocation specified in the approved TMDL, the permittee shall submit to DEQ-BRRO Lynchburg Regional Office for review and approval a Pollutant Minimization Plan (PMP) designed to locate and reduce sources of PCBs in the collection system. A component of the plan may include an evaluation of the PCB congener distribution in the initial source intake water to determine the net contributions of PCBs introduced to the treatment works.

f. PCB monitoring shall proceed in accordance with the following schedule:

1.	Submit PCB sampling protocol	**No later than December 10, 2011.**
2.	Complete and Submit PCB monitoring results to the DEQ Blue Ridge Regional Office – Lynchburg.	**No later than January 10, 2013.**
3.	If required, Submit Pollutant Minimization Plan (PMP)	**Within 1 year of notification by DEQ.**

14. Application Requirement

In accordance with Part II. M. of this permit, a new and complete permit application shall be submitted for the reissuance of this permit.

Application Due: No later than July 17, 2015

E. TOXICS MANAGEMENT PROGRAM

1. Biological Monitoring

a. In accordance with the schedule in 2. below, the permittee shall conduct annual acute toxicity tests for the length of the permit. The permittee should collect 24-hour flow-proportioned composite samples of final effluent from outfall 001, and grab samples from outfalls 002 and 009. The acute tests for outfalls 001 and 002 to use are:

48 Hour Static Acute test using *Ceriodaphnia dubia*

The acute tests for outfalls 002 and 009 to use are:

48 Hour Static Acute test using *Ceriodaphnia dubia*
48 Hour Static Acute test using *Pimephales promelas*

These acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for calculation of a valid LC_{50}. Express as the results as TU_a (Acute Toxic Units) by dividing $100/LC_{50}$ for reporting.

The permittee may provide additional samples. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3

b. The test dilutions should be able to determine compliance with the following endpoint:

Outfall 001 – Acute LC_{50} of 100% equivalent to a TU_a of 1.00
Outfall 002 – Acute LC_{50} of 2% equivalent to a TU_a of 50.00
Outfall 009 – Acute LC_{50} of 11% equivalent to a TU_a of 9.09

c. The test data will be evaluated for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of 1.a. may be discontinued.

d. All applicable data will be reevaluated for reasonable potential at the end of the permit term.

e. If, in the testing according to E.1., any toxicity tests are invalidated, the tests shall be repeated within the testing period that the original test was taken, or if already past that period, within thirty (30) days of notification. If there is no discharge during this period, a sample must be taken during the first discharge.

2. Reporting Schedule:

The permittee shall report the results as specified in this Toxics Management Program in accordance with the following schedule:

(a)	**Conduct first annual biological tests**	**Between February 1, 2011 and December 31, 2011**
(b)	**Submit results of all biological tests**	**With a Discharge Monitoring Report (DMR) by January 10, 2012**
(c)	**Conduct subsequent annual biological tests**	**By December 31, 2012, 2013, 2014**
(d)	**Submit results of all biological tests**	**With a DMR by January 10, 2013, 2014, 2015**

F. STORM WATER MANAGEMENT CONDITIONS

1. General Storm Water Special Conditions

a. Sample Type

For all storm water monitoring required in Part I.A or other applicable sections of this permit, a minimum of one grab sample shall be taken. Unless otherwise specified, all such samples shall be collected from the discharge resulting from a storm event that occurs at least 72 hours from the previously measurable storm event (a "measurable storm event" is defined as a storm event that results in an actual discharge from the site). The required 72-hour storm event interval is waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken during the first hour of the discharge, and the permittee shall submit with the monitoring report a description of why a grab sample during the first 30 minutes was impracticable. If storm water discharges associated with industrial activity commingle with process or non-process water, then where practicable the permittee must attempt to sample the storm water discharge before it mixes with the non-storm water discharge.

b. Recording of Results

For each measurement or sample taken pursuant to the storm event monitoring requirements of this permit, the permittee shall record and report with the DMRs the following information:

(1) The date and duration (in hours) of the storm event(s) sampled;

(2) The rainfall total (in inches) of the storm event which generated the sampled discharge; and

(3) The duration between the storm event sampled and the end of the previous measurable storm event.

In addition, the permittee shall maintain a monthly log documenting the amount of rainfall received at this facility on a daily basis. A summarization of this information shall also be maintained at the site.

In the event that sampling of an outfall is not possible due to the absence of effluent flow during a particular testing period, the permittee shall provide written notification to DEQ with the DMR for the month following the period in which samples were to be collected.

c. Sampling Waiver

When a permittee is unable to collect storm water samples required in Part I.A or other applicable sections of this permit within a specified sampling period due to adverse climatic conditions, the permittee shall collect a substitute sample from a separate qualifying event in the next period and submit these data along with the data for the routine sample in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

d. Representative Discharges

When a facility has two or more outfalls that discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, the permittee may test the effluent of one of such outfalls and report that the quantitative data also apply to the substantially identical outfall(s) provided that: (1) the representative outfall determination has been approved by DEQ prior to data submittal; and (2) the permittee includes in the SWPPP adescription of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents.

e. Quarterly Visual Examination of Storm Water Quality

The permittee must perform and document a quarterly visual examination of a storm water discharge associated with industrial activity from each outfall, except discharges exempted below. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December. The visual examination must be made during daylight hours (e.g., normal working hours). If no storm event resulted in runoff from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no runoff occurred. The documentation must be signed and certified in accordance with Part II.K. of this permit.

(1) Visual examinations must be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging from the facility. The examination must document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well-lit area. No analytical tests are required to be performed on the samples. All samples (except snowmelt samples) must be collected from the discharge resulting from a storm event that results in an actual discharge from the site (defined as a "measurable storm event"), and that occurs at least 72 hours from the previously measurable storm event. The 72-hour storm interval is waived if the permittee is able to document that less than a 72-hour interval is representative for local storm events during the sampling period. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term. If no qualifying storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no qualifying storm event occurred during daylight hours that resulted in storm water runoff during that quarter. The documentation must be signed and certified in accordance with Part II.K.

(2) The visual examination reports must be maintained on-site with the Storm Water Pollution Prevention Plan (SWPPP). The report must include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.

(3) If the facility has two or more outfalls that discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, the permittee may conduct visual monitoring on the effluent of just one of the outfalls and report that the observations also apply to the substantially identical outfall(s), provided that the permittee includes in the SWPPP a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)) shall be provided in the plan.

(4) When the permittee is unable to conduct the visual examination due to adverse climaticconditions, the permittee must document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

f. Allowable Non-Storm Water Discharges

(1) The following non-storm water discharges are authorized by this permit provided then on-storm water component of the discharge is in compliance with f.(2), below:

(a) Discharges from fire fighting activities;
(b) Fire hydrant flushings;
(c) Potable water including water line flushings;
(d) Uncontaminated air conditioning or compressor condensate;
(e) Irrigation drainage;
(f) Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with manufacturer's instructions;
(g) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
(h) Routine external building wash down which does not use detergents;
(i) Uncontaminated ground water or spring water;
(j) Foundation or footing drains where flows are not contaminated with process materials;
(k) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains);
(l) Makeup water storage tank water (provided chlorine is non detectable); and
(m) Condensate storage tank water.

(2) Except for flows from fire fighting activities, the SWPPP must include:

(a) Identification of each allowable non-storm water source;
(b) The location where the non-storm water is likely to be discharged; and

(c) Descriptions of appropriate BMPs for each source.

(3) If mist blown from cooling towers is included as one of the allowable non-storm water discharges from the facility, the permittee must specifically evaluate the discharge for the presence of chemicals used in the cooling tower. The evaluation shall be included in the SWPPP.

g. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

The discharge of hazardous substances or oil in the storm water discharge(s) from the facility shall be prevented or minimized in accordance with the SWPPP for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 or § 62.1-44.34:19 of the Code of Virginia. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period:

(1) The permittee is required to notify the Department in accordance with the requirements of Part II.G. as soon as he or she has knowledge of the discharge;

(2) Where a release enters a municipal separate storm sewer system (MS4), the permittee shall also notify the owner or the MS4; and

(3) The SWPPP required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

h. Additional Requirements for Salt Storage

Storage piles of salt or piles containing salt used for deicing or other commercial or industrial purposes shall be enclosed or covered to prevent exposure to precipitation. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. All salt storage piles shall be located on an impervious surface. All runoff from the pile, and/or runoff that comes in contact with salt, including under drain systems, shall be collected and contained within a bermed basin lined with concrete or other impermeable materials, or within an underground storage tank(s), or within an above ground storage tank(s), or disposed of through a sanitary sewer (with the permission of the treatment facility). A combination of any or all of these methods may be used. In no case shall salt contaminated storm water be allowed to discharge directly to the ground or to state waters.

2. Storm Water Pollution Prevention Plan

A SWPPP is required to be maintained and implemented for the facility. The plan shall include Best Management Practices (BMPs) that are reasonable, economically practicable, and appropriate in light of current industry practices. The BMPs shall be selected, designed, installed, implemented and maintained in accordance with good engineering practices to eliminate or reduce the pollutants in all storm water discharges from the facility. The plan shall also include any control measures necessary for the storm water discharges to meet applicable water quality standards.

Permittees shall implement the provisions of the SWPPP as a condition of this permit.

The SWPPP requirements of this permit may be fulfilled, in part, by incorporating by reference other plans or documents such as a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act, or best management practices (BMP) programs otherwise required for the facility, provided that the incorporated plan meets or exceeds the plan requirements of section b. below (Contents of the Plan). All plans incorporated by reference into the SWPPP become enforceable under this permit. If a plan incorporated by reference does not contain all of the required elements of the SWPPP of Part I.F.2.b. below, the permittee shall develop the missing SWPPP elements and include them in the required plan.

a. Deadlines for Plan Preparation and Compliance

(1) The facility shall review and implement the existing plan as expeditiously as practicable, but not later than 270 days from the effective date of the permit. Verification of compliance shall be provided, in writing, within 10 days of the above deadline.

(2) Measures That Require Construction. In cases where construction is necessary to implement measures required by the plan, the plan shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of this permit. Where a construction compliance schedule is included in the plan, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.

b. Contents of the Plan

The contents of the SWPPP shall comply with the requirements listed below and those in Part I.F.3. below (Sector-Specific SWPPP Requirements). The plan shall include, at a minimum, the following items:

(1) Pollution Prevention Team. The plan shall identify the staff individuals by name or title that comprise the facility's storm water pollution prevention team. The pollution prevention team is responsible for assisting the facility or plant manager in developing, implementing, maintaining, revising, and ensuring compliance with the facility's SWPPP. Specific responsibilities of each staff individual on the team shall be identified and listed.

(2) Site Description.

The SWPPP shall include the following:

(a) Activities at the Facility.

A description of the nature of the industrial activities at the facility.

(b) General Location Map

A general location map (e.g., USGS quadrangle or other map) with enough detail to identify the location of the facility and the receiving waters within one mile of the facility.

(c) Site Map

A site map identifying the following:

(i) The size of the property (in acres);

(ii) The location and extent of significant structures and impervious surfaces (roofs, paved areas and other impervious areas);

(iii) Locations of all storm water conveyances including ditches, pipes, swales, and inlets, and the directions of storm water flow (use arrows to show which ways storm water will flow);

(iv) Locations of all existing structural and source control BMPs;

(v) Locations of all surface water bodies, including wetlands;

(vi) Locations of potential pollutant sources identified under in paragraph b.(3) below;

(vii) Locations where significant spills or leaks identified under paragraph b.(4) below, have occurred;

(viii) Locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; processing and storage areas; access roads, rail cars and tracks; t transfer areas for substances in bulk; and machinery;

(ix) Locations of storm water outfalls and an approximate outline of the area draining to each outfall, and location of municipal storm sewer systems, if the storm water from the facility discharges to them;

(x) Location and description of all non-storm water discharges;

(xi) Location of any storage piles containing salt used for deicing or other commercial or industrial purposes; and

(xii) Locations and sources of runon to the site from adjacent property where the runon contains significant quantities of pollutants. The permittee shall include an evaluation with the SWPPP of how the quality of the storm water running onto the facility impacts the facility's storm water discharges.

(d) Receiving Waters and Wetlands

The name of all surface waters receiving discharges from the site, including intermittent streams, dry sloughs, and arroyos. Provide a description of wetland sites that may receive discharges from the facility. If the facility discharges through a municipal separate storm sewer system (MS4), identify the MS4 operator, and the receiving water to which the MS4 discharges.

(3) Summary of Potential Pollutant Sources

The plan shall identify each separate area at the facility where industrial materials or activities are exposed to storm water. Industrial materials or activities include, but are not limited to: material handling equipment or activities, industrial machinery, raw materials, industrial production and processes, intermediate products, byproducts, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For each separate area identified, the description shall include:

(a) Activities in Area

A list of the activities (e.g., material storage, equipment fueling and cleaning, cutting steel beams); and

(b) Pollutants

A list of the associated pollutant(s) or pollutant constituents (e.g. crankcase oil, zinc, sulfuric acid, cleaning solvents, etc.) for each activity. The pollutant list shall include all significant materials handled, treated, stored or disposed in a manner such that they are exposed to storm water. The list shall include any hazardous substances or oil at the facility.

(4) Spills and Leaks

The SWPPP shall clearly identify areas where potential spills and leaks that can contribute pollutants to storm water discharges can occur and their corresponding outfalls. The plan shall include a list of significant spills and leaks of toxic or hazardous pollutants that actually occurred at exposed areas, or that drained to a storm conveyance during the three-year period prior to the date this SWPP was prepared or amended. The list shall be updated if significant spills or leaks occur in exposed areas of the facility during the term of the permit. Significant spills and leaks include releases of oil or hazardous substances in excess of reportable quantities.

(5) Sampling Data

The plan shall include a summary of existing storm water discharge sampling data taken at the facility.

(6) Storm Water Controls

(a) BMPs shall be implemented for all the areas identified in Part I.F.2.b.(3) above (Summary of Potential Pollutant Sources) to prevent or control pollutants in storm water discharges from the facility. All reasonable steps

shall be taken tocontrol or address the quality of discharges from the site that may not originate at the facility. The SWPPP shall describe the type, location and implementation of all BMPs for each area where industrial materials or activities are exposed to storm water. Selection of BMPs shall take into consideration:

(i) That preventing storm water from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from storm water;

(ii) BMPs generally shall be used in combination with each other for most effective water quality protection;

(iii) Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures;

(iv) That minimizing impervious areas at the facility can reduce runoff and improve groundwater recharge and stream base flows in local streams (however, care must be taken to avoid ground water contamination);

(v) Flow attenuation by use of open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows;

(vi) Conservation or restoration of riparian buffers will help protect streams from storm water runoff and improve water quality; and

(vii) Treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.

(b) Control Measures

The permittee shall implement the following types of BMPs to prevent and control pollutants in the storm water discharges from the facility, unless it can be demonstrated and documented that such controls are not relevant to the discharges (e.g., there are no storage piles containing salt).

(i) Good Housekeeping

The permittee shall keep clean all exposed areas of the facility that are potential sources of pollutants to storm water discharges. Typical problem areas include areas around trash containers, storage areas, loading docks, and vehicle fueling and maintenance areas. The plan shall include a schedule for regular pickup and disposal of waste materials, along with routine inspections for leaks and conditions of drums, tanks and Containers. The introduction of raw, final or waste materials to exposed areas of the facility shall be minimized to the maximum extent practicable. The generation of dust, along with off-

site vehicle tracking of raw, final or waste materials, or sediments, shall be minimized to the maximum extent practicable.

(ii) Eliminating and Minimizing Exposure

To the extent practicable, industrial materials and activities shall be located inside, or protected by a storm-resistant covering to prevent exposure to rain, snow, snowmelt, and runoff. Note: Eliminating exposure at all industrial areas may make the facility eligible for the "Conditional Exclusion for No Exposure" provision of 9 VAC 25-31-120E, thereby eliminating the need to have a permit.

(iii) Preventive Maintenance

The permittee shall have a preventive maintenance program that includes regular inspection, testing, maintenance and repairing of all industrial equipment and systems to avoid breakdowns or failures that could result in leaks, spill and other releases. This program is in addition to the specific BMP maintenance required under Part I.F.2.c. below (Maintenance of BMPs).

(iv) Spill Prevention and Response Procedures

The plan shall describe the procedures that will be followed for preventing and responding to spills and leaks.

(A) Preventive measures include barriers between material storage and traffic areas, secondary containment provisions, and procedures for material storage and handling.

(B) Response procedures shall include notification of appropriate facility personnel, emergency agencies, and regulatory agencies, and procedures for stopping, containing and cleaning up spills. Measures for cleaning up hazardous material spills or leaks shall be consistent with applicable RCRA regulations at 40 CFR Part 264 and 40 CFR Part 265. Employees who may cause, detect or respond to a spill or leak shall be trained in these procedures and have necessary spill response equipment available. If possible, one of these individuals shall be a member of the Pollution Prevention Team.

(C) Contact information, or the location of contact information, for individuals and agencies that must be notified in the event of a spill shall be included in the SWPPP, and in other locations where it will be readily available.

(v) Routine Facility Inspections

Facility personnel who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at the facility, and who

can also evaluate the effectiveness of BMPs shall quarterly inspect all areas of the facility where industrial materials or activities are exposed to storm water. These inspections are in addition to, or as part of, the comprehensive site evaluation required under section d. below (Comprehensive Site Compliance Evaluation). At least one member of the Pollution Prevention Team shall participate in the routine facility inspections.

The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit or written approval is received from the department for less frequent intervals. At least once each calendar year, the routine facility inspection must be conducted during a period when a storm water discharge is occurring.

Any deficiencies in the implementation of the SWPPP that are found shall be corrected as soon as practicable, but not later than within 90 days of the inspection, unless permission for a later date is granted in writing by the director. The results of the inspections shall be documented in the SWPPP, along with the date(s) and description(s) of any corrective actions that were taken in response to any deficiencies or opportunities for improvement that were identified.

(vi) Employee Training

The permittee shall implement a storm water employee training program for the facility. The SWPPP shall include a schedule for all types of necessary training, and shall document all training sessions and the employees who received the training. Training shall be provided for all employees who work in areas where industrial materials or activities are exposed to storm water, and for employees who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel, etc.). The training shall cover the components and goals of the SWPPP, and include such topics as spill response, good housekeeping, material management practices, BMP operation and maintenance, etc. The SWPPP shall include a summary of any training performed.

(vii) Sediment and Erosion Control

The plan shall identify areas at the facility that, due to topography, land disturbance (e.g., construction, landscaping, site grading), or other factors, have a potential for soil erosion. The permittee shall identify and implement structural, vegetative, and/or stabilization BMPs to prevent or control on-site and off-site erosion and sedimentation. Flow velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel if the flowswould otherwise create erosive conditions.

(viii) Management of Runoff

The plan shall describe the storm water runoff management practices (i.e., permanent structural BMPs) for the facility. These types of BMPs

are typically used to divert, infiltrate, reuse, or otherwise reduce pollutants in storm water discharges from the site.

Structural BMPs may require a separate permit under § 404 of the CWA and the Virginia Water Protection Permit Program Regulation (9VAC25-210) before installation begins.

c. Maintenance

All BMPs identified in the SWPPP shall be maintained in effective operating condition. Storm water BMPs identified in the SWPPP shall be observed during active operation (i.e., during a storm water runoff event) to ensure that they are functioning correctly. Where discharge locations are inaccessible, nearby downstream locations shall be observed. The observations shall be documented in the SWPPP.

The SWPPP shall include a description of procedures and a regular schedule for preventive maintenance of all BMPs, and shall include a description of the back-up practices that are in place should a runoff event occur while a BMP is off-line. The effectiveness of nonstructural BMPs shall also be maintained by appropriate means (e.g., spill response supplies available and personnel trained, etc.).

If site inspections required by Part I.F.2.b.(6)(b)(v) above (Routine Facility Inspections) and Part I.F.2.d. below (Comprehensive Site Compliance Evaluation) identify BMPs that are not operating effectively, repairs or maintenance shall be performed before the next anticipated storm event. If maintenance prior to the next anticipated storm event is not possible, maintenance shall be scheduled and accomplished as soon as practicable. In the interim, back-up measures shall be employed and documented in the SWPPP until repairs or maintenance is complete. Documentation shall be kept in a location specified in the SWPPP, of maintenance and repairs of BMPs, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair or replacement, and for repairs, date(s) that the BMP(s) returned to full function, and the justification for any extended maintenance or repair schedules.

d. Comprehensive Site Compliance Evaluation

The permittee shall conduct comprehensive site compliance evaluations at least once a year. The evaluations shall be done by qualified personnel who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at the facility, and who can also evaluate the effectiveness of BMPs. The personnel conducting the evaluations may be either facility employees or outside constituents hired by the facility.

(1) Scope of the Compliance Evaluation

Evaluations shall include all areas where industrial materials or activities are exposed to storm water, as identified in Part I.F.2.b.(3) above. The personnel shall evaluate:

(a) Industrial materials, residue or trash that may have or could come into contact with storm water;

(b) Leaks or spills from industrial equipment, drums, barrels, tanks or other containers that have occurred within the past three years;

(c) Off-site tracking of industrial or waste materials or sediment where vehicles enter or exit the site;

(d) Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas;

(e) Evidence of, or the potential for, pollutants entering the drainage system;

(f) Evidence of pollutants discharging to surface waters at all facility outfalls, and the condition of and around the outfall, including flow dissipation measures to prevent scouring;

(g) Review of training performed, inspections completed, maintenance performed, quarterly visual examinations, and effective operation of BMPs;

(h) Results of both visual and any analytical monitoring done during the past year shall be taken into consideration during the evaluation.

(2) Based on the results of the evaluation, the SWPPP shall be modified as necessary (e.g., show additional controls on the map required by Part I.F.2.b.(2)(c); revise the description of controls required by Part I.F.2.b(6) to include additional or modified BMPs designed to correct problems identified). Revisions to the SWPPP shall be completed within 30 days following the evaluation, unless permission for a later date is granted in writing by the director. If existing BMPs need to be modified or if additional BMPs are necessary, implementation shall be completed before the next anticipated storm event, if practicable, but not more than 60 days after completion of the comprehensive site evaluation, unless permission for a later date is granted in writing by the Department;

(3) Compliance Evaluation Report

A report shall be written summarizing the scope of the evaluation, name(s) of personnel making the evaluation, the date of the evaluation, and all observations relating to the implementation of the SWPPP, including elements stipulated in Part I.F.2.d.(1) (a) through (h) above. Observations shall include such things as: the location(s) of discharges of pollutants from the site; location(s) of previously unidentified sources of pollutants; location(s) of BMPs that need to be maintained or repaired; location(s) of failed BMPs that need replacement; and location(s) where additional BMPs are needed. The report shall identify any incidents of noncompliance that were observed. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the SWPPP and this permit. The report shall be signed in accordance with Part II.K. and maintained with the SWPPP.

(4) Where compliance evaluation schedules overlap with routine inspections required under Part I.F.2.b(6)(b)(v), the annual compliance evaluation may be used as one of the routine inspections.

e. Signature and Plan Review

(1) Signature/Location

The SWPPP shall be signed in accordance with Part II.K., dated, and retained on-site at the facility covered by this permit in accordance with Part II.B.2. All other changes to the SWPPP, and other permit compliance documentation, must be signed and dated by the person preparing the change or documentation.

(2) Availability

The permittee shall make the SWPPP, annual site compliance evaluation report, and other information available to the Department upon request.

(3) Required Modifications

The director may notify the permittee at any time that the SWPPP, BMPs, or other components of the facility's storm water program do not meet one or more of the requirements of this permit. The notification shall identify specific provisions of the permit that are not being met, and may include required modifications to the storm water program, additional monitoring requirements, and special reporting requirements. The permittee shall make any required changes to the SWPPP within 60 days of receipt of such notification, unless permission for a later date is granted in writing by the director, and shall submit a written certification to the director that the requested changes have been made.

f. Maintaining an Updated SWPPP

(1) The permittee shall review and amend the SWPPP as appropriate whenever:

(a) There is construction or a change in design, operation, or maintenance at the facility that has a significant effect on the discharge, or the potential for the discharge, of pollutants from the facility;

(b) Routine inspections or compliance evaluations determine that there are deficiencies in the BMPs;

(c) Inspections by local, state, or federal officials determine that modifications to the SWPPP are necessary;

(d) There is a spill, leak or other release at the facility; or

(e) There is an unauthorized discharge from the facility.

(2) SWPPP modifications shall be made within 30 calendar days after discovery, observation or event requiring a SWPPP modification. Implementation of new or modified BMPs (distinct from regular preventive maintenance of existing BMPs described in Part I.F.2.b(6)(b)(iii)) shall be initiated before the next storm event if possible, but no later than 60 days after discovery, or as otherwise provided or approved by the Director. The amount of time taken to modify a BMP or implement additional BMPs shall be documented in the SWPPP.

(3) If the SWPPP modification is based on a release or unauthorized discharge, include a description and date of the release, the circumstances leading to the release, actions taken in response to the release, and measures to prevent the recurrence of such releases. Unauthorized releases and discharges are subject to the reporting requirements of Part II.G. of this permit.

4. SECTOR-SPECIFIC STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS

The requirements listed under this section apply to storm water discharges associated with industrial activity from steam electric power generating facilities using coal, natural gas, oil, nuclear energy, etc. to produce a steam source, including coal handling areas (Industrial Activity Code "O").

Storm water discharges from ancillary facilities (e.g., fleet centers, gas turbine stations, and substations) that are not contiguous to a steam electric power generating facility are not covered by this permit. Heat capture/heat recovery combined cycle generation facilities are also not covered by this permit; however, dual fuel co-generation facilities that generate electric power are included.

In addition to the requirements of Part I.F.2., the SWPPP shall include, at a minimum, the following items:

a. Site Description

(1) Site Map

The site map shall identify the locations of any of the following activities or sources that may be exposed to precipitation/surface runoff: storage tanks, scrap yards, general refuse areas; short and long term storage of general materials (including, but not limited to: supplies, construction materials, paint equipment, oils, fuels, used and unused solvents, cleaning materials, paint, water treatment chemicals, fertilizer, and pesticides); landfills; construction sites; and stock pile areas (such as coal or limestone piles).

(2) Storm Water Controls

(a) Good Housekeeping Measures

(i) Fugitive Dust Emissions

The permittee shall describe and implement measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize off-site tracking of coal dust such as installing specially designed tires, or

washing vehicles in a designated area before they leave the site, and controlling wash water.

(ii) Delivery Vehicles

The plan shall describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee shall consider the following:

i. Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and

ii. Develop procedures to deal with leakage/spillage from vehicles or containers.

(iii) Fuel Oil Unloading Areas

The plan shall describe measures that prevent or minimize contamination of precipitation/surface runoff from fuel oil unloading areas. At a minimum the permittee shall consider using the following measures, or an equivalent:

i. Use of containment curbs in unloading areas;

ii. During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

iii. Use of spill and overflow protection (e.g., drip pans, drip diapers, and/or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).

(iv) Chemical Loading/Unloading Areas

The permittee shall describe and implement measures that prevent or minimize the contamination of precipitation/surface runoff from chemical loading/unloading areas. At a minimum the permittee shall consider using the following measures (or their equivalents):

i. Use of containment curbs at chemical loading/unloading areas to contain spills;

ii. During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

iii. Covering chemical loading/unloading areas, and storing chemicals indoors.

(v) Miscellaneous Loading/Unloading Areas

The permittee shall describe and implement measures that prevent or minimize the contamination of storm water runoff from loading and unloading areas. The permittee shall consider the following, at a minimum (or their equivalents):

i. Covering the loading area;

ii. Grading, berming or curbing around the loading areas to divert runon; or

iii. Locating the loading/unloading equipment and vehicles so that leaks are contained in existing containment and flow diversion systems.

(vi) Liquid Storage Tanks

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from aboveground liquid storage tanks. At a minimum the permittee shall consider employing the following measures (or their equivalents):

i. Use of protective guards around tanks;

ii. Use of containment curbs;

iii. Use of spill and overflow protection; and

iv. Use of dry cleanup methods

(vii) Large Bulk Fuel Storage Tanks

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from large bulk fuel storage tanks. At a minimum the permittee shall consider employing containment berms (or its equivalent). The permittee shall also comply with applicable state and federal laws, including Spill Prevention Control and Countermeasures (SPCC).

(viii) Spill Reduction Measures

The permittee shall describe and implement measures to reduce the potential for an oil/chemical spill, or reference the appropriate section of the SPCC plan. At a minimum the structural integrity of all aboveground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs deemed necessary based on the finding of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(ix) Oil Bearing Equipment in Switchyards

The permittee shall describe and implement measures to prevent or minimize contamination of surface runoff from oil bearing equipment in switchyard areas. The permittee shall consider the use of level grades and gravel surfaces to retard flows and limit the spread of spills, and the collection of storm water runoff in perimeter ditches.

(x) Residue Hauling Vehicles

All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the container body. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds shall be repaired as soon as practicable.

(xi) Ash Loading Areas

The permittee shall describe and implement procedures to reduce or control the tracking of ash/residue from ash loading areas where practicable, clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water before departure of each loaded vehicle.

(xii) Areas Adjacent to Disposal Ponds or Landfills

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee shall develop procedures to:

i. Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and

ii. Reduce ash residue on exit roads leading into and out of residue handling areas

(xiii) Landfills, Scrapyards, Surface Impoundments, Open Dumps, General Refuse Sites

The plan shall address and include appropriate BMPs for landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(xiv) Vehicle Maintenance Activities

i. Vehicle and Equipment Storage Areas

The storage of vehicles and equipment awaiting maintenance with actual or potential fluid leaks shall be confined to designated areas (delineated on the site map). The permittee shall consider the following measures (or their equivalents):

the use of drip pans under vehicles and equipment; indoor storage of vehicles and equipment; installation of berms or dikes; use of absorbents; roofing or covering storage areas; and cleaning pavement surface or remove oil and grease.

ii. Fueling Areas

The permittee shall describe and implement measures that prevent or minimize contamination of the storm water runoff from fueling areas. The permittee shall consider the following measures (or their equivalents): covering the fueling area; using spill/overflow protection and cleanup equipment; minimizing storm water runon/runoff to the fueling area; using dry cleanup methods; and treating and/or recycling collected storm water runoff.

iii. Material Storage Areas

Storage vessels of all materials (e.g., for used oil/oil filters, spent solvents, paint wastes, hydraulic fluids) shall be maintained in good condition, so as to prevent contamination of storm water, and plainly labeled (e.g., "used oil", "spent solvents", etc.). The permittee shall consider the following measures (or their equivalents): indoor storage of the materials; installation of berms/dikes around the areas, minimizing runoff of storm water to the areas; minimizing runoff of storm water to the areas; using dry cleanup methods and treating and/or recycling the collected storm water runoff.

iv. Vehicle and Equipment Cleaning Areas

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from all areas used for vehicle/equipment cleaning. The permittee shall consider the following measures (or their equivalents): performing all cleaning operations indoors; covering the cleaning operation; ensuring that all washwaters drain to a proper collection system (i.e., not the storm water drainage system unless VPDES permitted); and treating and/or recycling the collected storm water runoff.

v. Vehicle and Equipment Maintenance Areas

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from all areas used for vehicle/equipment maintenance. The permittee shall consider the following measures (or their equivalents): performing maintenance activities indoors; using drip pans; keeping an organized inventory of materials used in the shop; draining all parts of fluids prior to disposal; prohibiting wet clean up practices where the practices would

result in the discharge of pollutants to storm water drainage systems; using dry cleanup methods; treating and/or recycling collected storm water runoff; and minimizing runon/runoff of storm water to maintenance areas.

vii. Locomotive Sanding (Loading Sand for Traction) Areas

The plan shall describe measures that prevent or minimize contamination of the storm water runoff from areas used for locomotive sanding. The permittee shall consider the following measures (or their equivalents): covering sanding areas; minimizing storm water runon/runoff; or appropriate sediment removal practices to minimize the off-site transport of sanding material by storm water.

(xv) Material Storage Areas

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay-down areas). The permittee shall consider the use of the following measures (or their equivalents): flat yard grades; runoff collection in graded swales or ditches; erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins); covering lay-down areas; storing materials indoors; and covering materials temporarily with polyethylene, polyurethane, polypropylene, or hypalon. Storm water runon may be minimized by constructing an enclosure or building a berm around the area.

(xvi) Comprehensive Site Compliance Evaluation

As part of the evaluation, qualified facility personnel shall inspect the following areas on a monthly basis: coal handling areas, loading/ unloading areas, switchyards, fueling areas, bulk storage areas, ash handling areas, areas adjacent to disposal ponds and landfills, maintenance areas, liquid storage tanks, and Long term and short term material storage areas.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.

2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.

3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records

1. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;

   b. The individual(s) who performed the sampling or measurements;

   c. The date(s) and time(s) analyses were performed;

   d. The individual(s) who performed the analyses;

   e. The analytical techniques or methods used; and

   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Virginia Department of Environmental Quality
   Blue Ridge Regional Office
   7705 Timberlake Road
   Lynchburg, Virginia 24502

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or

2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and

8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:

   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:

   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the Department's Regional Office at (434) 582-5120 (voice) or (434) 582-5125 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

      (1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or

      (2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. Applications. All permit applications shall be signed as follows:

   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

   b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

   c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part II K 1;

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of solids or sludges

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.

2. Notice

   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.

   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.

3. Prohibition of bypass.

   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:

(1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required under Part II U 2.

b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   a. An upset occurred and that the permittee can identify the cause(s) of the upset;

   b. The permitted facility was at the time being properly operated;

   c. The permittee submitted notice of the upset as required in Part II I; and

   d. The permittee complied with any remedial measures required under Part II S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;

   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2 b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street SE
Charleston, West Virginia 25304-2345
Phone: 304-926-0495
Fax: 304-926-0477

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

April 12, 2016

CATHY TAYLOR
VEPCO
5000 DOMINION BLVD
GLEN ALLEN, VA 23060

CERTIFIED RETURN RECEIPT REQUESTED

Dear Permittee:

Enclosed please find Solid Waste/NPDES Permit Number WV0077461 dated April 12, 2016.

In response to your comments to the draft permit submitted by letter dated March 4, 2016, this agency offers the following responses:

Comment No. 1 : Inspectable Unit LM1

Please note that LM1 was inadvertently not included as an inspectable unit in the draft permit but was referenced as an inspectable unit in the fact sheet that accompanied the draft permit. Therefore, it is being included in this permit. Please note that the parameters to be monitored are those which were referenced in the fact sheet, specifically, pH, Arsenic, Molybdenum, and Zinc.

Comment No. 2 : Section A.006 - Flow Monitoring Requirements

This agency concurs that the reporting of Flow in the "Other Units" column is more appropriate than in the "Quantity" column and has revised this Section accordingly.

Comment No. 3 : Section A.MWG1

As Antimony was inadvertently listed as a monitored parameter, it has been removed from this section.

Comment No. 4 : Schedule of Compliance - Outlet 006, Aluminum limitations

In response to your request to allow two years to comply with Aluminum limitations, a review of monthly effluent data provided during the term of Permit No. WV0077461 dated June 28, 2011, revealed average monthly concentrations greater than the average monthly effluent limitation of .23 mg/l imposed by this permit on only three occasions, specifically, January 2012 (.234 mg/l), February 2013 (.278 mg/l), and April 2014 (.3 mg/l). Based on these concentrations, please note that it is this agency's judgment that a two year compliance period is not warranted.

Comment No. 5 : Condition C.7.a. - Grass Clippings

Please note that use of grass clippings dervied from the landfill does not constitute use of the landfill for agricultural purposes.

Comment No. 6 : Condition C.9 - Use of Flocculants

As the intent of this condition is to monitor aluminum following the use of an alumimum-based flocculant, this condition has been revised to specify that aluminum monitoring is required only after the use of an alumimum-based flocculant.

Please note that a Discharge Monitoring Report (DMR) is to be completed and submitted to this Division each month.

Finally note that copies of all future correspondence regarding the permit must be forwarded to the Field Inspector and Field Supervisor at the following address:

Department of Environmental Protection
Environmental Enforcement
HC 63 Box 2545
Romney, WV 26757

Also, please note the attachment to this permit which describes the annual permit fee requirement. Reissuance of your permit does not change the annual fee billing cycle.

Sincerely,

Scott G. Mandirola
Director

SGM:jb

Enclosures

Permit Number: WV0077461

Permittee: VEPCO

cc: Env. Insp. Supv.
Env. Insp.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT
601 57TH STREET SE
CHARLESTON, WV 25304-2345

SOLID WASTE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WATER POLLUTION CONTROL PERMIT

NPDES PERMIT NO.: WV0077461
SUBJECT: Solid Industrial Waste

ISSUE DATE: April 12, 2016
EFFECTIVE DATE : June 01, 2016
EXPIRATION DATE: April 11, 2021
SUPERSEDES: Permit No. WV0077461 dated June 28, 2011

LOCATION:	MOUNT STORM	Grant	N. Potomac River
	(City)	**(County)**	**(Drainage Basin)**

See the next page for a list of Outlets.

TO WHOM IT MAY CONCERN:

This is to certify that: VEPCO
5000 DOMINION BLVD
GLEN ALLEN, VA 23060

is hereby granted a West Virginia NPDES Water Pollution Control Permit to:
Maintain and monitor a closed industrial solid waste landfill.

Operate a disposal system (surface impoundment) for the direct discharge of treated stormwater runoff and leachate into the waters of Fourmile Run, a tributary of Stony River, a tributary of the North Branch of the Potomac River.

This permit is subject to the following terms and conditions :
The information submitted on and with Permit Application No. WV0077461 dated the 14th day of December 2015, Permit Application No. WV0077461 dated the 23rd day of August 2010, Permit Application No. WV0077461 dated the 16th day of December 2004, Permit Application No. WV0077461 dated the 29th day of March 1990, and the information submitted on and with Permit Modification Application No. IM-104 dated the 6th day of September 1984, and the additional information submitted on and with letters dated the 28th day of November 1984, the 18th day of January 1985, the 19th day of March 1985, the 10th day of April 1985, the 10th day of July 1985, the 21st day of March 2000, the 27th day of March 2001, the 19th day of August 2002, and the 12th day of January 2006 are all hereby made terms and conditions of this Permit with like effect as if all such permit application information was set forth therein, and other conditions set forth in Sections A, B, C, and Appendix A.

The validity of this permit is contingent upon the payment of the applicable annual permit fee, as required by Chapter 22, Article 11, Section 10 of the Code of West Virginia.

Inspectable Unit	Latitude	Longitude	Receiving Stream	Dist. to Stream Mouth (in Mile)	Milepost
006	39°11'42"	79°17'30"	Unnamed Tributary Of STONY RV	N/A	N/A
LM1	39°11'42"	79°17'31"	N/A	N/A	N/A
MW1	39°11'33"	79°17'12"	N/A	N/A	N/A
MWG1	39°11'42"	79°17'25"	N/A	N/A	N/A
MWG2	39°11'21"	79°17'45"	N/A	N/A	N/A
MWG4	39°11'15"	79°17'27"	N/A	N/A	N/A
MWG5	39°11'24"	79°17'38"	N/A	N/A	N/A
MWG6	39°11'34"	79°17'35"	N/A	N/A	N/A

A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	50 Max. Daily	mg/l	1/month	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A) See Condition C.14.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	0.23 Avg. Monthly	0.75 Max. Daily	mg/l	1/month	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	0.92 Avg. Monthly	2.71 Max. Daily	mg/l	1/month	Grab
61425 - (Acute Tox - Ceriodaphnia Dub (Year Round) (ML-1) (RF-C) See Condition C.13.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
61427 - (Acute Toxicity - Pimephales) (Year Round) (ML-1) (RF-C) See Condition C.13.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 006, a 12" PVC Pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
11123 - (Total Recov. Manganese) (Year Round) (ML-1) (RF-C) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 006, a 12" PVC Pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.LM1 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee is authorized to discharge from Outlet Number(s) LM1 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	S.U.	1/6 months	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01062 - (Molybdenum, Total (as Mo)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01092 - (Zinc, Total (as Zn)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

LM1 - Grab samples consisting of equal volumes of the discharges from Seep 1 prior to chemical treatment and North Slope Headers 1-10 shall be combined and analyzed.

A.MW1 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee will monitor Well Number(s) MW1 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW1

A.MW1 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee will monitor Well Number(s) MW1 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW1

A.MWG1 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee will monitor Well Number(s) MWG1 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MWG1

A.MWG1 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee will monitor Well Number(s) MWG1 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MWG1

A.MWG2 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee will monitor Well Number(s) MWG2 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MWG2

A.MWG2 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee will monitor Well Number(s) MWG2 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MWG2

A.MWG4 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee will monitor Well Number(s) MWG4 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units	Other Units			Units		
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MWG4

A.MWG4 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee will monitor Well Number(s) MWG4 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MWG4

A.MWG5 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee will monitor Well Number(s) MWG5 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MWG5

A.MWG5 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee will monitor Well Number(s) MWG5 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MWG5

A.MWG6 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee will monitor Well Number(s) MWG6 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	2 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MWG6

A.MWG6 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2016 and lasting through midnight 4/11/2021 the permittee will monitor Well Number(s) MWG6 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MWG6

B. SCHEDULE OF COMPLIANCE

1. **The permitee shall achieve compliance with the provisions for waste treatment and the monitoring requirements specified in the permit in accordance with the following schedule :**

   Effective date of permit.

2. **Reports of compliance or non-compliance with, and progress reports on interim and final requirements contained in the above compliance schedule, if any, shall be postmarked no later than 14 days following each schedule date.**

Section C - Other Requirements

1. No additional disposal of waste materials may be effected.
2. Monitoring Well Reporting

a. The permittee shall submit 1/6 months as required by Condition C.3.a, Monitoring Well Reports indicating in terms of concentration the values of the constituents listed. One hundred twenty (120) days shall transpire between sampling events. If concentration levels are found to be below method detection limits, so note and report the specific method detection limit. Metals concentrations shall be reported as dissolved.

b. Water levels shall be obtained prior to pumping or sampling using the wetted tape method or an electronic detector.

c. Stagnant water shall be removed from the well bore prior to sampling so that a representative sample may be obtained. Purging of the wells shall be effected utilizing standard low-flow protocols. Water shall be removed and water quality parameters (temperature, pH, specific conductance) shall be measured over five minute intervals until stabilized water quality values have been achieved (e.g., when values are within 10% of each other for three consecutive sets of readings). Removal of water for the low-flow process should not exceed .3 liters per minute. Care should be taken not to cause excessive drawdown of water level within the well. When hydrologic conditions cause this protocol to be impractical or difficult to accomplish, the permittee shall include an appropriate notation on the sampling field form. Values for pH, Temperature, and Specific Conductance obtained during purging shall be retained as stated in Appendix A, III.6.

d. The permittee shall determine the groundwater flow rate and direction in the uppermost significant aquifer at least annually. Said determinations shall be submitted with the annual report referenced in Condition C.3.b.

e. The permittee shall determine whether there is an interwell statistically significant increase over background levels for each parameter listed in Section A.MWG4 of this permit less pH, Total Suspended Solids, Specific Conductance and Temperature. To determine such, the permittee shall compare groundwater quality in wells MW-1, MWG-1, MWG-2, MWG-5, and MWG-6 with monitoring well MWG4. Said statistical determinations shall be submitted concurrently with the Monitoring Well Report. If the permittee determines that there is a statistically significant increase over background for any parameter listed in Section A.MWG4 of this permit, he shall indicate concurrent with the submission of the Monitoring Well Report which parameters have shown the statistically significant increase and comply with the requirements of Section 4.11.b.4 of 33CSR1, Solid Waste Management Rule.

f. The permittee shall establish background groundwater quality for each of the monitoring parameters indicated in Section A.MWG4. The minimum number of samples used to establish background groundwater quality must be consistent with the appropriate statistical procedures referenced in Condition C.2.g.

g. The permittee must employ one of the following statistical procedures in combination with the appropriate sampling requirements to determine a statistically significant increase:

(1) A parametric analysis of variance (ANOVA) followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The procedure must include estimation and testing of the contrasts between each down gradient well's mean and the background mean level for each constituent;

(2) An analysis of variance based on ranks followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The procedure must include estimation and testing of the contrasts between each down gradient well's mean and the background mean level for each constituent;

(3) Tolerance or prediction interval procedure in which a tolerance interval for each constituent is established from the distribution of the background data, and the level of each constituent is established from the distribution of the background data, and the level of each constituent in each down gradient well is compared to the upper tolerance or prediction limit; or

(4) A control chart approach that gives control limits for each constituent.

Section C - Other Requirements

2. h. The Director may establish an alternative sampling procedure and statistical test for any of the constituents listed in the permit, as required to protect human health and the environment.

i. If there is a statistically significant increase over background concentrations for any groundwater parameter listed in Section A, less pH, Total Suspended Solids, Specific Conductance, and Temperature, the permittee must do the following:

(1) Within fourteen (14) days, place a notice in the operating record indicating which constituents have shown statistically significant changes from background levels and notify the Secretary that this notice was placed in the operating record.

(2) Within a thirty (30) day period of said finding, the permittee may repeat the sampling of the groundwater in the appropriate monitoring well(s) in accordance with the requirements of this permit or proceed with Condition C.2.i.(4).

(3) If the repeat sampling indicates that there is not a statistically significant increase over the background for the respective pollutant, the permittee shall continue sampling as required by this permit.

(4) If the background statistically significant increase is confirmed, the permittee shall establish and implement a Phase II assessment monitoring program meeting the requirements of 33 CSR 1, Section 4.11.c within ninety (90) days of said confirmation or demonstrate other source determination in accordance with 33 CSR 1, Section 4.11.b.5.

(5) If the concentrations of all Phase II constituents are shown to be at or below background values, using the statistical procedures described above for two consecutive sampling events, the permittee must notify the Secretary of this finding and may return to Phase I detection monitoring.

(6) If the concentrations of any Phase II constituents are above background values, but all concentrations are below the groundwater protection standards, using the statistical procedures described above, the permittee must continue assessment monitoring in accordance with Phase II requirements.

j. The permittee shall not cause a statistically significant increase over the groundwater standards found in Title 47, Series 12, Requirements Governing Groundwater Standards. Should a groundwater quality standard be exceeded, the permittee shall provide the following:

(1) Within ninety (90) days of a finding that any of the constituents listed in the permit have been detected at a statistically significant level exceeding the groundwater protection standards, the permittee must initiate an assessment of corrective measures in accordance with 33 CSR 1, Section 4.11.e.

(2) Based on the results of the corrective measures assessment conducted pursuant to 33 CSR 1, Section 4.11.e, the permittee must select a remedy that, at a minimum, meets the standards listed in 33 CSR 1, Sections 4.11.f.2 and 4.11.f.3. The permittee must notify the Secretary, within fourteen (14) days of selecting a remedy, by sending him or her a report describing the selected remedy, stating that it has been placed in the operating record, and describing how it meets the standards in 33 CSR 1, Sections 4.11.f.2 and 4.11.f.3. Further, the permittee shall specify as part of the selected remedy a schedule(s) for initiating and completing remedial activities in accordance with 33 CSR 1, Section 4.11.f.4.

(3) The Secretary may determine that remediation of a Phase II constituent is not necessary if the permittee can successfully demonstrate to the Secretary conditions found in 33 CSR 1, Section 4.11.f.5. However, any determination by the Secretary pursuant to 33 CSR 1, Section 4.11.f.5 cannot affect the authority of the state to require the permittee to undertake source control measures or other measures that may be necessary to eliminate or minimize further releases to the groundwater, to prevent exposure to the groundwater, or to remediate the groundwater to concentrations that are technically practicable and significantly reduce threats to human health or the environment.

(4) In accordance with 33 CSR 1, Section 4.11.g, the permittee shall implement the corrective action program based on the schedule required by 33 CSR 1, Sections 4.11.f.4 and 4.11.g.

3. Reporting

Section C - Other Requirements

3. a. Monitoring reports for the inspectable units referenced on page 2 of this permit shall be submitted to the agency's electronic discharge monitoring report system and shall be received no later than the twentieth (20) day following the end of the reporting period.

   b. Annual Report. An annual report is to be submitted for the previous calendar year to the addresses indicated in Condition C.10 or to the agency's electronic reporting system before March 31 of the following year and shall include the following information:

      (1) Summary of the previous year's monitoring activities, including discharge rates, expressed in gallons per minute, for horizontal drains located within the north, east, and west slopes of the disposal area, and depths to water and total depths for each piezometer located within the north, east, and west slopes of the disposal area; and

      (2) A brief narrative describing the status of the facility which shall indicate any remedial activities, construction activities, and routine maintenance at the facility, and/or maintenance of the facility; and

      (3) The information required by Condition C.2.d.

4. Colorimetric analytical methods, as specified in 40CFR Part 136, shall not be utilized (see Appendix A, Section III.3).

5. The permittee shall inspect prior to the spring and fall planting seasons the vegetative cover of the landfill surface. Areas that are deficient of vegetative cover shall be re-seeded to establish a satisfactory stand of vegetation if a 90% or greater cover of perennial grasses or legumes has not been established.

6. The permittee shall monthly examine closed portions of the landfill surface for: 1) evidence of cracking or erosion which could allow water to enter solid waste deposits, and 2) evidence of settling of solid waste causing ponding of surface water. Finished surfaces which have cracked, eroded, or settled, shall be repaired by any necessary regrading, additions of cover material, and re-vegetation activities.

7. The following activities are prohibited unless specifically approved by the Director of the Division of Water and Waste Management of the Department of Environmental Protection.

   a. Use of the facility for agricultural purposes.

   b. Establishment or construction of any buildings.

   c. Excavation of the final cover or any waste materials.

8. Any "not detected (ND)" sampling result obtained by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and shall be reported on the DMR as less than the MDL used (<MDL). The permittee shall not report a sampling result as Zero or "ND" or report the result as less than a minimum level (ML), reporting limit (RL), or practical quantitation limit (PQL).
   When averaging values of analytical results for DMR reporting purposes for monthly averages, the permittee should use the actual analytical results when these results are greater than or equal to the MDL and should use zero (0) when these results are less than the MDL. If all analytical results are non-detect at the MDL (<MDL), then the permittee should use the actual MDL in the calculation for averaging and report the result as less than the average calculation.

9. Following treatment with aluminum based flocculants, the permittee shall analyze the Total Recoverable Aluminum concentration of the effluent discharging from Outlet No. 006. For this purpose, grab samples shall be obtained immediately after the discharge begins. Analytical results shall be forwarded within one month of sampling as required by Condition C.3.a.

10. Submission of information other than the monitoring reports specified in Condition C.3.a. shall be submitted to:

```
Director                          Div. of Water & Waste Mgmt.
Div. of Water & Waste Mgmt.       2031 Pleasant Valley Road
601 57th Street, SE               Fairmont, WV 26554
Charleston, West Virginia 25304   Attn:  John Britvec, Geologist
Attn: Waste Permitting Section
```

Section C - Other Requirements

11. The permittee shall maintain in good operating condition all existing sediment and erosion control structures. Settled solids shall be removed from sediment and erosion control structures when these solids accumulate to 60% of the structure's total capacity or when re-suspension of solids begins, whichever occurs first.

12. In incindences where a specific test method is not defined, the permittee shall utilize an EPA approved method with a method detection limit (MDL) sensitive enough to confirm compliance with the permit effluent limit for that parameter. If an MDL is not sensitive enough to confirm compliance, the most sensitive method must be used. If a more sensitive EPA approved method becomes available, that method shall be used. Should the current and/or new method not be sensitive enough to confirm compliance with the permitted effluent limit, analytical results reported as "non detected" at the MDL of the most sensitive method available will be deemed compliant for purposes of permit compliance. Results shall be reported on the Discharge Monitoring Reports as a numeric value less than the MDL.

13. The permittee shall perform acute effluent toxicity testing in accordance with the following.

    a. The acute effluent toxicity testing prescribed, herein, shall be 48-hour static acute toxicity tests utilizing Pimephales Promelas and Ceriodaphnia Dubia as the test species.

    b. The acute toxicity testing shall be performed on a 1/6 month basis with the first acute toxicity testing being carried out within three (3) months from the effective date of the permit for Outlet 006. There shall be a minimum of three (3) months between 1/6 months sampling events.

    c. Eight (8) hour flow weighted composite samples of the effluent, as prescribed in Appendix A, Section III.7.d), shall be collected for testing.

    d. Testing and reporting of the result shall be performed in accordance with 40 CFR 136 or other approved methods and shall be submitted with the Discharge Monitoring Report (DMR) for the month following the end of the reporting period. LC50 shall be converted into Acute Toxic Units (TUa) using the following formula:

       TUa = 100/LC50
       For example, if LC50 is 100%, then TUa = 100/100 = 1.

       i) When the effluent demonstrates no toxicity at 100% effluent (no organisms die), the permittee may report zero (0) TUa.

       ii) An effluent that causes some mortality but less than 50% mortality at 100% effluent on a species is still deemed to have some toxicity. As such, the permittee shall not report zero (0) in this case, but shall report the result as less than one (1) TUa.

       iii) For DMR reporting purposes, when determining the monthly average TUa on a mixed data set (i.e., a data set consisting of some real values and some less than values), the permittee shall use actual toxicity results when these results are greater than or equal to one (1) TUa and shall use zero (0) when these results are less than one (1) TUa (i.e., <1 and 0 TUa results). If all analytical results are less than one (1) TUa, in accordance with C.13.d(ii) above, then the permittee shall report the average monthly result as less than one (1) TUa.

       iv) Any result reported as less than one (1) TUa shall be deemed to be compliant with both the average monthly and maximum daily toxicity effluent limitations prescribed in Section A of this permit.

14. The limitation for pH is 6.0 Standard Units minimum.

15. The sample frequency of 1/quarter shall be defined as a minimum of one sample taken in each of the following periods: January 1 - March 31; April 1 - June 30; July 1 - September 30; October 1 - December 31.

16. The sample frequency of 1/6 months shall be defined as a minimum of one sample taken every six months, beginning with the effective date of the permit.

The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0077461; with the plan of maintenance and method of operation thereof submitted with such application(s); and with any applicable rules and regulations promulgated by the Environmental Quality Board and the Secretary of the Department of Environmental Protection.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0077461; and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and the invocation of all the enforcement procedures set forth in Chapter 22, Article 11, or 15 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Chapter 22, Article 11 and 12 and/or 15 of the Code of West Virginia and is transferable under the terms of Section 11 of Article 11.

Scott G. Mandirola, Director

Appendix A

I. MANAGEMENT CONDITIONS:

1. Duty to Comply

a) The permittee must comply with all conditions of this permit. Permit noncompliance constitutes a violation of the CWA and State Act and is grounds for enforcement action; for permit modification, revocation and reissuance, suspension or revocation; or for denial of a permit renewal application.

b) The permittee shall comply with all effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

2. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit at least 180 days prior to expiration of the permit.

3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment.

4. Permit Actions

This permit may be modified, revoked and reissued, suspended, or revoked for cause. The filing of a request by the permittee for permit modification, revocation and reissuance, or revocation, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

5. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

6. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified as required in Title 47, Series 10 , Section 4.6 of the West Virginia Legislative Rules.

7. Transfers

This permit is not transferrable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.

8. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable specified time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, suspending, or revoking this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

9. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

10. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

a) Enter upon the permittee's premises in which an effluent source or activity is located, or where records must be kept under the conditions of this permit;

b) Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit;

c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the State Act, any substances or parameters at any location.

11. Permit Modification

This permit may be modified, suspended, or revoked in whole or in part during its term in accordance with the provisions of Chapter 22-11-12 or 22-15-15 (if Solid Waste/NPDES Permit) of the Code of West Virginia.

12. Water Quality

Subject to 47WV CSR 10.3.4.a, the effluent or effluents covered by this permit are to be of such quality so as not to cause violation of applicable water quality standards adopted by the Environmental Quality Board.

13. Outlet Markers

A permanent marker at the establishment shall be posted in accordance with Title 47, Series 11, Section 9 of the West Virginia Legislative Rules.

14. Liabilities

a) Any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed $25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, 308 or 405 of the Clean Water Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than 1 year, or both.

b) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 2 years, or by both.

c) Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 2 years, or by both.

d) Nothing in I.14 a), b), and c) shall be construed to limit or prohibit any other authority the Director may have under the State Water Pollution Control Act, Chapter 22, Article 11.

II. OPERATION AND MAINTENANCE:

1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls, and appropriate quality assurance procedures. Unless otherwise required by Federal or State law, this provision requires the operation of back-up auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of the permit. For domestic waste treatment facilities, waste treatment operators as classified by the WV Bureau of Public Health Laws, W. Va. Code Chapter 16-1, will be required except that in circumstances where the domestic waste treatment facility is receiving any type of industrial waste, the Director may require a more highly skilled operator.

2. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

3. Bypass

a) Definitions

(1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility; and

(2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of II.3.c) and II.3.d) of this permit.

c) (1) If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass;

(2) If the permittee does not know in advance of the need for bypass, notice shall be submitted as required in IV.2.b) of this permit.

d) Prohibition of bypass

(1) Bypass is permitted only under the following conditions, and the Director may take enforcement action against a permittee for a bypass, unless;

(A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and

(C) The permittee submitted notices as required under II.3.c) of this permit.

(2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in II.3.d.(1) of this permit.

4. Upset

a) Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitation if the requirements of II.4.c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An upset occurred and that the permittee can identify the cause(s) of the upset;

(2) The permitted facility was at the time being properly operated;

(3) The permittee submitted notice of the upset as required in IV.2.b) of this permit.

(4) The permittee complied with any remedial measures required under I.3. of this permit.

d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

5. Removed Substances

Where removed substances are not otherwise covered by the terms and conditions of this permit or other existing permit by the Director, any solids, sludges, filter backwash or other pollutants (removed in the course of treatment or control of wastewaters) and which are intended for disposal within the State, shall be disposed of only in a manner and at a site subject to the approval by the Director. If such substances are intended for disposal outside the State or for reuse, i.e., as a material used for making another product, which in turn has another use, the permittee shall notify the Director in writing of the proposed disposal or use of such substances, the identity of the prospective disposer or users, and the intended place of disposal or use, as appropriate.

III. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. Reporting

a) Permittee shall submit, according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration, and/or quantities, the values of the constituents listed in Part A analytically determined to be in the plant effluent(s). DMR submissions shall be made in accordance with the terms contained in Section C of this permit.

b) Enter reported average and maximum values under "Quantity" and "Concentration" in the units specified for each parameter, as appropriate.

c) Specify the number of analyzed samples that exceed the allowable permit conditions in the columns labeled "N.E." (i.e., number exceeding).

d) Specify frequency of analysis for each parameter as number of analyses/specified period (e.g.,3/month is equivalent to 3 analyses performed every calendar month). If continuous, enter "Cont.". The frequency listed on format is the minimum required.

3. Test Procedures

Samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136, unless other test procedures have been specified elsewhere in this permit.

4. Recording of Results

For each measurement or sample taken pursuant to the permit, the permittee shall record the following information.

a) The date, exact place, and time of sampling or measurement;

b) The date(s) analyses were performed;

c) The individual(s) who performed the sampling or measurement;

d) The individual(s) who performed the analyses; if a commercial laboratory is used, the name and address of the laboratory;

e) The analytical techniques or methods used, and

f) The results of such analyses. Information not required by the DMR form is not to be submitted to this agency, but is to be retained as required in III.6.

5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at any monitoring point specified in this permit more frequently than required by this permit, using approved test procedures or others as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

6. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

7. Definitions

a) "Daily discharge" means the discharge of a pollutant measured during a calendar day or within any specified period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the day.

b) "Average monthly discharge limitation" means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

c) "Maximum daily discharge limitation" means the highest allowable daily discharge.

d) "Composite Sample" is a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates or the sampling interval (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite. The maximum time period between individual samples shall be two hours.

e) "Grab Sample" is an individual sample collected in less than 15 minutes.

f) "is" = immersion stabilization - a calibrated device is immersed in the effluent stream until the reading is stabilized.

g) The "daily average temperature" means the arithmetic average of temperature measurements made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month, or during the operating month if flows are of shorter duration.

h) The "daily maximum temperature" means the highest arithmetic average of the temperatures observed for any two (2) consecutive hours during a 24 hour day, or during the operating day if flows are of shorter duration.

i) The "monthly average fecal coliform" bacteria is the geometric average of all samples collected during the month.

j) "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or which a relationship to absolute volume has been obtained.

k) "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.

l) "Non-contact cooling water" means the water that is contained in a leak-free system, i.e., no contact with any gas, liquid, or solid other than the container for transport; the water shall have no net poundage addition of any pollutant over intake water levels, exclusive of approved anti-fouling agents.

IV. OTHER REPORTING

1. Reporting Spills and Accidental Discharges

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to Title 47, Series 11, Section 2 of the West Virginia Legislative Rules promulgated pursuant to Chapter 22, Article 11.

Attached is a copy of the West Virginia Spill Alert System for use in complying with Title 47, Series 11, Section 2 of the Legislative rules as they pertain to the reporting of spills and accidental discharges.

2. Immediate Reporting

a) The permittee shall report any noncompliance which may endanger health or the environment immediately after becoming aware of the circumstances by using the Agency's designated spill alert telephone number. A written submission shall be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

b) The following shall also be reported immediately:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit;

(2) Any upset which exceeds any effluent limitation in the permit; and

(3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit to be reported immediately. This list shall include any toxic pollutant or hazardous substance, or any pollutant specifically identified as the method to control a toxic pollutant or hazardous substance.

c) The Director may waive the written report on a case-by-case basis if the oral report has been received in accordance with the above.

d) Compliance with the requirements of IV.2 of this section, shall not relieve a person of compliance with Title 47, Series 11, Section 2.

3. Reporting Requirements

a) Planned changes. The permittee shall give notice to the Director of any planned physical alterations or additions to the permitted facility which may affect the nature or quantity of the discharge. Notice is required when:

(1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in Section 13.7.b of Series 10, Title 47; or

(2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under IV.2 of this section.

b) Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

c) In addition to the above reporting requirements, all existing manufacturing, commercial, and silvicultural discharges must notify the Director in writing as soon as they know or have reason to believe:

(1) That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, or any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

(A) One hundred micrograms per liter (100 ug/l);

(B) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitro phenol; and for 2-methyl 4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

(C) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.9 of Series10, Title 47.

(D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47;

(2) That any activity has occurred or will occur which would result in any discharge (on a non-routine or infrequent basis) of a toxic which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

(A) Five hundred micrograms per liter (500 ug/l);

(B) One milligram per liter (1 mg/l) for antimony;

(C) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.7 of Series 10, Title 47;

(D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47.

(3) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a routine or frequent basis of that toxic pollutant at levels which exceed five times the detection limit for that pollutant under approved analytical procedure.

(4) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a non-routine or infrequent basis of that toxic pollutant at levels which exceed ten times the detection limit for that pollutant under approved analytical procedure.

4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under the above paragraphs at the time monitoring reports are submitted. The reports shall contain the information listed in IV.2.a). Should other applicable noncompliance reporting be required, these terms and conditions will be found in Section C of this permit.

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: 006
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mgd		1/month	Estimated
Year Round													
00530 (ML-1) RF-A	Reported												
Total Suspended Solids	Permit Limits	N/A	N/A			N/A	N/A	50 Max. Daily	N/A	mg/l		1/month	Grab
Year Round													
00400 (ML-1) RF-A	Reported												
pH	Permit Limits	N/A	N/A			6 Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/month	Grab
Year Round													
01104 (ML-1) RF-A	Reported												
Aluminum, Total Recoverable	Permit Limits	N/A	N/A			N/A	0.23 Avg. Monthly	0.75 Max. Daily	N/A	mg/l		1/month	Grab
Year Round													
00980 (ML-1) RF-A	Reported												
Iron, Total Recoverable	Permit Limits	N/A	N/A			N/A	0.92 Avg. Monthly	2.71 Max. Daily	N/A	mg/l		1/month	Grab
Year Round													
61425 (ML-1) RF-C	Reported												
Acute Tox - Ceriodaphnia Dubia	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	TUa		1/6 months	8 hr comp
Year Round													
61427 (ML-1) RF-C	Reported												
Acute Toxicity - Pimephales	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	TUa		1/6 months	8 hr comp
Year Round													
01022 (ML-1) RF-C	Reported												
Boron, Total (as B)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: 006
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
11123 (ML-1) RF-C	Reported												
Total Recov. Manganese	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
81020 (ML-1) RF-C	Reported												
Sulfate	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
LEACHATE ANALYSIS REPORT

FACILITY NAME: (LM1 - Grab samples consisting of equal volumes of the discharges i
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: LM1
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00400 (ML-1) RF-C	Reported												
pH	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	S.U.		1/6 months	Grab
Year Round													
01002 (ML-1) RF-C	Reported												
Arsenic, Total (as As)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
01062 (ML-1) RF-C	Reported												
Molybdenum, Total (as Mo)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
01092 (ML-1) RF-C	Reported												
Zinc, Total (as Zn)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
									N/A				
									N/A				
									N/A				
									N/A				

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
MONITORING WELL REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: MW1
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00400 (ML-O) RF-C pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
00095 (ML-O) RF-C Specific Conductance Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	2 Max. Daily	N/A	mg/l		1/6 months	Grab
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00011 (ML-O) RF-C Temperature, F Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	DEG.F		1/6 months	Grab
81020 (ML-O) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
MONITORING WELL REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: MW1
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01020 (ML-O) RF-C	Reported												
Boron, Dissolved (as B)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
70296 (ML-O) RF-C	Reported												
Total Dissolved Solids (TDS)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
MONITORING WELL REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: MWG1
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
00530 (ML-O) RF-C	Reported												
Total Suspended Solids	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
00400 (ML-O) RF-C	Reported												
pH	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
Year Round													
00095 (ML-O) RF-C	Reported												
Specific Conductance	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab
Year Round													
01005 (ML-O) RF-C	Reported												
Barium, Dissolved (as Ba)	Permit Limits	N/A	N/A			N/A	N/A	2 Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
01046 (ML-O) RF-C	Reported												
Iron, Dissolved (as Fe)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
01056 (ML-O) RF-C	Reported												
Manganese, Diss. (as Mn)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
00011 (ML-O) RF-C	Reported												
Temperature, F	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	DEG.F		1/6 months	Grab
Year Round													
81020 (ML-O) RF-C	Reported												
Sulfate	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations	Date Completed
Title of Office:		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
MONITORING WELL REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: MWG1
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01020 (ML-O) RF-C	Reported												
Boron, Dissolved (as B) Year Round	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
70296 (ML-O) RF-C	Reported												
Total Dissolved Solids (TDS) Year Round	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
MONITORING WELL REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: MWG2
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N E				CEL*	Units	N E		
00530 (ML-O) RF-C	Reported												
Total Suspended Solids	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
00400 (ML-O) RF-C	Reported												
pH	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
Year Round													
00095 (ML-O) RF-C	Reported												
Specific Conductance	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab
Year Round													
01005 (ML-O) RF-C	Reported												
Barium, Dissolved (as Ba)	Permit Limits	N/A	N/A			N/A	N/A	2 Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
01046 (ML-O) RF-C	Reported												
Iron, Dissolved (as Fe)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
01056 (ML-O) RF-C	Reported												
Manganese, Diss. (as Mn)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
00011 (ML-O) RF-C	Reported												
Temperature, F	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	DEG.F		1/6 months	Grab
Year Round													
81020 (ML-O) RF-C	Reported												
Sulfate	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
MONITORING WELL REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: MWG2
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01020 (ML-O) RF-C	Reported												
Boron, Dissolved (as B) Year Round	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
70296 (ML-O) RF-C	Reported												
Total Dissolved Solids (TDS) Year Round	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
MONITORING WELL REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: MWG4
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00400 (ML-O) RF-C pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
00095 (ML-O) RF-C Specific Conductance Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00011 (ML-O) RF-C Temperature, F Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	DEG.F		1/6 months	Grab
81020 (ML-O) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
MONITORING WELL REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: MWG4
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01020 (ML-O) RF-C	Reported												
Boron, Dissolved (as B)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
70296 (ML-O) RF-C	Reported												
Total Dissolved Solids (TDS)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
MONITORING WELL REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: MWG5
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00400 (ML-O) RF-C pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
00095 (ML-O) RF-C Specific Conductance Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	2 Max. Daily	N/A	mg/l		1/6 months	Grab
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00011 (ML-O) RF-C Temperature, F Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	DEG.F		1/6 months	Grab
81020 (ML-O) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
MONITORING WELL REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: MWG5
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
01020 (ML-O) RF-C Boron, Dissolved (as B) Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily					
70296 (ML-O) RF-C Total Dissolved Solids (TDS) Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily					
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
MONITORING WELL REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: MWG6
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N E				CEL*	Units	N E		
00530 (ML-O) RF-C Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00400 (ML-O) RF-C pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
00095 (ML-O) RF-C Specific Conductance Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	UMHO/CM		1/6 months	Grab
01005 (ML-O) RF-C Barium, Dissolved (as Ba) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	2 Max. Daily	N/A	mg/l		1/6 months	Grab
01046 (ML-O) RF-C Iron, Dissolved (as Fe) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01056 (ML-O) RF-C Manganese, Diss. (as Mn) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00011 (ML-O) RF-C Temperature, F Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	DEG.F		1/6 months	Grab
81020 (ML-O) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

WRD 2A-82

Final Limitations

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
MONITORING WELL REPORT

FACILITY NAME: (Closed Five Year Storage Disposal Facility) VEPCO
LOCATION OF FACILITY: MOUNT STORM; Grant County
PERMIT NO.: WV0077461 OUTLET NO.: MWG6
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01020 (ML-O) RF-C	Reported												
Boron, Dissolved (as B)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
70296 (ML-O) RF-C	Reported												
Total Dissolved Solids (TDS)	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				
									N/A				

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

EMERGENCY RESPONSE SPILL ALERT SYSTEM
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

REQUIREMENTS:

Title 47, Series 11, Section 2 of the West Virginia Legislative Rules, Environmental Protection, Water Resources - Waste Management, Effective July 1, 1994.

RESPONSIBILITY FOR REPORTING:

Each and every person who may cause or be responsible for any spill or accidental discharge of pollutants into the waters of the State shall give immediate notification to the Division of Water and Waste Management's Emergency Notification Number, 1-800-642-3074. Such notification shall set forth insofar as possible and as soon thereafter as practical the time and place of such spill or discharge, type or types and quantity or quantities of the material or materials therein, action or actions taken to stop such spill or discharge and to minimize the polluting effect thereof, the measure or measures taken or to be taken in order to prevent a recurrence of any such spill or discharge and such additional information as may be requested by the Division of Water and Waste Management. This also applies to spills to the waters of the State resulting from accidents to common carriers by highway, rail and water.

It shall be the responsibility of each industrial establishment or other entity discharging directly to a stream to have available the following information pertaining to those substances that are employed or handled in its operation in sufficiently large amounts as to constitute a hazard in case of an accidental spill or discharge into a public stream:

(1) Potential toxicity in water to man, animals and aquatic life;
(2) Details on analytical procedures for the quantitative estimation of such substances in water and
(3) Suggestions on safeguards or other precautionary measures to nullify the toxic effects of a substance once it has gotten into a stream.

Failure to furnish such information as required by Section 14, Article 11, Chapter 22, Code of West Virginia may be punishable under Section 24, Article 11, Chapter 22, and/or Section 22, Article 11, Chapter 22, Code of West Virginia.

It shall be the responsibility of any person who causes or contributes in any way to the spill or accidental discharge of any pollutant or pollutants into State waters to immediately take any and all measures necessary to contain such spill or discharge. It shall further be the responsibility of such person to take any and all measures necessary to clean-up, remove and otherwise render such spill or discharge harmless to the waters of the State.

When the Director determines it necessary for the effective containment and abatement of spills and accidental discharges, the Director may require the person or persons responsible for such spill or discharge to monitor affected waters in a manner prescribed by the Director until the possibility of any adverse effect on the waters of the State no longer exists.

VOLUNTARY REPORTING BY LAW OFFICERS, U. S. COAST GUARD, LOCK MASTERS AND OTHERS:

In cases involving river and highway accidents where the responsible party may or may not be available to report the incident, law officers, U. S. Coast Guard, Lock Masters and other interested person(s) should make the report.

WHO TO CONTACT:
Notify the following number: **1-800-642-3074**

INFORMATION NEEDED:
- Source of spill or discharge
- Location of incident
- Time of incident
- Material spilled or discharged
- Amount spilled or discharged
- Toxicity of material spilled or discharged
- Personnel at the scene
- Actions initiated
- Shipper/Manufacturer identification
- Railcar/Truck identification number
- Container type

RIGHT OF APPEAL

Notice is hereby given of your right to appeal the terms and conditions of this permit which you are aggrieved by to the Environmental Quality Board by filing a NOTICE OF APPEAL on the form prescribed by such Board for this purpose, with the Board, in accordance with the provisions of Section 21, Article 11, Chapter 22 of the Code of West Virginia within thirty (30) days after the date of receipt of the above permit.

RECD JUN 02 2014 ABF

west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street SE
Charleston, WV 25304
Telephone Number: (304) 926-0495
Fax Number: (304) 926-0477

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.wvdep.gov

May 20, 2014

Ms. Cathy Taylor
VEPCO
5000 Dominion Boulevard
Glen Allen, VA 23060

Re: Modification No. 1 of Solid Waste/NPDES No. Permit No. WV0110256, Phase A and B Disposal Facility

Dear Ms. Taylor:

This serves as Modification No. 1 of the above referenced permit dated April 4, 2014, which is hereby modified to correct omissions and inconsistencies, as follows: 1) extend the interim compliance dates referenced in Sections A.012 and A.015 from May 31, 2016, to May 31, 2017, 2) add the April 3, 2019 expiration date to all Section A pages, 3) revise Section A.025 by eliminating the incorrect reference to Condition C.16 attached to the parameter Hexavalent Chromium, 4) revise the compliance dates referenced in Section B to correspond with the compliance dates referenced for each inspectable unit referenced in Section A and the compliance date referenced in Condition C.44, 5) revise Condition C.7.b by clarifying that the prohibition to construct buildings doesn't apply to construction of the wastewater treatment system referenced in Condition C.40, 6) revise Condition C.17 by clarifying that Discharge Monitoring Reports are to be submitted monthly for each of Outlets 016, 017, and 026 prior to their discharge by indicating "no discharge" on each Discharge Monitoring Report, 7) revise Conditions C.26 and C.27 to reference that the annual certification report may be submitted electronically, 8) revise Condition C.30.b. by eliminating the reference to Outlet No. 014 thereby coinciding with Condition C.14, 9) revise Condition C.30.d.iii) by changing the reference from C.32.d.(ii) to C.30.d.(ii), and 10) revise Condition C.45 to extend the time frame for complying with the final Aluminum effluent limitations from two to three years, consistent with Section A.015. As a result of these revisions, attached please find modified pages 5 of 130 through 119 of 130 and pages 122 of 130, 124 of 130, 125 of 130, 126 of 130, 127 of 130, and 129 of 130.

This modification will become effective immediately.

Sincerely,

Scott G. Mandirola
Director

SGM/jb

cc: Robin Dolly, Insp. Supv., NE Dist..
Mary Sanders, Insp. NE Dist.

REC'D APR 21 2014 ABF

west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street SE
Charleston, West Virginia 25304-2345
Phone: 304-926-0495
Fax: 304-926-0477

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

April 04, 2014

CATHY TAYLOR
VEPCO
5000 DOMINION BLVD
GLEN ALLEN, VA 23060

CERTIFIED RETURN RECEIPT REQUESTED

Dear Permittee:

Enclosed please find Solid Waste/NPDES Permit Number WV0110256 dated April 04, 2014.

In response to the comments to the draft permit submitted by letters dated the 2nd day of August 2012, and the 18th day of March 2014, this agency offers the following responses:

Comment No. 1 : Outlet No. 023

As Surface Impoundment No. 23 has been breached, Outlet No. 023 has been deleted from Section A and Condition C.48 has been deleted.

Comment No. 2 : Outlet Numbers 012 and 015

With regard to your comment that limitations are not appropriate for Outlets 012 and 015 because they flow into man-made ditches that are not fished for consumption nor used as a private or public drinking water source, this agency reiterates its 2006 position that the ditches are waters of the state and therefore, effluent limitations are appropriate for both outlets. Please note that although it is this agency's position that compliance with effluent limitations within two years of the effective date of the permit is consistent with 47 CSR10, Section 8.1., your letter dated January 15, 2013, provided a step-by-step plan and compliance schedule for meeting the limitations within three years of the effective date of the permit, and therefore, an additional year is warranted. Please note that the compliance schedule referenced in your letter has been included in Section B.

Regarding your comment that it is not appropriate to base reasonable potential determination for Selenium at Outlet 012 on analytical data that are below levels of acceptable quantitation, please be informed that reasonable potential determinations are based on laboratory analyses provided on Discharge Monitoring Reports (DMRs) without respect to quantitation levels.

Regarding your comment concerning Iron limitations at Outlet 012, please be informed that the agency has re-evaluated the limitation and has determined that there is no reasonable potential for Iron to exceed its water quality standard as Iron concentrations have consistently been well below its standard. Therefore, the agency concurs that the limitation referenced in the draft permit should be eliminated.

Comment No. 2 : Outlet Numbers 012 and 015 (cont'd)

With respect to dissolved Aluminum concentrations at Outlet 015, please note that new Condition C.45 has been added to the permit regarding your company's ability to conduct a site specific Aluminum translator study. Also, please note that as afforded by the additional public comment period the average monthly limitation for Aluminum at Outlet 015 has been increased from .37 mg/l to .75 mg/l.

Comment No. 3 : Outlet Numbers 012 and 015

After further consideration, you have determined that the average monthly and maximum daily Selenium limitations initially proposed (Outlet 012 - .004 mg/l and .0086 mg/l, respectively; Outlet 015 - .004 mg/l and .008 mg/l, respectively) are preferable to the average monthly and maximum daily limitations proposed during the additional public comment period (Outlets 012 and 015 - .005 mg/l and .005 mg/l, respectively) and have therefore requested that the initially proposed limitations be implemented.. This agency concurs with your request.

Comment No. 3 : Hexavalent Chromium Monitoring

Hexavalent Chromium has been added to the parameters listed in Conditions C.6 and C.16 to provide added clarity that monitoring for this parameter is not required until such time that the referenced impoundments begin receiving waters from the activities of interest. Similarly, Condition C.36 has been clarified.

Comment No. 4 : Sample Type for Total Nitrogen

Please note that the requirement to monitor Total Nitrogen has been deleted.

Comment No. 5 : Sections A.022 and A.024; Conditions C.26 and C.27 - Total Cyanide Monitoring

In response to your request to delete Total Cyanide monitoring at Outlets 022 and 024, a benchmark concentration equal to the method detection limit for Total Cyanide of .005 mg/l referenced in semi-annual Discharge Monitoring Reports has been added to Conditions C.26 and C.27. This will allow for the cessation of Total Cyanide monitoring when four consecutive samples obtained from Outlet 022 and 024 are less than .005 mg/l.

Comment No. 6 : Schedule of Compliance

The schedule has been revised to specify that the toxicity testing requirements are not subject to compliance within one month after permit issuance. Also, the compliance schedule referenced for Condition C.45 has been corrected to be consistent with the time schedule referenced in Condition C.45.

Comment No. 7 : Condition C.2.e. - Monitoring Well Reporting

This condition has been revised to reference the pooled groundwater data from background wells MWFGD-W2 and /or MW-22. Also, for consistently, "Semi-Annual Monitoring Well Report" has been changed to "Monitoring Well Report" and the prefix MW has been added to FGD Wells.

Comment No. 8 : Condition C.30.c - Toxicity Testing Requirements

This condition has been revised to reference Appendix A as it contains a definition of a composite sample.

Comment No. 9 : Condition C.30.d - Toxicity Testing Reporting

To align the reporting requirements with the eDMR system, this condition has been revised to reference toxicity testing results are to be submitted with the Discharge Monitoring Report (DMR) for the month following the end of the reporting period.

Comment No. 10 : Fact Sheet

With respect to your comment that the fact sheet should be revised to reference that proposed Surface Impoundment Numbers 016 and 017 (Outlets 016 and 017) are currently tentatively scheduled to be constructed in the 2018 - 2020 time frame instead of 2014 as referenced in the fact sheet, please be informed that no futher action is required as there is no change to the permit resulting from your comment.

Comment No. 11 : Outlet 015 - Chloride Monitoring

This agency concurs that Chloride monitoring was inadvertently included, and therfore, Chloride has been deleted from this Section.

Comment No. 12 : Conditions C.2.i.(2) and C.2.i.(4)

This agency concurs that the suggested changes to these conditions are approrpriate, and therefore, has revised the conditions accordingly.

Comment No. 13 : Condition C.6

As you requested, this condition has been revised to eliminate the reference to transmittal letter as a transmittal letter is not needed for the sumbission of information required by this condition.

Comment No. 14 : Condition C.7.

Please be informed that your understanding that the use of grass clippings generated from mowing activities around the station to stabilize disturbed areas at the landfill doesn't constitute the use of the landfill for agricultural purposes is correct.

Comment No. 15 : Condition C.25.

This agency concurs that Leachate Monitoring Point No. 8 should have been referenced, and therefore, has revised this condition accordingly.

Comment No. 16 : Conditions C.26 and C.27

This agency concurs that inclusion of the word "average" is appropriate and therefore, has revised these conditions accordingly. Also, the agency concurs that Nitrate + Nitrite and Phosphorus should be removed from the tables in these conditions as monitoring of these parameters is no longer required at Outlets 022 and 024. Furthermore, your understanding is correct that the clock on the "four consecutive samples" is not reset with the reissuance of the permit and therefore, data generated under the current permit can be used to compare against the benchmark parameters.

Comment No. 17 : Condition C.41

As the information submitted on and with letter dated January 15, 2013, satisfies the requirements of this condition, the agency concurs that it is should be deleted.

Comment No. 18 : New Borrow Area

Regarding your request to add a condition to Section C that recognizes the construction of a new borrow area referenced in your letter dated January 8, 2014, please be informed that such is not required as inclusion of the date of the letter on page two of the permit is approve the new borrow area.

Comment No. 19 : Typographical Errors

Please note that the typographical errors referenced in your comments have been corrected.

Please note that a Discharge Monitoring Report (DMR) is to be completed and submitted to this Division each month.

Finally note that copies of all future correspondence regarding the permit must be forwarded to the Field Inspector and Field Supervisor at the following address:

Department of Environmental Protection
Environmental Enforcement
22288 Northwestern Pike
Romney, WV 26757

Also, please note the attachment to this permit which describes the annual permit fee requirement. Reissuance of your permit does not change the annual fee billing cycle.

Sincerely,

Scott G. Mandirola
Director

SGM:jb

Enclosures

Permit Number: WV0110256

Permittee: VEPCO

cc: Env. Insp. Supv.
Env. Insp.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT
601 57TH STREET SE
CHARLESTON, WV 25304-2345

SOLID WASTE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WATER POLLUTION CONTROL PERMIT

NPDES PERMIT NO.: WV0110256
SUBJECT: Solid Industrial Waste

ISSUE DATE: April 04, 2014
EFFECTIVE DATE : June 01, 2014
EXPIRATION DATE: April 03, 2019
SUPERSEDES: Permit No. WV0110256 dated August 03, 2006

LOCATION:	MOUNT STORM	Grant	N. Potomac River
	(City)	**(County)**	**(Drainage Basin)**

See the next page for a list of Outlets.

TO WHOM IT MAY CONCERN:

This is to certify that: VEPCO
5000 DOMINION BLVD
GLEN ALLEN, VA 23060

is hereby granted a West Virginia NPDES Water Pollution Control Permit to:

1. Construct and operate a disposal system (industrial solid waste landfill), referenced as the Phase A FGD By-Product Disposal Facility, in the drainage basin of an unnamed tributary of Mount Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River, for the disposal of: 1) flue gas desulphurization system (FGD) wastes generated at the Mt. Storm Power Station; 2) materials derived from the clean out of the Phase A FGD By-Product Disposal Facility's North and South Leachate Storage Impoundments and Phase A Surface Impoundments 16 and 17, 3) materials derived from the Phase A FGD By-Product wastewater treatment system, and 4) materials derived from the metal cleanings surface impoundment located at the Mt. Storm Power Station.

2. Construct and operate a disposal system (industrial solid waste landfill), referenced as the Phase B Disposal Area, in the drainage basin of Mt. Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River, for the disposal of 1) flyash; bottom ash; pit ash; pyrites; construction /demolition materials; waste materials derived from general housecleaning, maintenance and/or repair work (rock, waste coal, coal/sediment fines, and gravel); materials derived from the clean out of the metal cleanings surface impoundment; and materials derived from the cleanout of the low volume water surface impoundments; all of which are generated at the Mt. Storm Power Station; 2) materials derived from the clean out of Leachate Surface Impoundment "B" regulated by Solid Waste/NPDES Water Pollution Control Permit No. WV0077461; 3) materials derived from the clean out of Phase B Surface Impoundment Numbers 14 and 15, Phase A Surface Impoundment Numbers 12 and 25, Borrow area Surface Impoundment Numbers 13 and 26, 4) materials derived from the former Buffalo Coal Company Surface Impoundment Numbers 1 and 2 operating under authority of /NPDES Permit No. WV0098744, 5) rock and soil materials derived from the repair of the Buffalo Coal Company haulroad located on VEPCO property operating under authority of WV/NPDES Permit No. WV0098744, and 6) the following materials derived from the VEPCO's North Branch Power Station: sedimentation pond dredgings, construction/demolition materials, and coal combustion by-products.

3. Construct and operate disposal systems (surface impoundments) for the direct discharge of treated

industrial wastes or other wastes (storm water runoff and leachate) into the waters of unnamed tributaries of Mt. Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River (Outlets 012, 013, 014, 015, 016, 017, 020, 021, 022, 025, 026, 027, and 028) and into the waters of unnamed tributaries of Fourmile Run, a tributary of Stony River, a tributary of the North Branch of the Potomac River (Outlets 018, 019, and 024).

4. Monitor a closed disposal system (industrial solid waste landfill), referenced as the Phase A Ash Disposal Facility, in the drainage basin of an unnamed tributary of Mount Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River.

5. Construct and operate a leachate collection and conveyance system or parts thereof, for the indirect discharge of industrial waste (storm water runoff and leachate) through a treatment system operating under WV /NPDES Water Pollution Control Permit No. WV0093556.

This permit is subject to the following terms and conditions :
The information submitted on and with Permit Application No. WV0110256 dated the 19th day of December 1990, the information submitted on and with Permit Reissuance Application No. WV0110256 dated the 26th day of July 1999, Permit Modification Application No. WV0110256-A dated the 26th day of September 2001, Permit Modification Application No. WV0110256-B dated the 23rd day of October 2002, Permit Application No. WV0110256 dated the 30th day of August 2005, Permit Application No. WV0110256 dated the 28th day of January 2011, and the information submitted on and with letters dated the 21st day of October 1993, the 2nd day of November 1993, the 29th day of December 1993, the 11th day of February 1994, the 21st day of February 1994, the 23rd day of February 1994, the 25th day of February 1994, the 3rd day of March 1994, the 9th day of March 1994, the 16th day of March 1994, the 17th day of March 1994, the 24th day of March 1994, the 25th day of March 1994, the 7th day of April 1994, the 15th day of April 1994, the 3rd day of August 2000, the 10th day of August 2000, the 29th day of September 2000, the 15th day of November 2000, the 25th day of September 2001, the 3rd day of October 2001, the 24th day of October 2002, the 12th day of January 2006, the 6th day of March 2006, the 3rd day of July 2006, the 29th day of February 2012, the 31st day of May 2012, the 15th day of January 2013, the 18th day of October 2013, the 8th day of January 2014, the 23rd day of January 2014, and the 3rd day of February 2014, are all hereby made terms and conditions of this Permit with like effect as if all such permit application information were set forth herein, and other conditions set forth in sections A, B, and C, and Appendix A.

The validity of this permit is contingent upon the payment of the applicable annual permit fee, as required by Chapter 22, Article 11, Section 10 of the Code of West Virginia.

Inspectable Unit	Latitude	Longitude	Receiving Stream	Dist. to Stream Mouth (in Mile)	Milepost
012	39°11'47"	79°16'28"	Unnamed Tributary Of STONY RV	N/A	N/A
013	39°11'43"	79°16'35"	Unnamed Tributary Of STONY RV	N/A	N/A
014	39°11'19"	79°16'40"	Unnamed Tributary Of STONY RV	N/A	N/A
015	39°11'43"	79°17'04"	Unnamed Tributary Of STONY RV	N/A	N/A
016	39°11'50"	79°16'14"	Unnamed Tributary Of STONY RV	N/A	N/A
017	39°11'40"	79°16'14"	Unnamed Tributary Of STONY RV	N/A	N/A
018	39°11'53"	79°17'13"	Unnamed Tributary Of STONY RV -- No Monitoring Required	N/A	N/A
019	39°11'57"	79°17'08"	Unnamed Tributary Of STONY RV -- No Monitoring Required	N/A	N/A
020	39°11'58"	79°16'33"	Unnamed Tributary Of STONY RV -- No Monitoring Required	N/A	N/A
021	39°11'55"	79°16'14"	Unnamed Tributary Of STONY RV -- No Monitoring Required	N/A	N/A
022	39°11'54"	79°16'19"	Unnamed Tributary Of STONY RV	N/A	N/A
024	39°12'05"	79°16'56"	Unnamed Tributary Of STONY RV	N/A	N/A
025	39°11'43"	79°16'35"	Unnamed Tributary Of STONY RV	N/A	N/A
026	39°11'34"	79°16'16"	Unnamed Tributary Of STONY RV	N/A	N/A
027	39°11'43"	79°16'35"	Unnamed Tributary Of STONY RV	N/A	N/A
028	39°11'43"	79°17'04"	Unnamed Tributary Of STONY RV	N/A	N/A
LM2	39°11'59"	79°16'23"	N/A	N/A	N/A
LM3	39°11'47"	79°16'23"	N/A	N/A	N/A
LM4	39°11'59"	79°16'01"	N/A	N/A	N/A
LM6	39°11'59"	79°16'01"	N/A	N/A	N/A
LM8	39°11'57"	79°15'56"	N/A	N/A	N/A
LM9	39°11'47"	79°16'28"	N/A	N/A	N/A
MW05	39°11'20"	79°16'38"	N/A	N/A	N/A
MW06R	39°11'20"	79°16'02"	N/A	N/A	N/A
MW07	39°11'20"	79°16'38"	N/A	N/A	N/A
MW08	39°11'20"	79°16'38"	N/A	N/A	N/A
MW10	39°11'31"	79°16'34"	N/A	N/A	N/A
MW12R	39°11'02"	79°16'59"	N/A	N/A	N/A
MW13	39°10'32"	79°16'43"	N/A	N/A	N/A

Inspectable Unit	Latitude	Longitude	Receiving Stream	Dist. to Stream Mouth (in Mile)	Milepost
MW14	39°10'36"	79°16'34"	N/A	N/A	N/A
MW22	39°11'32"	79°17'12"	N/A	N/A	N/A
IWFGDW2	39°11'40"	79°17'02"	N/A	N/A	N/A
IWFGDW3	39°11'38"	79°16'14"	N/A	N/A	N/A
IWFGDW4	39°11'42"	79°16'12"	N/A	N/A	N/A
IWFGDW5	39°11'48"	79°16'13"	N/A	N/A	N/A
IWFGDW6	39°11'45"	79°16'13"	N/A	N/A	N/A

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

During the period beginning 6/1/2014 and lasting through midnight 5/31/2017 the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/month	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A) See Condition C.41.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

During the period beginning 6/1/2014 and lasting through midnight 5/31/2017 the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-A) See Condition C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B) See Condition C.25.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01079 - (Silver, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

During the period beginning 6/1/2014 and lasting through midnight 5/31/2017 the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
61425 - (Acute Tox - Ceriodaphnia Dub (Year Round) (ML-1) (RF-C) See Condition C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
61427 - (Acute Toxicity - Pimephales) (Year Round) (ML-1) (RF-C) See Condition C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

During the period beginning 6/1/2014 and lasting through midnight 5/31/2017 the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
11123 - (Total Recov. Manganese)	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			
See Condition C.4.									
01118 - (Chromium, Total Recoverable)	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			
See Conditions C.4 and C.36.									
81020 - (Sulfate)	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2017 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/month	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A) See Condition C.41.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2017 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Quantity		Units		Other Units		Units	Monitoring Requirements Measurement Frequency	Sample Type
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-A) See Condition C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B) See Condition C.25.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01079 - (Silver, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2017 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
61425 - (Acute Tox - Ceriodaphnia Dub (Year Round) (ML-1) (RF-C) See Condition C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
61427 - (Acute Toxicity - Pimephales) (Year Round) (ML-1) (RF-C) See Condition C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.004 Avg. Monthly	0.0086 Max. Daily	mg/l	1/month	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2017 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
11123 - (Total Recov. Manganese) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01118 - (Chromium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.013 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 013 (Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C) See Condition C.18.	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-C) See Conditions C.4 and C.18.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-C) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 013, a 24" HDPE pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.014 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 014 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	50 Max. Daily	mg/l	1/month	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A) See Condition C.41.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.16.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.16.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-A) See Condition C.16.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.16.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 014, an H-Flume which receives effluent from a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.014 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 014 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01032 - (Chromium, Hexavalent)	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			
See Conditions C.16 and C.36.									
71900 - (Mercury, Total (as Hg))	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)						Max. Daily			
See Conditions C.16 and C.25.									
01074 - (Nickel, Total Recoverable)	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			
See Conditions C.4 and C.16.									
01079 - (Silver, Total Recoverable)	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			
See Conditions C.4 and C.16.									
00900 - (Hardness, Total (as CaCO3))	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			
01104 - (Aluminum, Total Recoverable)	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			
See Condition C.4.									
00980 - (Iron, Total Recoverable)	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			
See Condition C.4.									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 014, an H-Flume which receives effluent from a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.014 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 014 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
61425 - (Acute Tox - Ceriodaphnia Dub (Year Round) (ML-1) (RF-C) See Conditions C.16 and C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
61427 - (Acute Toxicity - Pimephales) (Year Round) (ML-1) (RF-C) See Conditions C.16 and C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-A) See Condition C.16.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-A) See Condition C.16.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-A) See Condition C.16.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-1) (RF-A) See Condition C.16.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 014, an H-Flume which receives effluent from a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.014 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 014 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
11123 - (Total Recov. Manganese) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01118 - (Chromium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4, C.16, and C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01087 - (Vanadium, Total (as V)) (Year Round) (ML-1) (RF-A) See Condition C.16.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-1) (RF-A) See Condition C.16.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 014, an H-Flume which receives effluent from a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

During the period beginning 6/1/2014 and lasting through midnight 5/31/2017 the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	50 Max. Daily	mg/l	1/month	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A) See Condition C.41.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

During the period beginning 6/1/2014 and lasting through midnight 5/31/2017 the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-A) See Condition C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B) See Condition C.25.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01079 - (Silver, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.45.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	1.5 Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

During the period beginning 6/1/2014 and lasting through midnight 5/31/2017 the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
61425 - (Acute Tox - Ceriodaphnia Dub (Year Round) (ML-1) (RF-C) See Condition C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
61427 - (Acute Toxicity - Pimephales) (Year Round) (ML-1) (RF-C) See Condition C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

During the period beginning 6/1/2014 and lasting through midnight 5/31/2017 the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
11123 - (Total Recov. Manganese) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01118 - (Chromium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01087 - (Vanadium, Total (as V)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2017 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	50 Max. Daily	mg/l	1/month	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A) See Condition C.41.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.01 Avg. Monthly	0.019 Max. Daily	mg/l	1/month	Grab
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules Issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2017 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01032 - (Chromium, Hexavalent)	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			
See Condition C.36.									
71900 - (Mercury, Total (as Hg))	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)						Max. Daily			
See Condition C.25.									
01074 - (Nickel, Total Recoverable)	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			
See Condition C.4.									
01079 - (Silver, Total Recoverable)	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			
See Condition C.4.									
00900 - (Hardness, Total (as CaCO3))	N/A	N/A	N/A	N/A	N/A	Rpt Only	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			
01104 - (Aluminum, Total Recoverable)	N/A	N/A	N/A	N/A	0.75	0.75	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)					Avg. Monthly	Max. Daily			
See Conditions C.4 and C.45.									
00980 - (Iron, Total Recoverable)	N/A	N/A	N/A	N/A	N/A	1.5	mg/l	1/month	Grab
(Year Round) (ML-1) (RF-A)						Max. Daily			
See Condition C.4.									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2017 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
61425 - (Acute Tox - Ceriodaphnia Dub (Year Round) (ML-1) (RF-C) See Condition C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
61427 - (Acute Toxicity - Pimephales) (Year Round) (ML-1) (RF-C) See Condition C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.004 Avg. Monthly	0.008 Max. Daily	mg/l	1/month	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2017 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
11123 - (Total Recov. Manganese) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01118 - (Chromium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01087 - (Vanadium, Total (as V)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.016 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 016 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/month	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A) See Condition C.41.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 016, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.016 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 016 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-A) See Condition C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B) See Condition C.25.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01079 - (Silver, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 016, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.016 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 016 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
61425 - (Acute Tox - Ceriodaphnia Dub (Year Round) (ML-1) (RF-C) See Condition C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
61427 - (Acute Toxicity - Pimephales) (Year Round) (ML-1) (RF-C) See Condition C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 016, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.016 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 016 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
11123 - (Total Recov. Manganese) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01118 - (Chromium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4 and C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 016, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules Issued pursuant to Chapter 22B, Article 3.

A.017 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 017 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/month	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A) See Condition C.41.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 017, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.017 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 017 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-A) See Condition C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B) See Condition C.25.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01079 - (Silver, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 017, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.017 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 017 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
61425 - (Acute Tox - Ceriodaphnia Dub (Year Round) (ML-1) (RF-C) See Condition C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	Grab
61427 - (Acute Toxicity - Pimephales) (Year Round) (ML-1) (RF-C) See Condition C.30.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	Grab
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 017, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.017 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 017 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
11123 - (Total Recov. Manganese) (Year Round) (ML-1) (RF-A) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01118 - (Chromium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 017, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.022 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 022 (Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C) See Condition C.27.	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C) See Condition C.27.	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-C) See Conditions C.4 and C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-C) See Condition C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00720 - (Cyanide, Total) (Year Round) (ML-1) (RF-C) See Condition C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 022, an 18" corrugated metal pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.024 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 024 (Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C) See Condition C.26.	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C) See Condition C.26.	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-C) See Condition C.26.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00720 - (Cyanide, Total) (Year Round) (ML-1) (RF-C) See Condition C.26.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 024, an 18" corrugated metal pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.025 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 025 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-C) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/month	Grab
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A) See Conditions C.5 and C.41.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C) See Condition C.5.	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4, C.6, and C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 025, a 30" corrugated metal pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.025 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 025 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-A) See Condition C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-A) See Conditions C.6 and C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B) See Conditions C.6 and C.25.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01079 - (Silver, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-1) (RF-A) See Condition C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 025, a 30" corrugated metal pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.025 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 025 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-A) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-C) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-A) See Condition C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-A) See Condition C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-A) See Condition C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 025, a 30" corrugated metal pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.025 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 025 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01022 - (Boron, Total (as B)) (Year Round) (ML-1) (RF-A) See Condition C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
11123 - (Total Recov. Manganese) (Year Round) (ML-1) (RF-A) See Conditions C.4 and C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
01118 - (Chromium, Total Recoverable) (Year Round) (ML-1) (RF-A) See Conditions C.4, C.6, and C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-A) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-C) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 025, a 30" corrugated metal pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.026 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 026 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C) See Condition C.18.	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-C) See Conditions C.4 and C.18.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-C) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 026 - Discharge from Surface Impoundment No. 13-R

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.027 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 027 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/quarter	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 027 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 1 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.027 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 027 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-B) See Condition C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B) See Condition C.25.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01079 - (Silver, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 027 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 1 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules Issued pursuant to Chapter 22B, Article 3.

A.027 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 027 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
82057 - (Boron, Total) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
11123 - (Total Recov. Manganese) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01118 - (Chromium, Total Recoverable) (Year Round) (ML-1) (RF-B) See Conditions C.4 and C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 027 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 1 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.027 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 027 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01087 - (Vanadium, Total (as V)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 027 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 1 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.028 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 028 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/quarter	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 028 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 2 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.028 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 028 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01032 - (Chromium, Hexavalent) (Year Round) (ML-1) (RF-B) See Condition C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B) See Condition C.25.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01079 - (Silver, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 028 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 2 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.028 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 028 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01147 - (Selenium, Total (as Se)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
82057 - (Boron, Total) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
11123 - (Total Recov. Manganese) (Year Round) (ML-1) (RF-B) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01118 - (Chromium, Total Recoverable) (Year Round) (ML-1) (RF-B) See Conditions C.4 and C.36.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 028 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 2 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.028 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) 028 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01087 - (Vanadium, Total (as V)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 028 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 2 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.LM2 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM2 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00400 - (pH) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
82057 - (Boron, Total) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
00916 - (Calcium, Total (as Ca)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM2, grab samples taken from the terminus of each of the Phase A FGD by-product leachate collection system pipes indicated on Drawing No. 8962-C-004 which shall be combined

A.LM2 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM2 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
81020 - (Sulfate) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00927 - (Magnesium,Tot (as Mg)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

LM2, grab samples taken from the terminus of each of the Phase A FGD by-product leachate collection system pipes indicated on Drawing No. 8962-C-004 which shall be combined

A.LM3 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM3 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00400 - (pH) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
82057 - (Boron, Total) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
00916 - (Calcium, Total (as Ca)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

LM3, grab samples taken from the terminus of each of the Phase A FGD by-product leachate detection system pipes indicated on Drawing No. 8962-C-003 which shall be combined

A.LM3 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM3 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
81020 - (Sulfate) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00927 - (Magnesium,Tot (as Mg)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

LM3, grab samples taken from the terminus of each of the Phase A FGD by-product leachate detection system pipes indicated on Drawing No. 8962-C-003 which shall be combined

A.LM4 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM4 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00400 - (pH) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
82057 - (Boron, Total) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
00916 - (Calcium, Total (as Ca)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM4, Phase A FGD By-Product South Surface Impoundment leachate detection system discharge to manhole.

A.LM4 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM4 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
81020 - (Sulfate) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00927 - (Magnesium,Tot (as Mg)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM4, Phase A FGD By-Product South Surface Impoundment leachate detection system discharge to manhole.

A.LM6 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM6 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00400 - (pH) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
82057 - (Boron, Total) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
00916 - (Calcium, Total (as Ca)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM6, Phase A FGD By-Product North Surface Impoundment leachate detection system discharge to manhole

A.LM6 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM6 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
81020 - (Sulfate) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00927 - (Magnesium,Tot (as Mg)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM6, Phase A FGD By-Product North Surface Impoundment leachate detection system discharge to manhole

A.LM8 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM8 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01002 - (Arsenic, Total (as As)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-P) (RF-C) See Conditions C.25 and C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01055 - (Manganese, Total (as Mn)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM8, Phase A FGD By-Product North and South Surface Impoundment discharges - see Condition C.41.

A.LM8 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM8 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00940 - (Chloride (as Cl)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01027 - (Cadmium, Total (as Cd)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01042 - (Copper, Total (as Cu)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01105 - (Aluminum, Total (as Al)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01051 - (Lead, Total (as Pb)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01077 - (Silver, Total (as Ag)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM8, Phase A FGD By-Product North and South Surface Impoundment discharges - see Condition C.41.

A.LM8 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM8 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
01012 - (Beryllium, Total (as Be)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01147 - (Selenium, Total (as Se)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01007 - (Barium, Total (as Ba)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01062 - (Molybdenum, Total (as Mo)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
82057 - (Boron, Total) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM8, Phase A FGD By-Product North and South Surface Impoundment discharges - see Condition C.41.

A.LM8 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM8 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
01092 - (Zinc, Total (as Zn)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00916 - (Calcium, Total (as Ca)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00680 - (Total Organic Carbon) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01045 - (Iron, Total (as Fe)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01067 - (Nickel, Total (as Ni)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM8, Phase A FGD By-Product North and South Surface Impoundment discharges - see Condition C.41.

A.LM8 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM8 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01087 - (Vanadium, Total (as V)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00927 - (Magnesium,Tot (as Mg)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01059 - (Thallium, Total (as Tl)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00410 - (Alkalinity, Total) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01152 - (Total Titanium (as Tl)) (Year Round) (ML-P) (RF-C) See Condition C.39.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM8, Phase A FGD By-Product North and South Surface Impoundment discharges - see Condition C.41.

A.LM9 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee is authorized to discharge from Outlet Number(s) LM9 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00400 - (pH) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-P) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM9, an 8" HDPE pipe which directs closed Phase A Ash Disposal Facility leachate flow from Manhole #1 to Surface Impoundment No. 12

A.MW05 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginhing 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW05 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW05

A.MW05 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW05 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.043 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW05

A.MW05 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW05 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.011 Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW05

A.MW05 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW05 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW05

A.MW06R MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW06R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW06R

A.MW06R MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW06R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.006 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW06R

A.MW06R MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW06R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0026 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW06R

A.MW06R MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW06R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW06R

A.MW07 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW07 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW07

A.MW07 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW07 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.043 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW07

A.MW07 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW07 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.011 Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW07

A.MW07 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW07 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW07

A.MW08 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW08 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW08

A.MW08 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW08 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.018 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW08

A.MW08 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW08 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0022 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0018 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW08

A.MW08 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW08 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0018 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW08

A.MW10 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW10 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-10

A.MW10 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW10 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-10

A.MW10 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW10 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0015 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0018 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-10

A.MW10 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW10 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.001 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-10

A.MW12R MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW12R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW12R

A.MW12R MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW12R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.06 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW12R

A.MW12R MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW12R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0023 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW12R

A.MW12R MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW12R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW12R

A.MW13 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW13 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-13

A.MW13 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW13 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-13

A.MW13 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW13 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0015 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0018 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-13

A.MW13 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW13 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.001 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-13

A.MW14 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW14 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW14

A.MW14 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW14 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.006 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW14

A.MW14 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW14 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0025 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW14

A.MW14 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW14 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0014 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW14

A.MW22 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW22 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW22

A.MW22 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW22 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW22

A.MW22 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW22 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW22

A.MW22 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MW22 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW22

A.MWFGDW2 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW2 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW2

A.MWFGDW2 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW2 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW2

A.MWFGDW2 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW2 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW2

A.MWFGDW2 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW2 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW2

A.MWFGDW3 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW3 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW3

A.MWFGDW3 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW3 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.008 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW3

A.MWFGDW3 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW3 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.011 Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW3

A.MWFGDW3 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW3 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW3

A.MWFGDW4 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW4 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW4

A.MWFGDW4 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW4 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.043 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW4

A.MWFGDW4 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW4 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.011 Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW4

A.MWFGDW4 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW4 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW4

A.MWFGDW5 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW5 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW5

A.MWFGDW5 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW5 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.043 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW5

A.MWFGDW5 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW5 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0015 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.011 Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW5

A.MWFGDW5 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW5 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0018 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW5

A.MWFGDW6 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW6 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
00530 - (Total Suspended Solids) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
00940 - (Chloride (as Cl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01034 - (Chromium, Total (as Cr)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01106 - (Aluminum, Diss. (as Al)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
00095 - (Specific Conductance) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW6

A.MWFGDW6 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW6 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01005 - (Barium, Dissolved (as Ba)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
01040 - (Copper, Diss. (as Cu)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.043 Max. Daily	mg/l	1/6 months	Grab
01046 - (Iron, Dissolved (as Fe)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01049 - (Lead, Dissolved (as Pb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
01056 - (Manganese, Diss. (as Mn)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00011 - (Temperature, F) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW6

A.MWFGDW6 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW6 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01000 - (Arsenic, Dissolved (as As)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
01025 - (Cadmium, Dissolved (as Cd)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab
01145 - (Selenium,Diss. (as Se)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.011 Max. Daily	mg/l	1/6 months	Grab
71890 - (Mercury, Dissolved (as Hg)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
01020 - (Boron, Dissolved (as B)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01065 - (Nickel, Dissolved (as Ni)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
34726 - (Total Ammonia Nitr.NH3-N)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW6

A.MWFGDW6 MONITORING WELL REQUIREMENTS:

Final Limitations

During the period beginning 6/1/2014 and lasting through midnight 4/3/2019 the permittee will monitor Well Number(s) MWFGDW6 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
01057 - (Thallium, Dissolved (as Tl)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
01010 - (Dissolved Beryllium) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
01095 - (Antimony, Dissolved (as Sb)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70296 - (Total Dissolved Solids (TDS)) (Year Round) (ML-O) (RF-C)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW6

B. SCHEDULE OF COMPLIANCE

1. **The permitee shall achieve compliance with the provisions for waste treatment and the monitoring requirements specified in the permit in accordance with the following schedule :**

Jun 01, 2014:	Compliance with Sections A.012 (except acute toxicity testing requirements), A.013, A.014 (except acute toxicity testing requirements), A.015 (except acute toxicity testing requirements), A.022, A.024, A.025, A.027, A.028, A.LM2, A.LM3, A.LM4, A.LM6, A.LM8, A.LM9, A.MW05, A.MW06R, A.MW07, A.MW08, A.MW10, A.MW12R, A.MW13, A.MW14, A.MW22, A.MWFGDW2, A.MWFGDW3, A.MWFGDW4, A.MWFGDW5, and A.MWFGDW6.
Oct 01, 2015:	Compliance with Condition C.44.

2. **Reports of compliance or non-compliance with, and progress reports on interim and final requirements contained in the above compliance schedule, if any, shall be postmarked no later than 14 days following each schedule date.**

Section C - Other Requirements

1. Only the waste materials specified in Permit Application No. WV0110256 dated December 19, 1990, Permit Application No. WV0110256 dated July 26, 1999, and letters dated the 29th day of September 2000 and the 29th day of February 2012 may be disposed. The permittee shall provide Toxicity Characteristic Leaching Procedure (TCLP) analyses of the following materials to the addresses referenced in Condition C.10 prior to disposal: metal cleanings surface impoundment sludge, materials dredged from the North Branch Power Station sedimentation ponds, Phase A FGD By-Product Wastewater Treatment Plant waste materials, and materials derived from former Buffalo Coal Company Surface Impoundment Numbers 1 and 2.

2. Monitoring Well Reporting

   a. The permittee shall submit 1/6 months as required by Condition C.3.a, Monitoring Well Reports indicating in terms of concentration the values of the constituents listed. One hundred twenty (120) days shall transpire between sampling events. If concentration levels are found to be below method detection limits, so note and report the specific method detection limit. Metals concentrations shall be reported as dissolved, except Total Chromium.

   b. Water levels shall be obtained prior to pumping or sampling using the wetted tape method or an electronic detector.

   c. Stagnant water shall be removed from the well bore prior to sampling so that a representative sample may be obtained. Purging of the wells shall be effected utilizing standard low-flow protocols. Water shall be removed and water quality parameters (temperature, pH, specific conductance) shall be measured over five minute intervals until stabilized water quality values have been achieved (e.g., when values are within 10% of each other for three consecutive sets of readings). Removal of water for the low-flow process should not exceed .3 l/min. Care should be taken not to cause excessive drawdown of water level within the well. When hydrologic conditions cause this protocol to be impractical or difficult to accomplish, the permittee shall include an appropriate notation on the sampling field form. Values for pH, Temperature, and Specific Conductance obtained during purging shall be retained as stated in Appendix A, III.6.

   d. The permittee shall determine the groundwater flow rate and direction in the uppermost significant aquifer at least annually. Said determinations shall be submitted with the annual report referenced in Condition C.3.b.

   e. The permittee shall determine whether there is an interwell statistically significant increase over background levels for each parameter listed in Sections A.MWFGDW2 and A.MW22 of this permit less pH, Total Suspended Solids, Specific Conductance and Temperature. To determine such, the permittee shall compare groundwater quality in MW-5, MW-6R, MW-7, MW-8, MW-10, MW-12R, MW-13, MW-14, MWFGD-W3, MWFGD-W4, MWFGD-W5, and MWFGD-W6 with the pooled data of wells MWFGD-W2 and/or MW-22. Said statistical determinations shall be submitted concurrently with the Monitoring Well Report. If the permittee determines that there is a statistically significant increase over background for any parameter listed in Sections A.MWFGDW2 and A.MW22 of this permit, he shall indicate concurrent with the submission of the Monitoring Well Report which parameters have shown the statistically significant increase and comply with the requirements of Section 4.11.b.4 of 33CSR1, Solid Waste Management Rule.

   f. The permittee shall establish background groundwater quality for each of the monitoring parameters indicated in Sections A.MWFGDW2 and A.MW22. The minimum number of samples used to establish background groundwater quality must be consistent with the appropriate statistical procedures referenced in Condition C.2.g.

   g. The permittee must employ one of the following statistical procedures in combination with the appropriate sampling requirements to determine a statistically significant increase:

      (1) A parametric analysis of variance (ANOVA) followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The procedure must include estimation and testing of the contrasts between each down gradient well's mean and the background mean level for each constituent;

      (2) An analysis of variance based on ranks followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The procedure must include estimation and testing of the contrasts between each down gradient well's mean and the background mean level for each constituent;

Section C - Other Requirements

2. g. (3) Tolerance or prediction interval procedure in which a tolerance interval for each constituent is established from the distribution of the background data, and the level of each constituent is established from the distribution of the background data, and the level of each constituent in each down gradient well is compared to the upper tolerance or prediction limit; or

(4) A control chart approach that gives control limits for each constituent.

h. The Director may establish an alternative sampling procedure and statistical test for any of the constituents listed in the permit, as required to protect human health and the environment.

i. If there is a statistically significant increase over background concentrations for any groundwater parameter listed in Section A, less pH, Total Suspended Solids, Specific Conductance, and Temperature, the permittee must do the following:

(1) Within fourteen (14) days, place a notice in the operating record indicating which constituents have shown statistically significant changes from background levels and notify the Secretary that this notice was placed in the operating record.

(2) Within a thirty (30) day period of said finding, the permittee may repeat the sampling of the groundwater in the appropriate monitoring well(s) in accordance with the requirements of this permit or proceed with Condition C.2.i.(4).

(3) If the repeat sampling indicates that there is not a statistically significant increase over the background for the respective pollutant, the permittee shall continue sampling as required by this permit.

(4) If the background statistically significant increase is confirmed, the permittee shall establish and implement a Phase II assessment monitoring program meeting the requirements of 33 CSR 1, Section 4.11.c within ninety (90) days of said confirmation or demonstrate other source determination in accordance with 33 CSR 1, Section 4.11.b.5.

(5) If the concentrations of all Phase II constituents are shown to be at or below background values, using the statistical procedures described above for two consecutive sampling events, the permittee must notify the Secretary of this finding and may return to Phase I detection monitoring.

(6) If the concentrations of any Phase II constituents are above background values, but all concentrations are below the groundwater protection standards, using the statistical procedures described above, the permittee must continue assessment monitoring in accordance with Phase II requirements.

j. The permittee shall not cause a statistically significant increase over the groundwater standards found in Title 47, Series 12, Requirements Governing Groundwater Standards. Should a groundwater quality standard be exceeded, the permittee shall provide the following:

(1) Within ninety (90) days of a finding that any of the constituents listed in the permit have been detected at a statistically significant level exceeding the groundwater protection standards, the permittee must initiate an assessment of corrective measures in accordance with 33 CSR 1, Section 4.11.e.

(2) Based on the results of the corrective measures assessment conducted pursuant to 33 CSR 1, Section 4.11.e, the permittee must select a remedy that, at a minimum, meets the standards listed in 33 CSR 1, Sections 4.11.f.2 and 4.11.f.3. The permittee must notify the Secretary, within fourteen (14) days of selecting a remedy, by sending him or her a report describing the selected remedy, stating that it has been placed in the operating record, and describing how it meets the standards in 33 CSR 1, Sections 4.11.f.2 and 4.11.f.3. Further, the permittee shall specify as part of the selected remedy a schedule(s) for initiating and completing remedial activities in accordance with 33 CSR 1, Section 4.11.f.4.

(3) The Secretary may determine that remediation of a Phase II constituent is not necessary if the permittee can successfully demonstrate to the Secretary conditions found in 33 CSR 1, Section 4.11.f.5. However, any determination by the Secretary pursuant to 33 CSR 1, Section 4.11.f.5 cannot affect the authority of the state to require the permittee to undertake source control measures or other measures that may be necessary to eliminate or minimize further releases to the groundwater, to prevent exposure to the groundwater, or to remediate the groundwater to concentrations that are technically practicable and significantly reduce threats to human health or the environment.

(4) In accordance with 33 CSR 1, Section 4.11.g, the permittee shall implement the corrective action program based on the schedule required by 33 CSR 1, Sections 4.11.f.4 and 4.11.g.

Section C - Other Requirements

3. Reporting

   a. Monitoring reports for the inspectable units referenced on pages 3 and 4 of this permit shall be submitted to the agency's electronic discharge monitoring report system and shall be received no later than the twentieth (20) day following the end of the reporting period.

   b. Annual Report. An annual report is to be submitted for the previous calendar year to the addresses indicated in Condition C.10 before March 31 of the following year and shall include the following information:

      (1) Summary of the previous year's monitoring activities, including laboratory analysis of the previous year's TCLP analyses conducted upon Unit 1/Unit 2 FGD By-Product, Unit 3 FGD By-Product, Unit 1 Fly Ash, Unit 2 Fly Ash, Unit 3 Fly Ash, Unit 1 Bottom Ash, Unit 2 Bottom Ash, and Unit 3 Bottom Ash generated at the Mt. Storm Power Station and upon coal combustion by-products generated at the North Branch Power Station. Constituent concentrations shall be determined utilizing a test method with a detection limit less than the constituent's standard of purity and quality referenced in West Virginia Legislative Rule Title 47, Series 12, Requirements Governing Groundwater Standards.

      (2) A brief narrative describing the status of the facility which shall indicate any remedial activities, construction activities, and routine maintenance at the facility, and/or maintenance of the facility including details of the inspection required by Condition C.20;

      (3) A topographic map showing the permitted area, location of current working area(s) and completed area(s), cross sections showing volume of area that has been filled, and computations estimating the remaining useful life of the facility, and

      (4) Summary of the past year's disposal activities specifying quantities of individual waste types.

4. Colorimetric analytical methods, as specified in 40 CFR Part 136, shall not be utilized (see Appendix A, Section III.3).

5. The monitoring frequency for Flow, Total Suspended Solids, pH, Chloride, and Sulfate shall be 1/6 months at Outlet No. 025 until such time that monitoring of the parameters referenced in Condition C.6 is required. Concurrent with the monitoring of the parameters referenced in C.6, the frequency of Flow, pH, Chloride, Sulfate, and Total Suspended Solids monitoring shall be increased to monthly.

6. Limitations and monitoring requirements contained in Section A.025 for Hardness, Antimony, Arsenic, Lead, Copper, Silver, Cadmium, Selenium, Total Dissolved Solids, Boron, Aluminum, Iron, Manganese, Mercury, Total Chromium, and Hexavalent Chromium shall become effective with the commencement of construction of Phase A FGD By-Product Facility Cell No. 2 and shall remain in effect until such time that the ash deposits disturbed during the construction of Cell No. 2 have been covered with two feet of soil materials. Said limitations and monitoring requirements shall again become effective with the commencement of construction of Phase A FGD By-Product Facility Cell No. 3 and shall remain in effect until such time that the ash deposits disturbed during the construction of Cell No. 3 have been covered with two feet of soil materials. Furthermore, said limitations and monitoring requirements shall become effective with the commencement of construction of Phase A FGD By-Product Facility Cell No. 4 and shall remain in effect until such time that the ash deposits disturbed during the construction of Cell No. 4 have been covered with two feet of soil materials. Furthermore, said limitations and monitoring requirements shall become effective with the commencement of construction of Phase A FGD By-Product Facility Cell No. 5 and shall remain in effect until such time that the ash deposits disturbed during the construction of Cell No. 5 have been covered with two feet of soil materials. Dates of the commencement of construction activities for each of Cells, 2, 3, 4, and 5 and dates of the completion of the placement of two feet of soil materials upon each of Cells 2, 3, 4, and 5 shall be documented with the submission of the monthly Discharge Monitoring Reports for Outlet 025.

7. The following activities are prohibited unless specifically approved by permit modification:

   a. Use of the facility for agricultural purposes, or

   b. Establishment or construction of any buildings, except as provided by Condition C.40.

8. The permittee shall monthly examine the finished surfaces of the landfill for 1) evidence of cracking or erosion which could allow waters to enter solid waste deposits and 2) evidence of settling of solid waste causing ponding of surface water. Finished surfaces which have cracked, eroded, or settled shall be repaired by any necessary regrading, additions of cover material, and revegetation activities.

Section C - Other Requirements

9. The permittee shall inspect prior to the spring and fall planting seasons the vegetative cover of the intermediate and finished surfaces of the landfill. Areas that are deficient of vegetative cover shall be reseeded to establish a satisfactory stand of vegetation. Areas are considered to be deficient of vegetation if a 90% cover of perennial grasses or legumes has not been established.

10. Submittal of information other than the monitoring reports specified in Condition C.3.a shall be addressed to:

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Director                        Div. of Water and Waste Mgmt.
Div. of Water and Waste Mgmt.   2031 Pleasant Valley Road
601 57th Street, SE             Fairmont, WV  26554
Charleston, WV  25304           Attn:  John Britvec, Geologist
Attn: Waste Permitting Section
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11. The following sections of Title 33, Series 1, Solid Waste Management Rule, are hereby waived: 3.2.a.1, 3.2.b, 3.2.c, 3.2.d, 3.2.e, 3.2.i, 3.2.k, 3.2.l, 3.7.j, 3.7.m, 3.8.c.1.C.4, 3.8.i.1.B, 3.10.a.2, 3.10.a.4, 3.10.b.3, 3.10.a.6, 3.10.c.1, 3.13, 3.10.c.1, 4.4, 4.5.c.5, 4.5.g.7, 4.5.g.8, 4.5.g.9, 4.5.g.10, 4.6.b.1.B, 4.6.b.1.C, 4.6.b.2.A, 4.6.b.2.B, 4.8.c.3.A, 4.12.a, 4.12.b, and 4.12.g.1.B. The following section of Title 33, Series 1, is hereby modified: 4.12.g.

12. The permittee shall maintain in good operating condition all existing sediment and erosion control structures. Settled solids shall be removed from Surface Impoundment No. 12, Surface Impoundment No. 13, Surface Impoundment No. 14, Surface Impoundment No. 15, Surface Impoundment No. 16, Surface Impoundment No. 17, Surface Impoundment No. 25, Surface Impoundment No. 26, Phase A FGD By-Product Facility North and South Surface Impoundments, the ash haulroad impoundments, and the limestone haulroad impoundments when these solids accumulate to 60% of the impoundment's total capacity or when re-suspension of solids begins, whichever occurs first.

13. The permittee is authorized to excavate coal combustion by-products from the Phase A and Phase B Disposal Areas in accordance with the following stipulations:

    Excavation activities shall not disturb the leachate collection and protective cover zone of the liner system.

    The area to be excavated shall be minimized.

    The drainage slope of the area to be excavated shall be maintained.

    Benching within the area to be excavated shall be maintained.

    In areas where final soil cover must be removed, said cover shall be replaced, regraded and revegetated. Soil cover shall achieve a minimum thickness of twelve inches, regraded slopes shall not exceed 2.5H:1V between benches and a 90% vegetative cover consisting of perennial grasses or legumes shall be established.

    At the Phase A and Phase B Ash Disposal Facilities, erosion and sedimentation control structures, such as silt fencing, shall be utilized to control runoff from areas to be excavated. Said structures shall be routinely examined for accumulated sediment. Accumulated sediment shall be removed in a timely manner in order to maximize the efficiency of the erosion and sedimentation control structures. Erosion and sedimentation control structures are required at Phase B only where stormwater runoff is directed to Surface Impoundment No. 14 and Surface Impoundment No. 15.

    Appropriate notifications will be provided to the addresses indicated in Condition C.10 in accordance with Section 5.5.b.4.C. of Title 33, Series 1, Solid Waste Management Rule.

    The location of areas where coal combustion by-products were excavated during the prior year shall be indicated on the topographic map referenced in Condition C.3.b.(3). Cross-sections showing the volume of areas excavated shall also be provided.

    Concurrent with the Annual Report required by Condition C.3.(b), the quantity and type of coal combustion by-products excavated during the prior year shall be provided.

Section C - Other Requirements

14. Within six months of the commencement of construction activities at each of Phase A FGD By-Product Disposal Facility Cells 3 through 11, the permittee shall provide to the addresses referenced in Condition C.10 for review and approval, detailed design drawings signed by a registered professional engineer clearly depicting the location of each cell. Each cell shall be designed to meet the liner system requirements specified in Sections 4.5.d.2, 4.5.d.3, 4.5.d.4, 4.5.d.5, and 4.5.d.6 of Title 33, Series 1, Solid Waste Management Rule.

15. Within sixty (60) days of the completion of construction, the permittee shall submit under seal to the addresses indicated in Condition C.10 a certificate of construction signed by a registered professional engineer that the following components of the liner system of Cells 2-11 of the Phase A FGD By-Product Disposal Facility were constructed as referenced in Permit Application No. WV0110256: prepared subgrade, leachate detection zone, clay liner, synthetic liner, and leachate collection and protective cover zone. A quality assurance/quality control (QA/QC) report for each component of the liner system shall be submitted concurrently with the certificate of construction. The construction certification and QA/QC report shall be submitted for each component prior to the construction of the overlying component with the exception of the construction certification and QA/QC report for the leachate collection and protective cover zone being submitted prior to the placement into service of the cell. Should time constraints prohibit the submission of the certificate of construction and QA/QC report for a particular component prior to the construction of an overlying component, an interim certificate of construction shall be submitted stating that the component was constructed as proposed in the information provided as required by Condition C.14. and that a formal certification of construction and QA/QC report will be provided within ninety days of the submission of the interim certificate of construction.

16. Monitoring of Acute Toxicity, Ammonia Nitrogen, Antimony, Arsenic, Boron, Cadmium, Copper, Total Chromium, Hexavalent Chromium, Lead, Mercury, Nickel, Nitrite plus Nitrate Nitrogen, Selenium, Silver, and Vanadium at Outlet 014 shall commence concurrent with the routing of surface water runoff from the active Phase B working face to Surface Impoundment No. 14.

17. Monitoring and limitation requirements specified in Sections A.016, A.017, and A.026 shall become effective with the placement into service of Surface Impoundment Numbers 016, 017, and 026, respectively. Until that time, for each of Outlets 016, 017, and 026, the permittee shall submit a properly filled out DMR for each required reporting period and indicate "No discharge."

18. Following treatment with flocculants, the permitee shall analyze the pH and Total Recoverable Aluminum concentrations at Outlet Numbers 013 and 026. For this purpose, grab samples shall be obtained immediately after the discharge begins.

19. Immediately after construction of each new cell of the Phase A FGD By-Product Disposal Facility, and also after the placement of the first layer of waste materials within each new cell, the permittee shall verify that the cell's leachate collection and leachate detection system piping is free of blockages utilizing the procedure referenced in Condition C.20.

20. The permittee shall annually verify that the respective leachate collection lines, leachate detection lines, and the underdrain lines of the following disposal facilities and impoundments are free of blockages: Phase A FGD By-Product Disposal Facility (leachate collection lines, leachate detection lines, underdrain lines), the Phase A FGD By-Product North Leachate Storage Impoundment (leachate detection lines, underdrain lines), the Phase A FGD By-Product South Leachate Storage Impoundment (leachate detection lines, underdrain lines), Surface Impoundment No. 15 (leachate detection/underdrain lines), proposed Surface Impoundment Numbers 16 and 17 (leachate detection lines/underdrain lines) , and the closed Phase A Ash Disposal Facility (leachate collection lines) are free of blockages. For these purposes, the permittee may utilize one or a combination of several methods. One method involves introducing water into the cleanout of each pipe at a steady flow rate. Allowing sufficient travel time but no longer than the time reasonably expected for unobstructed flow to reach the pipe outlet, the flow rate shall be determined at the outlet end of each pipe. As an alternative method for pipes without cleanouts or as a stand alone method, the presence or absence of blockages shall be determined by utilizing a camera device with the inspection extending into each pipe a distance equal to the maximum distance which can be reached by the best available water jetting device currently available or if water jetting equipment becomes available which will extend a distance greater than the best available water jetting device currently available, the inspection shall extend to the increased distance. If blockages have been determined to be present in pipes having cleanouts, the above inspection procedure shall be effected from both the inlet and outlet ends of the pipe. As a final method, in lieu of the above

Section C - Other Requirements

20. flow verification or camera inspection methods, lines may be cleaned by utilizing a water jetting device or equivalent equipment. Results of the investigation shall be provided in report form which shall provide for each pipe the inlet and outlet flow rate, a summary of the results of the camera investigation including a video documenting the investigation of each pipe, and a narrative description of the efforts to remove blockages.

21. Within sixty days of the placement into service of Borrow Area Surface Impoundment No. 26, the permittee shall abandon Borrow Area Surface Impoundment No. 13. Abandonment shall be effected by removing the riser and discharge structure, restoring the land surface to its approximate original contour, and stabilizing and revegetating the distrubed area. Areas that are deficient of vegetative cover shall be reseeded to establish a satisfactory stand of vegetation. Areas are considered to be deficient of vegetation if a 90% cover of perennial grasses or legumes has not been established.

22. Prior to the abandonment of Borrow Area Surface Impoundment No. 13, the permittee shall establish a vegetative cover upon sections of the borrow area which drain to the impoundment. Areas that are deficient of vegetative cover shall be reseeded to establish a satisfactory stand of vegetation. Areas are considered to be deficient of vegetation if a 90% cover of perennial grasses or legumes has not been established.

23. The permittee shall route the effluent from the Phase A FGD By-Product North and South Leachate Storage Impoundments to the FGD scrubber units instead of the low volume waste ponds at the Mount Storm Power Station except under the following circumstances:

    a. When the units are not operating (e.g. when the absorber vessel is being cleaned out or scrubber sludges are being dewatered);

    b. When current or impending weather conditions make discharging the wastewater necessary;

    c. When a pump failure occurs; or

    d. When the units are not generating (and thus the scrubbers not operating).

24. Prior to the disposal of materials derived from the clean out of the former Buffalo Coal Company Surface Impoundment Numbers 1 and 2, the permittee shall provide to the addresses referenced in Condition C.10 for review and approval laboratory analyses derived from the Toxicity Characteristic Leaching Procedure (TCLP) conducted upon said materials.

25. Analytical Methods 245.7 or 1631 of 40 CFR Part 136 shall be utilized to monitor Total Mercury at Leachate Monitoring Point No. 8, and at Outlets 012, 014, 015, 016, 017, 025, 027, and 028.

26. When the average concentration of a pollutant calculated from a minimum of four consecutive samples obtained from Outlet 024 is less than the corresponding benchmark value for the pollutant, additional monitoring for the pollutant is not required (all pH values of the samples must be within the range 6.0 to 9.0 S.U.) for the particular outlet. Monitoring of Total Nitrogen and Total Kjeldahl Nitrogen shall cease concurrently with the cessation of Nitrate Nitrogen plus Nitrite Nitrogen monitoring. In lieu of the monitoring data required by Sections A.024, the permittee shall provide the attached "Annual Certification" form to the addresses referenced in Condition C.10 which shall reference the pollutants and the Outlet for which monitoring is no longer required and thereafter shall submit annually to said addresses said certification form stating that there has not been a significant change in the industrial activity or the pollution prevention measures in the area of the facility that drains to the outlet for which sampling is to be waived. If the average concentration of a pollutant exceeds the corresponding benchmark concentration or pH values of all the samples are not within the range of 6.0 to 9.0 S.U., monitoring shall be continued and storm water pollution prevention practices shall be revised and implemented. A letter stating the revised and implemented storm water pollution prevention practices shall be submitted to the addresses listed in Condition C.10 or to the agency's electronic discharge monitoring report system.

Pollutant	Benchmark Value
Total Suspended Solids	100 mg/l
Chloride	860 mg/l
pH	6.0 to 9.0 S.U.
Total Cyanide	.005 mg/l

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27. When the average concentration of a pollutant calculated from a minimum of four consecutive samples obtained from Outlet 022 is less than the corresponding benchmark value for the pollutant, additional monitoring for the pollutant is not required (all pH values of the samples must be within the range 6.0 to 9.0 S.U.) for the particular outlet. Monitoring of Total Nitrogen and Total Kjeldahl Nitrogen shall cease concurrently with the cessation of Nitrate Nitrogen plus Nitrite Nitrogen monitoring. In lieu of the monitoring data required by Section A.022, the permittee shall provide the attached "Annual Certification" form to the addresses referenced in Condition C.10 which shall reference the pollutants and the Outlet for which monitoring is no longer required and thereafter shall submit annually to said addresses said certification form stating that there has not been a significant change in the industrial activity or the pollution prevention measures in the area of the facility that drains to the outlet for which sampling is to be waived. If the average concentration of a pollutant exceeds the corresponding benchmark concentration or pH values of all the samples are not within the range of 6.0 to 9.0 S.U., monitoring shall be continued and storm water pollution prevention practices shall be revised and implemented. A letter stating the revised and implemented storm water pollution prevention practices shall be submitted to the addresses listed in Condition C.10 or to the agency's discharge monitoring report system.

Pollutant	Benchmark Value
Total Suspended Solids	100 mg/l
Chloride	860 mg/l
Iron	1.0 mg/l
pH	6.0 to 9.0 S.U.
Total Cyanide	.005 mg/l

28. Any "not detected (ND)" sampling result obtained by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and shall be reported on the DMR as less than the MDL used (<MDL). The permittee shall not report a sampling result as Zero or "ND" or report the result as less than a minimum level (ML), reporting limit (RL), or practical quantitation limit (PQL).

    When averaging values of analytical results for DMR reporting purposes for monthly averages, the permittee should use the actual analytical results when these results are greater than or equal to the MDL and should use zero (0) when these results are less than the MDL. If all analytical results are non-detect at the MDL (<MDL), then the permittee should use the actual MDL in the calculation for averaging and report the result as less than the average calculation.

29. In incidences where a specific test method is not defined, the permittee shall utilize an EPA approved method with a method detection limit (MDL) sensitive enough to confirm compliance with the permit effluent limit for that parameter. If an MDL is not sensitive enough to confirm compliance, the most sensitive method must be used. If a more sensitive EPA approved method becomes available, that method shall be used. Should the current and/or new method not be sensitive enough to confirm compliance with the permitted effluent limit, analytical results reported as "non detected" at the MDL of the most sensitive method available will be deemed compliant for purposes of permit compliance. Results shall be reported on the Discharge Monitoring Reports as an numeric valus less than the MDL.

30. The permittee shall perform acute effluent toxicity testing in accordance with the following.

    a. The acute effluent toxicity testing prescribed, herein, shall be 48-hour static acute toxicity tests utilizing Pimephales Promelas and Ceriodaphnia Dubia as the test species.

    b. The acute toxicity testing shall be performed on a 1/6 month basis with the first acute toxicity testing being carried out within three (3) months from the effective date of the permit for Outlets 012 and 015. The initial acute toxicity testing for Outlets 016 and 017 shall be carried out with three (3) months of the activation of each outlet. There shall be a minimum of three (3) months between 1/6 months sampling events.

    c. Eight (8) hour flow weighted composite samples of the effluent, as prescribed in Appendix A, Section III.7.d), shall be collected for testing.

    d. Testing and reporting of the result shall be performed in accordance with 40 CFR 136 or other approved methods and shall be submitted with the Discharge Monitoring Report (DMR) for the month following the end of the reporting period. LC50 shall be converted into Acute Toxic Units (TUa) using the following formula:

    TUa = 100/LC50
    For example, if LC50 is 100%, then TUa = 100/100 = 1.

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30. d. i) When the effluent demonstrates no toxicity at 100% effluent (no organisms die), the permittee may report zero (0) TUa.

ii) An effluent that causes some mortality but less than 50% mortality at 100% effluent on a species is still deemed to have some toxicity. As such, the permittee shall not report zero (0) in this case, but shall report the result as less than one (1) TUa.

iii) For DMR reporting purposes, when determining the monthly average TUa on a mixed data set (i.e., a data set consisting of some real values and some less than values), the permittee shall use actual toxicity results when these results are greater than or equal to one (1) TUa and shall use zero (0) when these results are less than one (1) TUa (i.e., <1 and 0 TUa results). If all analytical results are less than one (1) TUa, in accordance with C.30 d(ii) above, then the permittee shall report the average monthly result as less than one (1) TUa.

iv) Any result reported as less than one (1) TUa shall be deemed to be compliant with both the average monthly and maximum daily toxicity effluent limitations prescribed in Section A of this permit.

31. Six months prior to the commencement of construction of the impoundment which shall serve to replace existing Borrow Area Surface Impoundment No. 13 (to be designated Borrow Area Surface Impoundment No. 26), the permittee shall submit to the addresses referenced in Condition C.10 for review and approval detailed drawings signed by a registered professional engineer clearly depicting the location and design of said impoundment. The impoundment shall meet the design requirements of Sections 4.5.b.3, 4.5.b.3.A, 4.5.b.3.A.1, 4.5.b.3.A.2, 4.5.b.3.A.3, 4.5.b.3.A.5, 4.5.b.3.A.6, 4.5.b.3.A.7.(a), 4.5.b.3.A.7.(b), 4.5.b.3.A.7.(c), 4.5.b.3.A.7. (d), 4.5.b.3.A.7(e), 4.5.b.3.A.7(f), 4.5.b.3.A.7(i), 4.5.b.3.A.7(j) and 4.5.b.3.A.10 of Title 33, Series 1. Concurrent with the submission of the drawings, a Quality Assurance/Quality Control Plan - Construction Quality Assurance Plan signed by a registered professional engineer shall be provided which shall include the requirements of Section 3.7.g of Title 33, Series 1.

32. Surface impoundments/sedimentation ponds shall be re-designated as follows: Phase A FGD By-Product Surface Impoundment No. 1 shall be re-designated the Phase A FGD By-Product North Leachate Storage Impoundment, Phase A FGD By-Product Disposal Surface Impoundment No. 2 shall be re-designated the Phase A FGD By-Product South Leachate Storage Impoundment, the unnamed surface impoundment located at the toe of the Phase A Ash Disposal Facility that discharges through Outlet No. 025 shall be re-designated Surface Impoundment No. 025, proposed Phase A Sedimentation Pond No. 2 shall be re-designated Phase A Surface Impoundment No. 16, proposed Phase A Sedimentation Pond No. 1 shall be re-designated Phase A Surface Impoundment No. 17, Borrow Area Surface Impoundment No. 13-R shall be re-designated Surface Impoundment No. 26, and Phase B Surface Impoundment No. 3 shall be re-designated Surface Impoundment No. 14.

33. Within one (1) month of awarding contractor bids to develop a plan for the retrofit of the Phase A FGD By-Product North Leachate Surface Impoundment liner system, the permittee shall provide notification of such to the addresses referenced in Condition C.10. Within nine (9) months of the notification date, the permittee shall provide to the addresses referenced in Condition C.10 a plan detailing activities to be undertaken to retrofit the Phase A FGD By-Product North Leachate Surface Impoundment liner system with a composite liner system. The plan shall include a schedule of remedial activities to be undertaken. Concurrent with the submission of the design drawings, a Quality Assurance/Quality Control Plan - Construction Quality Assurance Plan signed by a registered professional engineer shall be provided which shall include the requirements of Section 3.7.g of Title 33, Series 1.

34. Within six (6) months after completion of each of the following components of the liner system to be retrofitted within the Phase A FGD By-Product North Leachate Surface Impoundment, the permittee shall submit under seal to the addresses indicated in Condition C.10, a certificate of construction signed by a professional engineer that each component was constructed as proposed in the information submitted as required by Condition C.33: prepared subgrade, leachate detection zone, clay liner, synthetic liner, and protective cover zone. A certificate of construction shall be provided for the impoundment's liner system. A quality assurance/quality control report for each component of the liner system shall be submitted concurrently with the certificate of construction.

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35. Within one (1) month of awarding contractor bids for the design of the Phase A FGD By-Product wastewater treatment system, the permittee shall provide notification of such to the addresses referenced in Condition C.10. Within six (6) months of the notification date, the permittee shall provide to the addresses referenced in Condition C.10, detailed design drawings and a thorough, detailed description of the treatment system to be utilized to treat Phase A FGD By-Product leachate.

36. The permittee may elect to monitor only Total Chromium instead of Hexavalent Chromium at Outlets 012, 014, 015, 016, 017, 025, 027, and 028 until such time that Total Chromium concentrations exceed .011 mg/l. Should such occur, monitoring shall revert to Hexavalent Chromium and Total Chromium.

37. Within one (1) month of awarding contractor bids for the design of Surface Impoundments 016 and 017, the permittee shall provide notification of such to the addresses referenced in Condition C.10. Within six (6) months of the notification date, the permittee shall submit to the addresses referenced in Condition C.10 for review and approval detailed drawings signed by a registered professional engineer clearly depicting the location and design of proposed Surface Impoundment Numbers 016 and 017. The impoundment shall meet the design requirements of Sections 4.5.b.3.A.3, 4.5.b.3.A.5, 4.5.b.3.A.6, 4.5.b.3.A.7.(a), 4.5.b.3.A.7.(b), 4.5.b.3.A.7.(c), 4.5.b.3.A.7. (d), 4.5.b.3.A.7(e), 4.5.b.3.A.7(f), 4.5.b.3.A.7(i), 4.5.b.3.A.7(j) 4.5.b.3.A.10, and 4.5.b.4.a of Title 33, Series 1 and shall be fitted with a liner system consisting of the following components in ascending order: prepared subbase, leachate detection/underdrain layer, clay liner, and protective cover zone. The prepared subbase shall meet the design requirements specified in Sections 4.5.d.3.A.1, 4.5.d.3.A.2, 4.5.d.3.A.3, 4.5.d.3.A.4, and 4.5.d.3.A.5 of Title 33, Series 1. The leachate detection/underdrain layer shall meet the design requirements of Sections 4.5.d.4.A.1, 4.5.d.4.A.2, 4.5.d.4.A.3, 4.5.d.4.A.4, 4.5.d.4.A.5.(a), 4.5.d.4.A.5.(b), 4.5.d.4.A.5.(c), 4.5.d.4.A.5.(d), 4.5.d.4.A.5.(e), 4.5.d.4.A.5.(f), and 4.5.d.4.A.5.(g) of Title 33, Series 1. The clay liner shall meet the design requirements of Sections 4.5.d.5.A.1, 4.5.d.5.A.2, 4.5.d.5.A.3, 4.5.d.5.A.4, 4.5.d.5.A.5, 4.5.d.5.A.6, 4.5.d.5.A.7, 4.5.d.5.A.8, and 4.5.d.5.A.9 of Title 33, Series 1 and the protective cover zone shall meet the design requirements specified in Sections 4.5.d.6.A.2, 4.5.d.6.A.4, 4.5.d.6.A.5, and 4.5.d.6.A.6 of Title 33, Series 1. Concurrent with the submission of the drawings, a Quality

    Assurance/Quality Control Plan - Construction Quality Assurance Plan signed by a registered professional engineer shall be provided which shall include the requirements of Sections 3.7.g, 4.5.e, 4.5.e.1, 4.5.e.2.A, 4.5.e.2.B, 4.5.e.2.C, 4.5.e.2.D, 4.5.e.2.E, 4.5.e.2.F, 4.5.e.2.H, and 4.5.e.2.I of Title 33, Series 1.

38. The permittee shall submit under seal to the addresses indicated in Condition C.10 within three (3) months of the completion of construction of each of Phase A Surface Impoundments Numbers 16 and 17, a certificate of construction signed by a registered professional engineer that the following components of the liner systems of Surface Impoundment Numbers 16 and 17 were constructed as referenced in the information submitted with Condition C.37: prepared subgrade, leachate detection/underdrain layer, clay liner, and protective cover zone. A quality assurance/quality control (QA/QC) report for each component of the liner system shall be submitted concurrently with the certificate of construction. The construction certification and QA/QC report shall be submitted for each component prior to the construction of the overlying component with the exception of the construction certification and QA/QC report for the protective cover material being submitted prior to the placement into service of the impoundment. Should time constraints prohibit the submission of the certificate of construction and QA/QC control report for a particular component prior to the construction of a overlying component, an interim certificate of construction shall be submitted stating that the component was constructed as proposed in the information provided as required by Condition C.37 and that a formal certification of construction and QA/QC report will be provided within ninety days of the submission of the interim certificate of construction.

39. Subsequent to the retrofitting of the liner system of the Phase A FGD By-Product North Leachate Storage Impoundment, the permittee shall obtain samples for leachate monitoring location LM8 by combining equal volumes from the Phase A FGD By-Product North Leachate Storage Impoundment and the Phase A FGD By-Product South Leachate Storage Impoundment. Prior to the retrofitting, samples for LM8 shall be obtained from the Phase A FGD By-Product South Leachate Storage Impoundment.

40. Within one (1) month of awarding contractor bids for the design of the Phase A FGD By-Product wastewater treatment system, the permittee shall provide notification of such to the addresses referenced in Condition C.10. Within six (6) months of the notification date, the pemittee shall provide to the addresses referenced in Condition C.10 the results of a detailed study which shall provide measures to be undertaken to ensure that the dissolution of salt cake does not create stability concerns at the Phase A FGD By-Product Disposal Facility.

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41. The limitation for pH is 6.0 Standard Units minimum.

42. The sample frequency of 1/quarter shall be defined as a minimum of one sample taken in each of the following periods: January 1 - March 31; April 1 - June 30; July 1 - September 30; October 1 - December 31.

43. The sample frequency of 1/6 months shall be defined as a minimum of one sample taken every six months, beginning with the effective date of the permit.

44. Within sixteen months of the effective date of the permit, the permittee shall submit to the addresses referenced in Condition C.10 a conceptual engineering report for a selected treatment option plan that will achieve compliance with final effluent limitations referenced in Sections A.012 and A.015 within thirty six (36) months of the effective date of the permit. The permittee shall semi-annually submit to the addresses referenced in Condition C.10 progress reports describing efforts taken to come into compliance with the final effluent limitations.

45. The permittee may elect to conduct a site specific Aluminum translator study in accordance with the June 1996 USEPA Agency Document No. 823-B-96-007 entitled "The Metals Translator: Guidance for Calculating a Total Recoverable Permit Limit from a Dissolved Criterion." Should the permittee elect to do so, a study plan shall be submitted to the addresses referenced in Condition C.10 within ninety (90) days of the effective date of the permit which shall specify sampling discharge points and receiving stream monitoring locations upstream and downstream of the discharge points for total and dissolved aluminum, total suspended solids, and flow under various flow conditions. Monitoring shall be conducted on a semi-monthly frequency for a length of time that will conclude the study within one year of the acceptance of the plan. If the permittee desires to modify the Aluminum effluent limitations based upon the translator study, a request shall be submitted to the addresses referenced in Condition C.10 within eighteen (18) months of the issuance date of the permit. If the effluent quality is such that compliance with the Aluminum limitations that resulted from the application of the site-specific translator can be expected, the permit will be modified to incorporate the revised limitations. If the resulting effluent limitations cannot be achieved with existing treatment, the permittee shall either upgrade the existing surface impoundment or construct additional treatment system(s) to achieve compliance with the final Aluminum effluent limitations within three (3) years of the issuance date of the permit.

The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0110256; with the plan of maintenance and method of operation thereof submitted with such application(s); and with any applicable rules and regulations promulgated by the Environmental Quality Board and the Secretary of the Department of Environmental Protection.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0110256; and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and the invocation of all the enforcement procedures set forth in Chapter 22, Article 11, or 15 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Chapter 22, Article 11 and 12 and/or 15 of the Code of West Virginia and is transferable under the terms of Section 11 of Article 11.

Scott G. Mandirola, Director

Appendix A

I. MANAGEMENT CONDITIONS:

1. Duty to Comply

a) The permittee must comply with all conditions of this permit. Permit noncompliance constitutes a violation of the CWA and State Act and is grounds for enforcement action; for permit modification, revocation and reissuance, suspension or revocation; or for denial of a permit renewal application.

b) The permittee shall comply with all effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

2. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit at least 180 days prior to expiration of the permit.

3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment.

4. Permit Actions

This permit may be modified, revoked and reissued, suspended, or revoked for cause. The filing of a request by the permittee for permit modification, revocation and reissuance, or revocation, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

5. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

6. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified as required in Title 47, Series 10 , Section 4.6 of the West Virginia Legislative Rules.

7. Transfers

This permit is not transferrable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.

8. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable specified time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, suspending, or revoking this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

9. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

10. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

a) Enter upon the permittee's premises in which an effluent source or activity is located, or where records must be kept under the conditions of this permit;

b) Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit;

c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the State Act, any substances or parameters at any location.

11. Permit Modification

This permit may be modified, suspended, or revoked in whole or in part during its term in accordance with the provisions of Chapter 22-11-12 or 22-15-15 (if Solid Waste/NPDES Permit) of the Code of West Virginia.

12. Water Quality

Subject to 47WV CSR 10.3.4.a, the effluent or effluents covered by this permit are to be of such quality so as not to cause violation of applicable water quality standards adopted by the Environmental Quality Board.

13. Outlet Markers

A permanent marker at the establishment shall be posted in accordance with Title 47, Series 11, Section 9 of the West Virginia Legislative Rules.

14. Liabilities

a) Any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed $25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, 308 or 405 of the Clean Water Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than 1 year, or both.

b) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 2 years, or by both.

c) Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 2 years, or by both.

d) Nothing in 1.14 a), b), and c) shall be construed to limit or prohibit any other authority the Director may have under the State Water Pollution Control Act, Chapter 22, Article 11.

II. OPERATION AND MAINTENANCE:

1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls, and appropriate quality assurance procedures. Unless otherwise required by Federal or State law, this provision requires the operation of back-up auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of the permit. For domestic waste treatment facilities, waste treatment operators as classified by the WV Bureau of Public Health Laws, W. Va. Code Chapter 16-1, will be required except that in circumstances where the domestic waste treatment facility is receiving any type of industrial waste, the Director may require a more highly skilled operator.

2. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

3. Bypass

a) Definitions

(1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility; and

(2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of II.3.c) and II.3.d) of this permit.

c) (1) If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass;

(2) If the permittee does not know in advance of the need for bypass, notice shall be submitted as required in IV.2.b) of this permit.

d) Prohibition of bypass

(1) Bypass is permitted only under the following conditions, and the Director may take enforcement action against a permittee for a bypass, unless;

(A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and

(C) The permittee submitted notices as required under II.3.c) of this permit.

(2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in II.3.d.(1) of this permit.

4. Upset

a) Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitation if the requirements of II.4.c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An upset occurred and that the permittee can identify the cause(s) of the upset;

(2) The permitted facility was at the time being properly operated;

(3) The permittee submitted notice of the upset as required in IV.2.b) of this permit.

(4) The permittee complied with any remedial measures required under I.3. of this permit.

d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

5. Removed Substances

Where removed substances are not otherwise covered by the terms and conditions of this permit or other existing permit by the Director, any solids, sludges, filter backwash or other pollutants (removed in the course of treatment or control of wastewaters) and which are intended for disposal within the State, shall be disposed of only in a manner and at a site subject to the approval by the Director. If such substances are intended for disposal outside the State or for reuse, i.e., as a material used for making another product, which in turn has another use, the permittee shall notify the Director in writing of the proposed disposal or use of such substances, the identity of the prospective disposer or users, and the intended place of disposal or use, as appropriate.

III. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. Reporting

a) Permittee shall submit, according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration, and/or quantities, the values of the constituents listed in Part A analytically determined to be in the plant effluent(s). DMR submissions shall be made in accordance with the terms contained in Section C of this permit.

b) Enter reported average and maximum values under "Quantity" and "Concentration" in the units specified for each parameter, as appropriate.

c) Specify the number of analyzed samples that exceed the allowable permit conditions in the columns labeled "N.E." (i.e., number exceeding).

d) Specify frequency of analysis for each parameter as number of analyses/specified period (e.g.,3/month is equivalent to 3 analyses performed every calendar month). If continuous, enter "Cont.". The frequency listed on format is the minimum required.

3. Test Procedures

Samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136, unless other test procedures have been specified elsewhere in this permit.

4. Recording of Results

For each measurement or sample taken pursuant to the permit, the permittee shall record the following information.

a) The date, exact place, and time of sampling or measurement;

b) The date(s) analyses were performed;

c) The individual(s) who performed the sampling or measurement;

d) The individual(s) who performed the analyses; if a commercial laboratory is used, the name and address of the laboratory;

e) The analytical techniques or methods used, and

f) The results of such analyses. Information not required by the DMR form is not to be submitted to this agency, but is to be retained as required in III.6.

5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at any monitoring point specified in this permit more frequently than required by this permit, using approved test procedures or others as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

6. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

7. Definitions

a) "Daily discharge" means the discharge of a pollutant measured during a calendar day or within any specified period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the day.

b) "Average monthly discharge limitation" means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

c) "Maximum daily discharge limitation" means the highest allowable daily discharge.

d) "Composite Sample" is a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates or the sampling interval (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite. The maximum time period between individual samples shall be two hours.

e) "Grab Sample" is an individual sample collected in less than 15 minutes.

f) "is" = immersion stabilization - a calibrated device is immersed in the effluent stream until the reading is stabilized.

g) The "daily average temperature" means the arithmetic average of temperature measurements made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month, or during the operating month if flows are of shorter duration.

h) The "daily maximum temperature" means the highest arithmetic average of the temperatures observed for any two (2) consecutive hours during a 24 hour day, or during the operating day if flows are of shorter duration.

i) The "monthly average fecal coliform" bacteria is the geometric average of all samples collected during the month.

j) "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or which a relationship to absolute volume has been obtained.

k) "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.

l) "Non-contact cooling water" means the water that is contained in a leak-free system, i.e., no contact with any gas, liquid, or solid other than the container for transport; the water shall have no net poundage addition of any pollutant over intake water levels, exclusive of approved anti-fouling agents.

IV. OTHER REPORTING

1. Reporting Spills and Accidental Discharges

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to Title 47, Series 11, Section 2 of the West Virginia Legislative Rules promulgated pursuant to Chapter 22, Article 11.

Attached is a copy of the West Virginia Spill Alert System for use in complying with Title 47, Series 11, Section 2 of the Legislative rules as they pertain to the reporting of spills and accidental discharges.

2. Immediate Reporting

a) The permittee shall report any noncompliance which may endanger health or the environment immediately after becoming aware of the circumstances by using the Agency's designated spill alert telephone number. A written submission shall be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

b) The following shall also be reported immediately:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit;

(2) Any upset which exceeds any effluent limitation in the permit; and

(3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit to be reported immediately. This list shall include any toxic pollutant or hazardous substance, or any pollutant specifically identified as the method to control a toxic pollutant or hazardous substance.

c) The Director may waive the written report on a case-by-case basis if the oral report has been received in accordance with the above.

d) Compliance with the requirements of IV.2 of this section, shall not relieve a person of compliance with Title 47, Series 11, Section 2.

3. Reporting Requirements

a) Planned changes. The permittee shall give notice to the Director of any planned physical alterations or additions to the permitted facility which may affect the nature or quantity of the discharge. Notice is required when:

(1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in Section 13.7.b of Series 10, Title 47; or

(2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under IV.2 of this section.

b) Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

c) In addition to the above reporting requirements, all existing manufacturing, commercial, and silvicultural discharges must notify the Director in writing as soon as they know or have reason to believe:

(1) That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, or any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

(A) One hundred micrograms per liter (100 ug/l);

(B) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitro phenol; and for 2-methyl 4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

(C) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.9 of Series10, Title 47.

(D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47;

(2) That any activity has occurred or will occur which would result in any discharge (on a non-routine or infrequent basis) of a toxic which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

(A) Five hundred micrograms per liter (500 ug/l);

(B) One milligram per liter (1 mg/l) for antimony;

(C) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.7 of Series 10, Title 47;

(D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47.

(3) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a routine or frequent basis of that toxic pollutant at levels which exceed five times the detection limit for that pollutant under approved analytical procedure.

(4) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a non-routine or infrequent basis of that toxic pollutant at levels which exceed ten times the detection limit for that pollutant under approved analytical procedure.

4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under the above paragraphs at the time monitoring reports are submitted. The reports shall contain the information listed in IV.2.a). Should other applicable noncompliance reporting be required, these terms and conditions will be found in Section C of this permit.

rcvd 7/24/17 ABF

west virginia department of environmental protection

Division of Water & Waste Management
601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0495
Fax: (304) 926-0463

Jim Justice, Governor
Austin Caperton, Cabinet Secretary
www.dep.wv.gov

July 14, 2017

Paula A. Hamel
Director, Generation Environmental Services
Virginia Electric & Power Co.
Mt Storm Power Station
5000 Dominion Boulevard
Glen Allen, VA 23060

CERTIFIED RETURN RECEIPT REQUESTED

Re: WV/NPDES Permit No. WV0005525
Mt Storm Power Station
Modification No. 5 – Grant County

Dear Ms. Hamel:

This correspondence shall serve as Modification No. 5 of your existing WV/NPDES Water Pollution Control Permit No. WV0005525 issued June 30, 2014.

After review and consideration of the information submitted on and with WV/NPDES Water Pollution Control Permit Application No. WV0005525-E, dated October 16, 2016 and completion and start-up of the new pond system and Outlet 006 previously authorized by Modification No 4 issued June 6, 2016, the subject Permit is hereby modified in accordance with the following:

1. Outlet Nos. 003, 004, and 005 have been eliminated from the permit. Outlet No 006 replaces those outlets.

2. References to Outlets 003 and 004 have been removed from Section C.14 of the permit.

3. References to Outlets 004 and 005 have been replaced with Outlet 006 in Section C.15.

Please find revised Section C pages 20-24 of 26 attached. These documents shall supersede the ones currently in your possession.

All other terms and conditions of the subject WV/NPDES Water Pollution Control Permit No. WV0005525 shall remain in effect and unchanged. If you should have any questions or concerns in this regard, please contact Bill Sentman at 304-926-0499, Extension 1084.

Sincerely,

Scott G. Mandirola
Director

SGM/wjs

cc: Kristen E. Slagle, VEPCO, Mt. Storm
Env. Insp. Supervisor
USEPA Region 3

Section C - Other Requirements

1. The permittee shall practice good housekeeping including maintaining the facility grounds. There shall be no scattered parts, equipment, debris, etc. Any and all drums shall be either stored in a covered area or kept upon pallets and properly sealed.
2. The issuance of this permit shall not relieve the permittee of the obligation to comply with any other federal, state or local laws. Compliance with this permit does not relieve the permittee from the obligation of Section 311 of the Clean Water Act. This permit does not authorize spills of hazardous substances/wastes from any permitted outlet into waters of the State. Such incidents are to be reported in accordance with Sections IV.1 and IV.2 of Appendix A of this permit.
3. Upon review of information submitted under terms and conditions of this permit, the permit may be modified to require additional effluent limitations/monitoring requirements and/or improved best management practices.
4. The permittee shall notify the Division of Water and Waste Management immediately when it becomes aware of any migration of any pollutant from any unpermitted source (such as contaminated groundwater and/or storm water) into surface waters of the State.
5. Without prior approval from the agency, the permittee shall not accept and treat wastewater from any other facility.
6. The permittee shall submit each month according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration and/or quantities the values of the constituents listed in Section A analytically determined to be in the plant effluent(s). Additional information pertaining to effluent monitoring and reporting can be found in Section III of Appendix A.
7. The required DMRs shall be received by the agency no later than 20 days following the end of the reporting period in accordance with the following requirements. The agency is now requiring the permittee to utilize our electronic discharge monitoring report (eDMR) system which is now mandatory. The permittee is not required to submit hard copies of the DMRs to the addresses listed below when using eDMR. Special circumstances may result in the agency granting an exemption to eDMR and are considered on case by case basis. If the permittee was exempted by the agency from using the eDMR system, then the permittee is required to send hard copies to the addresses below. The permittee may contact the agency for more information about the eDMR system and potential exemptions from using it. Regardless, in accordance with Appendix A, Section III.6 of this permit, the permittee shall maintain copies of DMRs (either hard copies or electronic copies) at the plant site and the DMRs shall be made readily available upon request for DEP personnel.

```
Director                                  U. S. Environmental Protection Agency
Division of Water and Waste Management    Region III, Water Protection Division
601 57th Street, SE                       NPDES Enforcement Branch (3WP42)
Charleston, West Virginia  25304          1650 Arch Street
Attn: Permitting Branch                   Philadelphia, PA  19103

Department of Environmental Protection
Environmental Enforcement
HC63 Box 2545
Romney, West Virginia  26757
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8. For any noncompliance reports to be submitted in writing by this permit, a copy shall also be forwarded to the EPA at the location specified under Condition C.7 of this permit.
9. Any "not detected (ND)" results by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and must be reported as less than the MDL used. The permittee may not report the result as zero, "ND", or report the result as less than a minimum level (ML), reporting limit (RL), or practical quantitation limit (PQL).

   When averaging values of analytical results for DMR reporting purposes for monthly averages, the permittee should use actual analytical results when these results are greater than or equal to the MDL and should use zero (0) when these results are less than the MDL. If all analytical results are non-detect at the MDL (<MDL), then the permittee should use the actual MDL in the calculation for averaging and report the result as less than the average calculation.

Section C - Other Requirements

10. In incidences where a specific test method is not defined, the permittee shall utilize an EPA approved method with a method detection limit (MDL) sensitive enough to confirm compliance with the permit effluent limit for that parameter. If a MDL is not sensitive enough to confirm compliance, the most sensitive approved method must be used. If a more sensitive EPA approved method becomes available, that method shall be used. Should the current and/or new method not be sensitive enough to confirm compliance with the permitted effluent limit, analytical results reported as "not detected" at the MDL of the most sensitive method available will be deemed compliant for purposes of permit compliance. Results shall be reported on the Discharge Monitoring Reports as a numeric value less than the MDL.

11. The permittee shall not use alternate DMRs without prior approval from this Agency.

12. The Groundwater Protection Plan (GPP) shall be maintained at the plant site and shall be available for inspection by the Division of Water and Waste Management personnel.

13. The permittee shall maintain and implement the storm water pollution prevention plan (SWPPP) for the site. The SWPPP shall be prepared in accordance with good engineering practices. The SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with the industrial activity. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with the industrial activity at the facility and to assure compliance with the terms and conditions of this permit. A copy of this document shall be retained at the site for review upon request.

14. The following outlet(s) have been designated by the Agency as "Representative Outlet(s)" based on the consideration of industrial activity, significant materials, DMR effluent data, and management practices and activities within the area drained by the below "Monitored Outlet(s)." As such, monitoring for the listed "Representative Outlet(s)" are not required:

Monitored Outlet	Representative Outlets (no monitoring required)
501	601

15. The following storm water requirements apply to Outlet(s) 006 and 501:

    a. Samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. Samples shall be taken during the first thirty (30) minutes, or as soon thereafter as practicable, of the storm event.

    b. Each outlet shall be monitored separately.

    c.

Pollutant	Benchmark Value
Total Suspended Solids	100.0 mg/l
Total Recoverable Aluminum	0.75 mg/l
Total Recoverable Iron	1.0 mg/l
Total Recoverable Zinc	0.117 mg/l
pH	6.0 - 9.0 s.u.
Total Mercury	0.0014 mg/l
Total Recoverable Selenium	0.005 mg/l

When the concentration results from a minimum of four consecutive samples of a pollutant are all less than the corresponding benchmark value for the pollutant, additional monitoring for the pollutant is not required (all pH values of the samples must be within the range 6.0 to 9.0 S.U.). The facility shall submit, each year, to the Division of Water and Waste Management, in lieu of the monitoring data, a certification (form will be provided upon request) that there has not been a significant change in the industrial activity or the pollution prevention measures in the area of the facility that drains to the outlet for which sampling is to be waived. If the concentration of a pollutant exceeds the corresponding benchmark concentration or a pH value is not within the range of 6.0 to 9.0 S.U., monitoring shall be continued and storm water pollution prevention practices shall be revised and implemented. A letter stating the revised and implemented storm water pollution prevention practices shall be submitted to the Division of Water and Waste Management at the address listed in Section C.7.

Section C - Other Requirements

16. If there is evidence indicating potential or realized impacts on water quality due to any storm water discharge associated with industrial activity covered by this permit, the permit may be promptly modified and/or reissued to include effluent limitations and/or other requirements to control such storm water discharges.

17. The following conditions apply only to the package sewage treatment plant:

    a. The herein described treatment works, structures, electrical, and mechanical equipment shall be adequately protected from physical damage by the maximum expected twenty-five (25) year flood level, and operability shall be maintained during the ten (10) year flood level.

    b. Continuous maintenance and operation of the listed sewage treatment facility shall be performed by, or supervised by, a certified operator possessing at least a Class S certificate, for Waste Water Treatment Plant Operators, issued by the State of West Virginia.

    c. The permittee shall connect to a municipal or public service district sewage collection system when one becomes available; however, prior to this connection, the permittee shall obtain written permission from the municipal or public service district sewage system authority which will receive the waste and submit a request along with one (1) copy of the written permission to the Division of Water and Waste Management for approval.

18. Discharge of polychlorinated biphenyl compounds (PCBs) through any outfall is prohibited.

19. There shall be no discharge of chlorine or other biocides from the condenser cooling water discharges without prior approval from the Director.

20. The permittee shall monitor Internal Outlet 401 once per month for Chlorides, if there is a discharge from the Phase A Landfill leachate pond to the low volume waste water treatment system. Results shall be attached to the next DMRs submitted by the permittee.

21. Effluent monitoring for the following pollutants shall be conducted using the most sensitive methods and detection levels commercially available and economically feasible. The following methods are to be used unless the permittee desires to use an EPA Approved Test Method with a listed lower or equivalent method detection level. Regardless, it is recognized that detection levels can vary from analysis to analysis and that non-detect results at a different MDL for the specified test method would not constitute a permit violation.

Parameter	EPA Method No.	Method Detection Level (ug/l)
Lead, Total Recoverable	SM3113B	1.0*
Copper, Total Recoverable	SM3113B	5.0*
Zinc, Total Recoverable	SM3113B	10.0*
Arsenic, Total Recoverable	SM3113B	3.0*
Selenium, Total Recoverable	SM3113B	2.0*
Cadmium, Total Recoverable	200.8	0.5
Silver, Total Recoverable	200.8	0.1
Aluminum, Total Recoverable	SM3113B	1.0*
Antimony, Total Recoverable	200.8	0.4
Thallium, Total Recoverable	200.8	0.3
Mercury, Total**	245.7	0.0018
Mercury, Total**	1631	0.0002

* The permittee has indicated that its own certified lab is capable of attained the prescribed MDLs noted. Therefore, the permittee may utilize these test methods.

**The permittee may use either Method 245.7 or Method 1631 for the analysis of mercury.

Section C - Other Requirements

22. Pursuant to the Chesapeake Bay TMDL and the West Virginia Watershed Implementation Plan, the permitted facility is classified as nonsignificant and is provided nitrogen and phosphorus wasteload allocations as components of grouped wasteload allocations. The component allocations are 121,764 #N/yr and 6088 #P/yr. Any future changes in operations and/or expansion of the wastewater treatment that would result in discharged loads greater than the component allocations will require the permittee to obtain offsets. The permittee shall contact the Director regarding any planned operational changes or facility expansion and secure prior approval of any offsets that are determined necessary. Said offsets shall be submitted to the Director for approval, and the permit subsequently modified prior to any expansion. At present, no trading or offset program has been established by the state. Proposals will continue to be evaluated on a case-by-case basis until a trading and/or offset program has been established.

23. The actual total (not the average) monthly flow of Outlet No. 001 shall be used in conjunction with the average monthly total nitrogen and total phosphorous concentration results at Internal Outlet 701 in order to determine the total monthly mass results for DMR reporting purposes. The total monthly flow shall be determined from flow measurements taken at Outlet 001.

    [Total Flow Discharged in Month (Million Gallons per Month)] * [Average Monthly Nutrient Concentration (mg/l)] * [8.34] = Monthly Load (lbs/month)

24. The Division recognizes there is not an EPA approved method to directly test for Total Nitrogen. A total nitrogen sample result shall be obtained by summing the sample results of the following parameters; Total Kjeldahl Nitrogen, Nitrate and Nitrite. Samples taken for TKN and Nitrate and Nitrite must be collected simultaneously in order to obtain a representative result of total nitrogen from the discharge.

    a. If all three (3) constituents of total nitrogen are not detected at its method detection limit (MDL), the permittee shall sum the actual MDLs for each constituent and report the result as less than the calculation.

    b. When calculating the sum of the constituents for total nitrogen, the permittee shall use actual analytical results when these results are greater than or equal to the MDL for a particular constituent and should use zero (0) for a constituent if one (1) or two (2) of constituents are less than the MDL.

25. Temperature Difference

    As required by Section A.001, temperature difference shall be determined by subtracting the upstream temperature collected at the influent to Mount Storm Lake from the effluent temperature collected at the weir. For the purposes of calculating this temperature difference, there shall be no more than thirty minutes between the time of collection between the upstream temperature and effluent temperature.

26. Continuous measurement of temperature, as required by Section A of this permit, shall be measured at a frequency of at least once every hour.

27. Chemical Oxygen Demand (COD) sampling shall take place at Outlet 001 during the summer months of May through Novemeber. Grab samples shall be taken near the wier when the water is actually being discharged from the cooling tower to the spillway.

28. The permittee is approved to use the following treatment/cleaning chemicals at the cooling tower in accordance with the following conditions.

    a. The cooling tower shall be monitored regularly to make sure there is no biological buildup. Sodium hypochlorite may be applied 2-3 times per week if there are algal blooms in the lake, followed by the feed of Spectrus DT1404 to dechlorinate before discharge to the lake. The cooling tower wastewater shall not be discharged to the spillway during use of these chemicals.

    b. In the event of a biological buildup, PY5200, hydrogen peroxide, and AZ8104 will be fed into the system or used to clean the cooling tower. The cooling tower discharge shall be isolated prior to use of the chemicals and the resultant wastewater shall be pumped and hauled either offsite for proper disposal or to the LVWS ponds for treatment prior to discharge.

Section C - Other Requirements

29. Available sampling methods for total residual chlorine (TRC) are currently not sensitive enough to confirm compliance with the permit limitations imposed for the new treatment plant. Total residual chlorine (TRC) samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136. Because the permittee does not operate a certified wastewater laboratory at the plant site but still must comply with the instantaneous sample-type requirements, the permittee shall use an EPA Approved Method with at least a method detection level (MDL) of 100 ug/l. Any TRC sampling result reported as less than the MDL stated above shall be assumed to confirm compliance for purposes of permit compliance. Should a more sensitive EPA approved method become available for field analysis of TRC, the permittee shall perform TRC self-monitoring in accordance with the new method. If the new method is not sensitive enough to determine compliance with specified TRC limits, analytical results reported as "not detected" at the MDL of the new method will be deemed compliant for purposes of permit compliance.

30. Dissolved oxygen shall be measured at Outfall 001. However, if Outlet 001 becomes inaccessable (due to weather, etc.) at the time of sampling, the sample should be collected at Outfall 701. The result shall be reported on the Discharge Monitoring Report (EDMR) for Outlet 001. The permittee shall note on an attachment to the EDMR the reason outlet 001 was inaccessable.

west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street, SE
Charleston, WV 25304
Phone: (304) 926-0495
Fax: (304) 926-0456

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
dep.wv.gov

June 25, 2012

Ms. Virginia R. Kelly, P.E.
VEPCO
5000 Dominion Blvd
Glen Allen, Virginia 23060

Re: Draft Permit

Dear Ms. Kelly:

Please find enclosed a copy of the public notice. The public notice is scheduled to be advertised on Tuesday, July 3 and July 10, 2012 in The Grant County Press.

As the applicant, you are responsible for paying the advertisements. You will be sent the original invoice and the notarized certificate of publication.

Should you have any questions, please contact me at 304-926-0499, ext. 1296.

Sincerely,

David L. Johnston
Solid Waste Permitting

Attachments

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT

PUBLIC NOTICE

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S, PUBLIC INFORMATION OFFICE, 601 57TH STREET, CHARLESTON SE, WEST VIRGINIA, 25304-2345 TELEPHONE: (304) 926-0440.

APPLICATION FOR A WEST VIRGINIA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM WATER POLLUTION CONTROL PERMIT

Public Notice No.: IW-09-12 **Public Notice Date**: July 3, 2012
July 10, 2012

Paper: The Grant County Press

The following has applied for a WV/NPDES Water Pollution Control Permit for this facility or activity:

Appl. No.: WV0110256

Applicant: VIRGINIA ELECTRIC AND POWER COMPANY
5000 DOMINION BOULEVARD
GLEN ALLEN, VA 23060

Location: MT. STORM, GRANT COUNTY

Latitude: 39 11' 19" **Longitude:** 79 16' 40"

Receiving Streams: Unnamed tributaries of Mt. Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River; Unnamed tributary of Fourmile Run, a tributary of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River.

Activity:

1. Construct and operate a disposal system (industrial solid waste landfill), referenced as the Phase A FGD By-Product Disposal Facility, in the drainage basin of an unnamed tributary of Mount Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River, for the disposal of: 1) flue gas desulphurization system (FGD) wastes generated at the Mt. Storm Power Station; 2) materials derived from the clean out of the Phase A FGD By-Product Disposal Facility's North and South Leachate Storage Impoundments and Phase A Surface Impoundments 16 and 17, 3) materials derived from the Phase A FGD By-Product wastewater treatment plant, and 4) materials derived from the metal cleanings surface impoundment located at the Mt. Storm Power Station.

2. Construct and operate a disposal system (industrial solid waste landfill), referenced as the Phase B Disposal Area, in the drainage basin of Mt. Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River, for the disposal of 1) flyash; bottom ash; pit ash; pyrites; construction/demolition materials; waste materials derived from general housecleaning, maintenance and/or repair work (rock, waste coal, coal/sediment fines, and gravel); materials derived from the clean out of the metal cleanings surface impoundment; and materials derived from the cleanout of the low volume water surface impoundments; all of which are generated at the Mt. Storm Power Station; 2) materials derived from the clean out of Leachate Surface Impoundment "B" regulated by Solid Waste/NPDES Water Pollution Control Permit No. WV0077461; 3) materials derived from the clean out of Phase B Surface Impoundment Numbers 14 and 15, Phase A Surface Impoundment Numbers 12 and 25, Borrow area Surface Impoundment Numbers 13 and 26, 4) materials derived from the former Buffalo Coal Company Surface Impoundment Numbers 1 and 2 operating under authority of WV/NPDES Permit No. WV0098744, 5) rock and soil materials derived from the repair of the Buffalo Coal Company haulroad located on VEPCO property operating under authority of WV/NPDES Permit No. WV0098744, and 6) the following materials derived from the VEPCO's North Branch Power Station: sedimentation pond dredgings, construction/demolition materials, and coal combustion by-products.

3. Construct and operate disposal systems (surface impoundments) for the direct discharge of treated industrial wastes or other wastes (storm water runoff and leachate) into the waters of unnamed tributaries of Mt. Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River (Outlets 012, 013, 014, 015, 016, 017, 020, 021, 022, 025, 026, 027, and 028) and the waters of unnamed tributaries of Fourmile Run, a tributary of Stony River, a tributary of the North Branch of the Potomac River (Outlets 018, 019, 023, and 024).

4. Monitor a closed disposal system (industrial solid waste landfill), referenced as the Phase A Ash Disposal Facility, in the drainage basin of an unnamed tributary of Mount Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River.

5. Construct and operate a leachate collection and conveyance system or parts thereof, for the indirect discharge of industrial waste (storm water runoff and leachate) through a treatment system operating under WV/NPDES Water Pollution Control Permit No. WV0093556.

Business conducted:
Electric Power Generation
Implementation:
N/A

On the basis of review of the application, the "Water Pollution Control Act (Chapter 22, Article 11-8(a))," and the "West Virginia Legislative Rules," the State of West Virginia will act on the above application.

Any interested person may submit written comments on the draft permit and may request a public hearing by addressing such to the Director of the Division of Water and Waste Management within 30 days of the date of the public notice. Such comments or requests should be addressed to:

Director, Division of Water and Waste Management, DEP
ATTN: Dawn Jones, Waste Permitting Section
601 57th Street SE
Charleston, WV 25304-2345

The public comment period begins July 3, 2012 and ends August 2, 2012.

Comments received within this period will be considered prior to acting on the permit application. Correspondence should include the name, address and the telephone number of the writer and a concise statement of the nature of the issues raised. The Director shall hold a public hearing whenever a finding is made, on the basis of requests, that there is a significant degree of public interest on issues relevant to the Draft Permit(s). Interested persons may contact the public information office to obtain further information.

The application, draft permit and any required fact sheet may be inspected, by appointment, at the Division of Water and Waste Management Public Information Office, at 601 57th Street SE, Charleston, WV 25304-2345, between 8:00 a.m. and 4:00 p.m. on business days. Copies of the documents may be obtained from the Division at a nominal cost. Individuals requiring Telecommunication Device (TDD) may contact our agency by calling 1-800-422-5700. Calls must be made 8:30 a.m. to 4:30 p.m. Monday through Friday.

DRAFT

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT
601 57TH STREET SE
CHARLESTON, WV 25304-2345

SOLID WASTE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WATER POLLUTION CONTROL PERMIT

NPDES PERMIT NO.: WV0110256
SUBJECT: Solid Industrial Waste

ISSUE DATE:
EFFECTIVE DATE :
EXPIRATION DATE:
SUPERSEDES: Permit No. WV0110256 dated August 03, 2006

LOCATION:	MOUNT STORM	Grant	N. Potomac River
	(City)	**(County)**	**(Drainage Basin)**

See the next page for a list of Outlets.

TO WHOM IT MAY CONCERN:

This is to certify that: VEPCO
5000 DOMINION BLVD
GLEN ALLEN, VA 23060

is hereby granted a West Virginia NPDES Water Pollution Control Permit to:

1. Construct and operate a disposal system (industrial solid waste landfill), referenced as the Phase A FGD By-Product Disposal Facility, in the drainage basin of an unnamed tributary of Mount Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River, for the disposal of: 1) flue gas desulphurization system (FGD) wastes generated at the Mt. Storm Power Station; 2) materials derived from the clean out of the Phase A FGD By-Product Disposal Facility's North and South Leachate Storage Impoundments and Phase A Surface Impoundments 16 and 17, 3) materials derived from the Phase A FGD By-Product wastewater treatment system, and 4) materials derived from the metal cleanings surface impoundment located at the Mt. Storm Power Station.

2. Construct and operate a disposal system (industrial solid waste landfill), referenced as the Phase B Disposal Area, in the drainage basin of Mt. Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River, for the disposal of 1) flyash; bottom ash; pit ash; pyrites; construction /demolition materials; waste materials derived from general housecleaning, maintenance and/or repair work (rock, waste coal, coal/sediment fines, and gravel); materials derived from the clean out of the metal cleanings surface impoundment; and materials derived from the cleanout of the low volume water surface impoundments; all of which are generated at the Mt. Storm Power Station; 2) materials derived from the clean out of Leachate Surface Impoundment "B" regulated by Solid Waste/NPDES Water Pollution Control Permit No. WV0077461; 3) materials derived from the clean out of Phase B Surface Impoundment Numbers 14 and 15, Phase A Surface Impoundment Numbers 12 and 25, Borrow area Surface Impoundment Numbers 13 and 26, 4) materials derived from the former Buffalo Coal Company Surface Impoundment Numbers 1 and 2 operating under authority of /NPDES Permit No. WV0098744, 5) rock and soil materials derived from the repair of the Buffalo Coal Company haulroad located on VEPCO property operating under authority of WV/NPDES Permit No. WV0098744, and 6) the following materials derived from the VEPCO's North Branch Power Station: sedimentation pond dredgings, construction/demolition materials, and coal combustion by-products.

3. Construct and operate disposal systems (surface impoundments) for the direct discharge of treated

industrial wastes or other wastes (storm water runoff and leachate) into the waters of unnamed tributaries of Mt. Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River (Outlets 012, 013, 014, 015, 016, 017, 020, 021, 022, 025, 026, 027, and 028) and into the waters of unnamed tributaries of Fourmile Run, a tributary of Stony River, a tributary of the North Branch of the Potomac River (Outlets 018, 019, 023, and 024).

4. Monitor a closed disposal system (industrial solid waste landfill), referenced as the Phase A Ash Disposal Facility, in the drainage basin of an unnamed tributary of Mount Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River.

5. Construct and operate a leachate collection and conveyance system or parts thereof, for the indirect discharge of industrial waste (storm water runoff and leachate) through a treatment system operating under WV /NPDES Water Pollution Control Permit No. WV0093556.

This permit is subject to the following terms and conditions :
The information submitted on and with Permit Application No. WV0110256 dated the 19th day of December 1990, the information submitted on and with Permit Reissuance Application No. WV0110256 dated the 26th day of July 1999, Permit Modification Application No. WV0110256-A dated the 26th day of September 2001, Permit Modification Application No. WV0110256-B dated the 23rd day of October 2002, Permit Application No. WV0110256 dated the 30th day of August 2005, Permit Application No. WV0110256 dated the 28th day of January 2011, and the information submitted on and with letters dated the 21st day of October 1993, the 2nd day of November 1993, the 29th day of December 1993, the 11th day of February 1994, the 21st day of February 1994, the 23rd day of February 1994, the 25th day of February 1994, the 3rd day of March 1994, the 9th day of March 1994, the 16th day of March 1994, the 17th day of March 1994, the 24th day of March 1994, the 25th day of March 1994, the 7th day of April 1994, the 15th day of April 1994, the 3rd day of August 2000, the 10th day of August 2000, the 29th day of September 2000, the 15th day of November 2000, the 25th day of September 2001, the 3rd day of October 2001, the 24th day of October 2002, the 12th day of January 2006, the 6th day of March 2006, the 3rd day of July 2006, the 29th day of February 2012, and the 31st day of May 2012 are all hereby made terms and conditions of this Permit with like effect as if all such permit application information were set forth herein, and other conditions set forth in sections A, B, and C, and Appendix A.

The validity of this permit is contingent upon the payment of the applicable annual permit fee, as required by Chapter 22, Article 11, Section 10 of the Code of West Virginia.

Inspectable Unit	Latitude	Longitude	Receiving Stream	Dist. to Stream Mouth (in Mile)	Milepost
012	39°11'47"	79°16'28"	Unnamed Tributary Of STONY RV	N/A	N/A
013	39°11'43"	79°16'35"	Unnamed Tributary Of STONY RV	N/A	N/A
014	39°11'19"	79°16'40"	Unnamed Tributary Of STONY RV	N/A	N/A
015	39°11'43"	79°17'04"	Unnamed Tributary Of STONY RV	N/A	N/A
016	39°11'50"	79°16'14"	Unnamed Tributary Of STONY RV	N/A	N/A
017	39°11'40"	79°16'14"	Unnamed Tributary Of STONY RV	N/A	N/A
018	39°11'53"	79°17'13"	Unnamed Tributary Of STONY RV -- No Monitoring Required	N/A	N/A
019	39°11'57"	79°17'08"	Unnamed Tributary Of STONY RV -- No Monitoring Required	N/A	N/A
020	39°11'58"	79°16'33"	Unnamed Tributary Of STONY RV -- No Monitoring Required	N/A	N/A
021	39°11'55"	79°16'14"	Unnamed Tributary Of STONY RV -- No Monitoring Required	N/A	N/A
022	39°11'54"	79°16'19"	Unnamed Tributary Of STONY RV	N/A	N/A
023	39°12'04"	79°17'03"	Unnamed Tributary Of STONY RV -- No Monitoring Required	N/A	N/A
024	39°12'05"	79°16'56"	Unnamed Tributary Of STONY RV	N/A	N/A
025	39°11'43"	79°16'35"	Unnamed Tributary Of STONY RV	N/A	N/A
026	39°11'34"	79°16'16"	Unnamed Tributary Of STONY RV	N/A	N/A
027	39°11'43"	79°16'35"	Unnamed Tributary Of STONY RV	N/A	N/A
028	39°11'43"	79°17'04"	Unnamed Tributary Of STONY RV	N/A	N/A
LM2	39°11'59"	79°16'23"	N/A	N/A	N/A
LM3	39°11'47"	79°16'23"	N/A	N/A	N/A
LM4	39°11'59"	79°16'01"	N/A	N/A	N/A
LM6	39°11'59"	79°16'01"	N/A	N/A	N/A
LM8	39°11'57"	79°15'56"	N/A	N/A	N/A
LM9,	39°11'47"	79°16'28"	N/A	N/A	N/A
MW05	39°11'20"	79°16'38"	N/A	N/A	N/A
MW06R	39°11'20"	79°16'02"	N/A	N/A	N/A
MW07	39°11'20"	79°16'38"	N/A	N/A	N/A
MW08	39°11'20"	79°16'38"	N/A	N/A	N/A
MW10	39°11'31"	79°16'34"	N/A	N/A	N/A
MW12R	39°11'02"	79°16'59"	N/A	N/A	N/A

Inspectable Unit	Latitude	Longitude	Receiving Stream	Dist. to Stream Mouth (in Mile)	Milepost
MW13	39°10'32"	79°16'43"	N/A	N/A	N/A
MW14	39°10'36"	79°16'34"	N/A	N/A	N/A
MW22	39°11'32"	79°17'12"	N/A	N/A	N/A
IWFGDW2	39°11'40"	79°17'02"	N/A	N/A	N/A
IWFGDW3	39°11'38"	79°16'14"	N/A	N/A	N/A
IWFGDW4	39°11'42"	79°16'12"	N/A	N/A	N/A
IWFGDW5	39°11'48"	79°16'13"	N/A	N/A	N/A
IWFGDW6	39°11'45"	79°16'13"	N/A	N/A	N/A

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (2 yrs. from effective date of permit) the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
Total Suspended Solids (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/month	Grab
pH (Year Round) (ML-1) See Condition C.44.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Calculated
Phosphorus, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Copper, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Lead, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Arsenic, Total (as As) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (2 yrs. from effective date of permit) the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Cadmium, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chromium, Hexavalent (Year Round) (ML-1) See Condition C.38.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Mercury, Total (as Hg) (Year Round) (ML-1) See Condition C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nickel, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Silver, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Hardness, Total (as CaCO3) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Aluminum, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Iron, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	1.07 Avg. Monthly	2.69 Max. Daily	mg/l	1/month	Grab
Chloride (as Cl) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (2 yrs. from effective date of permit) the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Acute Toxicity - Invertebrate (Year Round) (ML-1) See Condition C.32.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
Acute Toxicity - Pimephales (Year Round) (ML-1) See Condition C.32.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
Selenium, Total (as Se) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Solids, Total Dissolved (TDS) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Antimony, Total (as Sb) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Boron, Total (as B) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Total Recov. Manganese (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chromium, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

Year Round

During the period beginning (2 yrs. from effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Sulfate (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (2 yrs. from effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
Total Suspended Solids (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/month	Grab
pH (Year Round) (ML-1) See Condition C.44.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Calculated
Phosphorus, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Copper, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Lead, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Arsenic, Total (as As) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (2 yrs. from effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Cadmium, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chromium, Hexavalent (Year Round) (ML-1) See Condition C.38.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Mercury, Total (as Hg) (Year Round) (ML-1) See Condition C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nickel, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Silver, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Hardness, Total (as CaCO3) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Aluminum, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Iron, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	1.07 Avg. Monthly	2.69 Max. Daily	mg/l	1/month	Grab
Chloride (as Cl) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (2 yrs. from effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Acute Toxicity - Invertebrate (Year Round) (ML-1) See Condition C.32.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
Acute Toxicity - Pimephales (Year Round) (ML-1) See Condition C.32.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
Selenium, Total (as Se) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	0.004 Avg. Monthly	0.0086 Max. Daily	mg/l	1/month	Grab
Solids, Total Dissolved (TDS) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Antimony, Total (as Sb) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Boron, Total (as B) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Total Recov. Manganese (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chromium, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Sulfate (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 012, a 2.5 foot V-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.013 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 013 (Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
Total Suspended Solids (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-1) See Condition C.20.	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Calculated
Phosphorus, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.20.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Iron, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 013, a 24" HDPE pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.014 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 014 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
Total Suspended Solids (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	50 Max. Daily	mg/l	1/month	Grab
pH (Year Round) (ML-1) See Condition C.44.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Calculated
Phosphorus, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Copper, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.18.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Lead, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.18.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Arsenic, Total (as As) (Year Round) (ML-1) See Condition C.18.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 014, an H-Flume which receives effluent from a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.014 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 014 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Cadmium, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.18.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chromium, Hexavalent (Year Round) (ML-1) See Condition C.38.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Mercury, Total (as Hg) (Year Round) (ML-1) See Conditions C.18 and C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nickel, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.18.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Silver, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.18.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Hardness, Total (as CaCO3) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Aluminum, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Iron, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Acute Toxicity - Invertebrate (Year Round) (ML-1) See Conditions C.18 and C.32.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 014, an H-Flume which receives effluent from a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.014 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 014 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Acute Toxicity - Pimephales (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
See Conditions C.18 and C.32.									
Selenium, Total (as Se) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
See Condition C.18.									
Solids, Total Dissolved (TDS) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Antimony, Total (as Sb) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
See Condition C.18.									
Boron, Total (as B) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
See Condition C.18.									
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Total Recov. Manganese (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
See Condition C.4.									
Chromium, Total Recoverable (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
See Conditions C.4 and C.18.									
Vanadium, Total (as V) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
See Condition C.18.									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 014, an H-Flume which receives effluent from a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.014 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 014 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Sulfate (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

See Condition C.18.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 014, an H-Flume which receives effluent from a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (2 yrs. from effective date of permit) the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
Total Suspended Solids (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	50 Max. Daily	mg/l	1/month	Grab
pH (Year Round) (ML-1) See Condition C.44.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Calculated
Phosphorus, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Copper, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Lead, Total Recoverable (Year Round) (ML-1) (See Condition C.4)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Arsenic, Total (as As) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (2 yrs. from effective date of permit) the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Cadmium, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chromium, Hexavalent (Year Round) (ML-1) See Condition C.38.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Mercury, Total (as Hg) (Year Round) (ML-1) See Condition C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nickel, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Silver, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Hardness, Total (as CaCO3) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Aluminum, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Iron, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	1.5 Max. Daily	mg/l	1/month	Grab
Chloride (as Cl) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (2 yrs. from effective date of permit) the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Acute Toxicity - Invertebrate (Year Round) (ML-1) See Condition C.32.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
Acute Toxicity - Pimephales (Year Round) (ML-1) See Condition C.32.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
Chromium, Total (as Cr) (Year Round) (ML-1) See Condition C.38.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Selenium, Total (as Se) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Solids, Total Dissolved (TDS) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Antimony, Total (as Sb) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Boron, Total (as B) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Total Recov. Manganese (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Interim Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (2 yrs. from effective date of permit) the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Vanadium, Total (as V) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Sulfate (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (2 yrs. from effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
Total Suspended Solids (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	50 Max. Daily	mg/l	1/month	Grab
pH (Year Round) (ML-1) See Condition C.44.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Calculated
Phosphorus, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Copper, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Lead, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Arsenic, Total (as As) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	0.01 Avg. Monthly	0.0146 Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (2 yrs. from effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Cadmium, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chromium, Hexavalent (Year Round) (ML-1) See Condition C.38.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Mercury, Total (as Hg) (Year Round) (ML-1) See Condition C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nickel, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Silver, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Hardness, Total (as CaCO3) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Aluminum, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	0.37 Avg. Monthly	0.75 Max. Daily	mg/l	1/month	Grab
Iron, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	1.5 Max. Daily	mg/l	1/month	Grab
Chloride (as Cl) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (2 yrs. from effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Acute Toxicity - Invertebrate (Year Round) (ML-1) See Condition C.32.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
Acute Toxicity - Pimephales (Year Round) (ML-1) See Condition C.32.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
Chromium, Total (as Cr) (Year Round) (ML-1) See Condition C.38.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Selenium, Total (as Se) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	0.004 Avg. Monthly	0.008 Max. Daily	mg/l	1/month	Grab
Solids, Total Dissolved (TDS) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Antimony, Total (as Sb) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Boron, Total (as B) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Total Recov. Manganese (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.015 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (2 yrs. from effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 015 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Vanadium, Total (as V) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Sulfate (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 015, a v-notch weir

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.016 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (See Condition C.19) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 016 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
Total Suspended Solids (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/month	Grab
pH (Year Round) (ML-1) See Condition C.44.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Phosphorus, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Copper, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Lead, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Arsenic, Total (as As) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 016, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.016 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (See Condition C.19) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 016 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Cadmium, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chromium, Hexavalent (Year Round) (ML-1) See Condition C.38.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Mercury, Total (as Hg) (Year Round) (ML-1) See Condition C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nickel, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Silver, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Hardness, Total (as CaCO3) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Aluminum, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Iron, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chloride (as Cl) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 016, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.016 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (See Condition C.19) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 016 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Acute Toxicity - Invertebrate (Year Round) (ML-1) See Condition C.32.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
Acute Toxicity - Pimephales (Year Round) (ML-1) See Condition C.32.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	8 hr comp
Selenium, Total (as Se) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Solids, Total Dissolved (TDS) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Antimony, Total (as Sb) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Boron, Total (as B) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Total Recov. Manganese (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chromium, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 016, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.016 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (See Condition C.19) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 016 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Sulfate (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 016, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.017 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (See Condition C.19) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 017 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
Total Suspended Solids (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/month	Grab
pH (Year Round) (ML-1) See Condition C.44.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Phosphorus, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Copper, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Lead, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Arsenic, Total (as As) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 017, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.017 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (See Condition C.19) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 017 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Cadmium, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chromium, Hexavalent (Year Round) (ML-1) See Condition C.38.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Mercury, Total (as Hg) (Year Round) (ML-1) See Condition C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nickel, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Silver, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Hardness, Total (as CaCO3) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Aluminum, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Iron, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chloride (as Cl) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 017, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.017 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (See Condition C.19) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 017 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Acute Toxicity - Invertebrate (Year Round) (ML-1) See Condition C.32.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	Grab
Acute Toxicity - Pimephales (Year Round) (ML-1) See Condition C.32.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	TUa	1/6 months	Grab
Selenium, Total (as Se) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Solids, Total Dissolved (TDS) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Antimony, Total (as Sb) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Boron, Total (as B) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Total Recov. Manganese (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chromium, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 017, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.017 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 017 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Sulfate (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet No. 017, a 24" spirolite pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.022 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 022 (Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
Total Suspended Solids (Year Round) (ML-1) See Condition C.29.	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-1) See Condition C.29.	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1) See Condition C.29.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Conditions C.5 and C.29.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Phosphorus, Total (Year Round) (ML-1) See Condition C.29.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Iron, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.29.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-1) See Condition C.29.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1) See Condition C.29.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 022, an 18" corrugated metal pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.022 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 022 (Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Cyanide, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 022, an 18" corrugated metal pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.024 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 024 (Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
Total Suspended Solids (Year Round) (ML-1) See Condition C.28.	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-1) See Condition C.28..	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1) See Condition C.28.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Conditions C.5 and C.28.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Phosphorus, Total (Year Round) (ML-1) See Condition C.28.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-1) See Condition C.28.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1) See Condition C.28.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Cyanide, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 024, an 18" corrugated metal pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.025 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 025 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1) See Condition C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
Flow,in Conduit or thru plant (Year Round) (ML-1) See Condition C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
Total Suspended Solids (Year Round) (ML-1) See Condition C.6.	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/6 months	Grab
Total Suspended Solids (Year Round) (ML-1) See Condition C.6.	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/month	Grab
pH (Year Round) (ML-1) See Conditions C.6 and C.44.	N/A	N/A	N/A	6 Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/month	Grab
pH (Year Round) (ML-1) See Condition C.6.	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Calculated
Phosphorus, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 025, a 30" corrugated metal pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.025 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 025 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Copper, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.7.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Lead, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.7.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Arsenic, Total (as As) (Year Round) (ML-1) See Condition C.7.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Cadmium, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.7.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chromium, Hexavalent (Year Round) (ML-1) See Condition C.38.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Mercury, Total (as Hg) (Year Round) (ML-1) See Conditions C.7 and C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Silver, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.7.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Hardness, Total (as CaCO3) (Year Round) (ML-1) See Condition C.7.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Aluminum, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.7.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 025, a 30" corrugated metal pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.025 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 025 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Iron, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.7.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chloride (as Cl) (Year Round) (ML-1) See Condition C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Chloride (as Cl) (Year Round) (ML-1) See Condition C.6.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Selenium, Total (as Se) (Year Round) (ML-1) See Condition C.7.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Solids, Total Dissolved (TDS) (Year Round) (ML-1) See Condition C.7.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Antimony, Total (as Sb) (Year Round) (ML-1) See Condition C.7.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Boron, Total (as B) (Year Round) (ML-1) See Condition C.7.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Recov. Manganese (Year Round) (ML-1) See Conditions C.4 and C.7.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 025, a 30" corrugated metal pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.025 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 025 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Chromium, Total Recoverable (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
See Conditions C.4 and C.7.									
Sulfate (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/month	Grab
Sulfate (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 025, a 30" corrugated metal pipe

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.026 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (see Condition C.19) and lasting through midnight expiration date of permit the permittee is authorized to discharge from Outlet Number(s) 026 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
Total Suspended Solids (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	100 Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-1) See Condition C.20.	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Calculated
Phosphorus, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Total Recoverable (Year Round) (ML-1) See Conditions C.4 and C.20.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Iron, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 026 - Discharge from Surface Impoundment No. 13-R

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.027 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 027 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/quarter	Estimated
Total Suspended Solids (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
pH (Year Round) (ML-1)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/quarter	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Calculated
Phosphorus, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Copper, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Lead, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Arsenic, Total (as As) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 027 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 1 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.027 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 027 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Cadmium, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Chromium, Hexavalent (Year Round) (ML-1) See Condition C.38.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Mercury, Total (as Hg) (Year Round) (ML-1) See Condition C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nickel, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Silver, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Hardness, Total (as CaCO3) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Aluminum, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Iron, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Selenium, Total (as Se) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 027 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 1 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.027 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 027 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Solids, Total Dissolved (TDS) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Antimony, Total (as Sb) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Boron, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Total Recov. Manganese (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Vanadium, Total (as V) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Sulfate (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 027 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 1 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.028 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 028 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/quarter	Estimated
Total Suspended Solids (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
pH (Year Round) (ML-1)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/quarter	Grab
Nitrogen, Kjeldahl Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nitrogen, Total (as N) (Year Round) (ML-1) See Condition C.5.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Calculated
Phosphorus, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Copper, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Lead, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Arsenic, Total (as As) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 028 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 2 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.028 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 028 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Cadmium, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Chromium, Hexavalent (Year Round) (ML-1) See Condition C.38.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Mercury, Total (as Hg) (Year Round) (ML-1) See Condition C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nickel, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Silver, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Hardness, Total (as CaCO3) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Aluminum, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Iron, Total Recoverable (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Selenium, Total (as Se) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 028 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 2 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.028 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) 028 (Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Solids, Total Dissolved (TDS) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Antimony, Total (as Sb) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Boron, Total (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Total Recov. Manganese (Year Round) (ML-1) See Condition C.4.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Vanadium, Total (as V) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Sulfate (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-1)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 028 - a 4" PVC pipe leachate detection system/underdrain discharge from Chamber 2 of Surface Impoundment No. 15

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.LM2 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) LM2 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
pH (Year Round) (ML-P)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Solids, Total Dissolved (TDS) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Boron, Total (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Calcium, Total (as Ca) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Sulfate (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Magnesium,Tot (as Mg) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

LM2, grab samples taken from the terminus of each of the Phase A FGD by-product leachate collection system pipes indicated on Drawing No. 8962-C-004 which shall be combined

A.LM3 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) LM3 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
pH (Year Round) (ML-P)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Solids, Total Dissolved (TDS) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Boron, Total (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Calcium, Total (as Ca) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Sulfate (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Magnesium,Tot (as Mg) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

LM3, grab samples taken from the terminus of each of the Phase A FGD by-product leachate detection system pipes indicated on Drawing No. 8962-C-003 which shall be combined

A.LM4 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) LM4 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
pH (Year Round) (ML-P)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Solids, Total Dissolved (TDS) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Boron, Total (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Calcium, Total (as Ca) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Sulfate (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Magnesium,Tot (as Mg) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM4, Phase A FGD By-Product South Surface Impoundment leachate detection system discharge to manhole.

A.LM6 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) LM6 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
pH (Year Round) (ML-P)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Solids, Total Dissolved (TDS) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Boron, Total (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Calcium, Total (as Ca) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Sulfate (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Magnesium,Tot (as Mg) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM6, Phase A FGD By-Product North Surface Impoundment leachate detection system discharge to manhole

A.LM8 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) LM8 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
Total Suspended Solids (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-P)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
Arsenic, Total (as As) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Mercury, Total (as Hg) (Year Round) (ML-P) See Condition C.27.	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Hardness, Total (as CaCO3) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Manganese, Total (as Mn) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Cadmium, Total (as Cd) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM8, Phase A FGD By-Product North and South Surface Impoundment discharges - see Condition C.41.

A.LM8 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) LM8 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Copper, Total (as Cu) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Total (as Al) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Total (as Pb) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Silver, Total (as Ag) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Beryllium, Total (as Be) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Selenium, Total (as Se) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Barium, Total (as Ba) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Solids, Total Dissolved (TDS) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM8, Phase A FGD By-Product North and South Surface Impoundment discharges - see Condition C.41.

A.LM8 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) LM8 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Antimony, Total (as Sb) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Molybdenum, Total (as Mo) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Boron, Total (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Zinc, Total (as Zn) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Calcium, Total (as Ca) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Organic Carbon (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Iron, Total (as Fe) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM8, Phase A FGD By-Product North and South Surface Impoundment discharges - see Condition C.41.

A.LM8 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) LM8 (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Nickel, Total (as Ni) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Vanadium, Total (as V) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Sulfate (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Magnesium,Tot (as Mg) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Total (as Tl) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Alkalinity, Total (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Titanium (as Tl) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM8, Phase A FGD By-Product North and South Surface Impoundment discharges - see Condition C.41.

A.LM9, DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee is authorized to discharge from Outlet Number(s) LM9, (Leachate)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
Flow,in Conduit or thru plant (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/6 months	Estimated
pH (Year Round) (ML-P)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-P)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
LM9, an 8" HDPE pipe which directs closed Phase A Ash Disposal Facility leachate flow from Manhole #1 to Surface Impoundment No. 12.

A.MW05 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW05 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.043 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW05

A.MW05 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW05 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.011 Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW05

A.MW05 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW05 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW05

A.MW06R MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW06R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW06R

A.MW06R MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW06R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.006 Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0026 Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW06R

A.MW06R MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW06R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW06R

A.MW07 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW07 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.043 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW07

A.MW07 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW07 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.011 Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW07

A.MW07 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW07 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW07

A.MW08 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW08 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.018 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW08

A.MW08 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW08 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0022 Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0018 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW08

A.MW08 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW08 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0018 Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW08

A.MW10 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW10 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-10

A.MW10 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW10 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0015 Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0018 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-10

A.MW10 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW10 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.001 Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-10

A.MW12R MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW12R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.06 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW12R

A.MW12R MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW12R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0023 Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW12R

A.MW12R MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW12R (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW12R

A.MW13 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW13 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-13

A.MW13 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW13 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0015 Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0018 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-13

A.MW13 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW13 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.001 Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW-13

A.MW14 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW14 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW14

A.MW14 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW14 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.006 Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0025 Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW14

A.MW14 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW14 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0014 Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MW14

A.MW22 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW22 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW22

A.MW22 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW22 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW22

A.MW22 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MW22 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
MW22

A.MWFGDW2 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW2 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW2

A.MWFGDW2 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW2 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW2

A.MWFGDW2 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW2 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW2

A.MWFGDW3 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW3 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW3

A.MWFGDW3 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW3 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.008 Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.011 Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW3

A.MWFGDW3 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW3 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW3

A.MWFGDW4 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW4 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.043 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW4

A.MWFGDW4 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW4 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.011 Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW4

A.MWFGDW4 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW4 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW4

A.MWFGDW5 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW5 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.043 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW5

A.MWFGDW5 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW5 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0015 Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.011 Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW5

A.MWFGDW5 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW5 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0018 Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW5

A.MWFGDW6 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW6 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Total Suspended Solids (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
pH (Year Round) (ML-O)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/6 months	Grab
Chloride (as Cl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Chromium, Total (as Cr) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Aluminum, Diss. (as Al) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nitrite Plus Nitrate Nitrogen (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.62 Max. Daily	mg/l	1/6 months	Grab
Specific Conductance (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	UMHO/CM	1/6 months	Grab
Barium, Dissolved (as Ba) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	1.195 Max. Daily	mg/l	1/6 months	Grab
Copper, Diss. (as Cu) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.043 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW6

A.MWFGDW6 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW6 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements							Measurement Frequency	Sample Type
	Quantity		Units		Other Units		Units		
Iron, Dissolved (as Fe) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Lead, Dissolved (as Pb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.005 Max. Daily	mg/l	1/6 months	Grab
Manganese, Diss. (as Mn) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Temperature, F (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	DEG.F	1/6 months	Grab
Sulfate (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Arsenic, Dissolved (as As) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.01 Max. Daily	mg/l	1/6 months	Grab
Cadmium, Dissolved (as Cd) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0019 Max. Daily	mg/l	1/6 months	Grab
Selenium,Diss. (as Se) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.011 Max. Daily	mg/l	1/6 months	Grab
Mercury, Dissolved (as Hg) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW6

A.MWFGDW6 MONITORING WELL REQUIREMENTS:

Final Limitations

Year Round

During the period beginning (effective date of permit) and lasting through midnight (expiration date of permit) the permittee will monitor Well Number(s) MWFGDW6 (Monitoring Well)

Such well shall be monitored by the permittee as specified below:

Monitoring Well Characteristic	Monitoring Requirements Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
Boron, Dissolved (as B) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Nickel, Dissolved (as Ni) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Ammonia Nitr.NH3-N) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Thallium, Dissolved (as Tl) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.002 Max. Daily	mg/l	1/6 months	Grab
Dissolved Beryllium (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	0.0017 Max. Daily	mg/l	1/6 months	Grab
Antimony, Dissolved (as Sb) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab
Total Dissolved Solids (TDS) (Year Round) (ML-O)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Monitoring Well MWFGDW6

B. SCHEDULE OF COMPLIANCE

1. **The permitee shall achieve compliance with the provisions for waste treatment and the monitoring requirements specified in the permit in accordance with the following schedule :**

01 months after Issuance:	Compliance with Sections A.012 (except acute toxicity testing requirements), A.013, A.014, A.015 (except acute toxicity testing requirements), A.022, A.024, A.025, A.027, A.028, A.LM2, A.LM3, A.LM4, A.LM6, A.LM8, A.LM9, A.MW05, A.MW06R, A.MW07, A.MW08, A.MW10, A.MW12R, A.MW13, A.MW14, A.MW22, A.MWFGDW2, A.MWFGDW3, A.MWFGDW4, A.MWFGDW5, and A.MWFGDW6.
03 months after Issuance:	Compliance with Condition C.47.

2. **Reports of compliance or non-compliance with, and progress reports on interim and final requirements contained in the above compliance schedule, if any, shall be postmarked no later than 14 days following each schedule date.**

Section C - Other Requirements

01. Only the waste materials specified in Permit Application No. WV0110256 dated December 19, 1990, Permit Application No. WV0110256 dated July 26, 1999, and letters dated the 29th day of September 2000 and the 29th day of February 2012 may be disposed. The permittee shall provide Toxicity Characteristic Leaching Procedure (TCLP) analyses of the following materials to the addresses referenced in Condition C.10 prior to disposal: metal cleanings surface impoundment sludge, materials dredged from the North Branch Power Station sedimentation ponds, Phase A FGD By-Product Wastewater Treatment Plant waste materials, and materials derived from former Buffalo Coal Company Surface Impoundment Numbers 1 and 2.

02. Monitoring Well Reporting

    a. The permittee shall submit 1/6 months as required by Condition C.3.a, Monitoring Well Reports indicating in terms of concentration the values of the constituents listed. One hundred twenty (120) days shall transpire between sampling events. If concentration levels are found to be below method detection limits, so note and report the specific method detection limit. Metals concentrations shall be reported as dissolved, except as noted. The reports shall be submitted as required by Condition C.3.a.

    b. Water levels shall be obtained prior to pumping or sampling using the wetted tape method or an electronic detector.

    c. Stagnant water shall be removed from the well bore prior to sampling so that a representative sample may be obtained. Purging of the wells shall be effected utilizing standard low-flow protocols. Water shall be removed and water quality parameters (temperature, pH, specific conductance) shall be measured over five minute intervals until stabilized water quality values have been achieved (e.g., when values are within 10% of each other for three consecutive sets of readings). Removal of water for the low-flow process should not exceed .3 l/min. Care should be taken not to cause excessive drawdown of water level within the well. When hydrologic conditions cause this protocol to be impractical or difficult to accomplish, the permittee shall include an appropriate notation on the sampling field form. Values for pH, Temperature, and Specific Conductance obtained during purging shall be retained as stated in Appendix A, III.6.

    d. The permittee shall establish background groundwater quality for each of the monitoring parameters indicated in Sections A.MWFGDW2 and A.MW22.

    e. The permittee shall determine whether there is an interwell statistically significant increase over background levels for each parameter listed in Sections A.MWFGDW2 and A.MW22 of this permit less pH, Total Suspended Solids, Specific Conductance and Temperature. To determine such, the permittee shall compare groundwater quality in MW-5, MW-6R, MW-7, MW-8, MW-10, MW-12R, MW-13, MW-14, FGD-W3, FGD-W4, FGD-W5, and FGD-W6 with the pooled concentrations of wells FGD-W2 and MW-22. Said statistical determinations shall be submitted concurrently with the Semi-Annual Monitoring Well Report. If the permittee determines that there is a statistically significant increase over background for any parameter listed in Sections A.MWFGDW2 and A.MW22 of this permit, he shall indicate concurrent with the submission of the Semi-Annual Monitoring Well Report which parameters have shown the statistically significant increase.

    f. The permittee shall determine the groundwater flow rate and direction in the uppermost significant aquifer at least annually.

03. Reporting

    a. Monitoring reports for the inspectable units referenced on pages 3 and 4 of this permit shall be submitted to the agency's electronic discharge monitoring report system and shall be received no later than the twentieth (20) day following the end of the reporting period.

    b. Annual Report. An annual report is to be submitted for the previous calendar year to the addresses indicated in Condition C.10 before March 31 of the following year and shall include the following information:

        (1) Summary of the previous year's monitoring activities, including laboratory analysis of the previous year's TCLP analyses conducted upon Unit 1/Unit 2 FGD By-Product, Unit 3 FGD By-Product, Unit 1 Fly Ash, Unit 2 Fly Ash, Unit 3 Fly Ash, Unit 1 Bottom Ash, Unit 2 Bottom Ash, and Unit 3 Bottom Ash generated at the Mt. Storm Power Station and upon coal combustion by-products generated at the North Branch Power Station. Constituent concentrations shall be determined utilizing a test method with a detection limit less than the constituent's standard of purity and quality referenced in West Virginia Legislative Rule Title 47, Series 12, Requirements Governing Groundwater Standards.

Section C - Other Requirements

03. b. (2) A brief narrative describing the status of the facility which shall indicate any remedial activities, construction activities, and routine maintenance at the facility, and/or maintenance of the facility including details of the inspection required by Condition C.22;

(3) A topographic map showing the permitted area, location of current working area(s) and completed area(s), cross sections showing volume of area that has been filled, and computations estimating the remaining useful life of the facility, and

(4) Summary of the past year's disposal activities specifying quantities of individual waste types.

04. Colorimetric analytical methods, as specified in 40 CFR Part 136, shall not be utilized (see Appendix A, Section III.3).

05. Total Nitrogen concentration shall equal the sum of the concentrations of Total Kjeldahl Nitrogen, Nitrite Nitrogen, and Nitrate Nitrogen.

06. The monitoring frequency for Flow, Total Suspended Solids, pH, Chloride, and Sulfate shall be 1/6 months at Outlet No. 025 until such time that monitoring of the parameters referenced in Condition C.07 is required. Concurrent with the monitoring of the parameters referenced in C.07, the frequency of Flow, pH, Chloride, and Total Suspended Solids monitoring shall be increased to monthly.

07. Limitations and monitoring requirements contained in Section A.025 for Hardness, Antimony, Arsenic, Lead, Copper, Silver, Cadmium, Selenium, Total Dissolved Solids, Boron, Aluminum, Iron, Manganese, Mercury, and Total Chromium shall become effective with the commencement of construction of Phase A FGD By-Product Facility Cell No. 2 and shall remain in effect until such time that the ash deposits disturbed during the construction of Cell No. 2 have been covered with two feet of soil materials. Said limitations and monitoring requirements shall again become effective with the commencement of construction of Phase A FGD By-Product Facility Cell No. 3 and shall remain in effect until such time that the ash deposits disturbed during the construction of Cell No. 3 have been covered with two feet of soil materials. Furthermore, said limitations and monitoring requirements shall become effective with the commencement of construction of Phase A FGD By-Product Facility Cell No. 4 and shall remain in effect until such time that the ash deposits disturbed during the construction of Cell No. 4 have been covered with two feet of soil materials. Furthermore, said limitations and monitoring requirements shall become effective with the commencement of construction of Phase A FGD By-Product Facility Cell No. 5 and shall remain in effect until such time that the ash deposits disturbed during the construction of Cell No. 5 have been covered with two feet of soil materials. Dates of the commencement of construction activities for each of Cells, 2, 3, 4, and 5 and dates of the completion of the placement of two feet of soil materials upon each of Cells 2, 3, 4, and 5 shall be documented in the transmittal letter utilized to submit monthly Discharge Monitoring Reports for Outlet 025.

08. The following activities are prohibited unless specifically approved by permit modification:

a. Use of the facility for agricultural purposes, or

b. Establishment or construction of any buildings.

09. The permittee shall monthly examine the finished surfaces of the landfill for 1) evidence of cracking or erosion which could allow waters to enter solid waste deposits and 2) evidence of settling of solid waste causing ponding of surface water. Finished surfaces which have cracked, eroded, or settled shall be repaired by any necessary regrading, additions of cover material, and revegetation activities.

10. Submittal of information other than the monitoring reports specified in Condition C.3.a shall be addressed to:

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Director                        Div. of Water and Waste Mgmt.
Div. of Water and Waste Mgmt.   2031 Pleasant Valley Road
601 57th Street, SE             Fairmont, WV  26554
Charleston, WV  25304           Attn:  John Britvec, Geologist
Attn: Waste Permitting Section
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11. The permittee shall inspect prior to the spring and fall planting seasons the vegetative cover of the intermediate and finished surfaces of the landfill. Areas that are deficient of vegetative cover shall be reseeded to establish a satisfactory stand of vegetation. Areas are considered to be deficient of vegetation if a 90% cover of perennial grasses or legumes has not been established.

Section C - Other Requirements

12. The following sections of Title 33, Series 1, Solid Waste Management Rule, are hereby waived: 3.2.a.1, 3.2.b, 3.2.c, 3.2.d, 3.2.e, 3.2.i, 3.2.k, 3.2.l, 3.7.j, 3.7.m, 3.8.c.1.C.4, 3.8.i.1.B, 3.10.a.2, 3.10.a.4, 3.10.b.3, 3.10.a.6, 3.10.c.1, 3.13, 3.10.c.1, 4.4, 4.5.c.5, 4.5.g.7, 4.5.g.8, 4.5.g.9, 4.5.g.10, 4.6.b.1.B, 4.6.b.1.C, 4.6.b.2.A, 4.6.b.2.B, 4.8.c.3.A, 4.12.a, 4.12.b, and 4.12.g.1.B. The following section of Title 33, Series 1, is hereby modified: 4.12.g.

13. The permittee shall maintain in good operating condition all existing sediment and erosion control structures. Settled solids shall be removed from Surface Impoundment No. 12, Surface Impoundment No. 13, Surface Impoundment No. 14, Surface Impoundment No. 15, Surface Impoundment No. 16, Surface Impoundment No. 17, Surface Impoundment No. 25, Surface Impoundment No. 26, Phase A FGD By-Product Facility North and South Surface Impoundments, the ash haulroad impoundments, and the limestone haulroad impoundments when these solids accumulate to 60% of the impoundment's total capacity or when re-suspension of solids begins, whichever occurs first.

14. The permittee is authorized to excavate coal combustion by-products from the Phase A and Phase B Disposal Areas in accordance with the following stipulations:

    Excavation activities shall not disturb the leachate collection and protective cover zone of the liner system.

    The area to be excavated shall be minimized.

    The drainage slope of the area to be excavated shall be maintained.

    Benching within the area to be excavated shall be maintained.

    In areas where final soil cover must be removed, said cover shall be replaced, regraded and revegetated. Soil cover shall achieve a minimum thickness of twelve inches, regraded slopes shall not exceed 2.5H:1V between benches and a 90% vegetative cover consisting of perennial grasses or legumes shall be established.

    At the Phase A and Phase B Ash Disposal Facilities, erosion and sedimentation control structures, such as silt fencing, shall be utilized to control runoff from areas to be excavated. Said structures shall be routinely examined for accumulated sediment. Accumulated sediment shall be removed in a timely manner in order to maximize the efficiency of the erosion and sedimentation control structures. Erosion and sedimentation control structures are required at Phase B only where stormwater runoff is directed to Surface Impoundment No. 14 and Surface Impoundment No. 15.

    Appropriate notifications will be provided to the addresses indicated in Condition C.10 in accordance with Section 5.5.b.4.C. of Title 33, Series 1, Solid Waste Management Rule.

    The location of areas where coal combustion by-products were excavated during the prior year shall be indicated on the topographic map referenced in Condition C.3.b.(3). Cross-sections showing the volume of areas excavated shall also be provided.

    Concurrent with the Annual Report required by Condition C.3.(b), the quantity and type of coal combustion by-products excavated during the prior year shall be provided.

15. Within six months of the commencement of construction activities at each of Phase A FGD By-Product Disposal Facility Cells 2 through 11, the permittee shall provide to the addresses referenced in Condition C.10 for review and approval, detailed design drawings signed by a registered professional engineer clearly depicting the location of each cell. Each cell shall be designed to meet the liner system requirements specified in Sections 4.5.d.2, 4.5.d.3, 4.5.d.4, 4.5.d.5, and 4.5.d.6 of Title 33, Series 1, Solid Waste Management Rule.

Section C - Other Requirements

16. Within sixty (60) days of the completion of construction, the permittee shall submit under seal to the addresses indicated in Condition C.10 a certificate of construction signed by a registered professional engineer that the following components of the liner system of Cells 2-11 of the Phase A FGD By-Product Disposal Facility were constructed as referenced in Permit Application No. WV0110256: prepared subgrade, leachate detection zone, clay liner, synthetic liner, and leachate collection and protective cover zone. A quality assurance/quality control (QA/QC) report for each component of the liner system shall be submitted concurrently with the certificate of construction. The construction certification and QA/QC report shall be submitted for each component prior to the construction of the overlying component with the exception of the construction certification and QA/QC report for the leachate collection and protective cover zone being submitted prior to the placement into service of the cell. Should time constraints prohibit the submission of the certificate of construction and QA/QC report for a particular component prior to the construction of an overlying component, an interim certificate of construction shall be submitted stating that the component was constructed as proposed in the information provided as required by Condition C.15. and that a formal certification of construction and QA/QC report will be provided within ninety days of the submission of the interim certificate of construction.

17. The permittee shall not cause groundwater concentrations to exceed the standards of purity and quality referenced in Sections A.MW5, A.MW6R, A.MW7, A.MW8, A.MW10, A.MW12R, A.MW13, A.MW14, A.MWFGDW3, A.MWFGDW4, A.MWFGDW5, and A.MWFGDW6. Should a groundwater standard be exceeded, the permittee shall do the following:
    a. Within fourteen (14) days of the permittee finding that a groundwater standard has been exceeded, the permittee shall notify the Director of the finding.
    b. Within a thirty (30) day period of said finding, the permittee shall repeat the sampling of the wells for the parameters which exceeded the groundwater standard.
    c. If the repeat sampling indicates that a groundwater standard has not been exceeded, sampling shall continue as required by the permit.
    d. If the repeat sampling confirms that a groundwater standard has been exceeded, the permittee shall notify the Director within fourteen (14) days of said finding and shall provide a plan for an additional resampling or provide a plan to comply with the standard.
18. Monitoring of Acute Toxicity, Ammonia Nitrogen, Antimony, Arsenic, Boron, Cadmium, Copper, Total Chromium, Lead, Mercury, Nickel, Selenium, Silver, and Vanadium at Outlet 014 shall commence concurrent with the routing of surface water runoff from the active Phase B working face to Surface Impoundment No. 14.
19. Monitoring and limitation requirements specified in Sections A.016, A.017, and A.026 shall become effective with the placement into service of Surface Impoundment Numbers 016, 017, and 026.
20. Following treatment with flocculants, the permitee shall analyze the pH and Total Recoverable Aluminum concentrations at Outlet Numbers 013 and 026. For this purpose, grab samples shall be obtained immediately after the discharge begins.
21. Immediately after construction of each new cell of the Phase A FGD By-Product Disposal Facility, and also after the placement of the first layer of waste materials within each new cell, the permittee shall verify that the cell's leachate collection and leachate detection system piping is free of blockages utilizing the procedure referenced in Condition C.22.

Section C - Other Requirements

22. The permittee shall annually verify that the respective leachate collection lines, leachate detection lines, and the underdrain lines of the following disposal facilities and impoundments are free of blockages: Phase A FGD By-Product Disposal Facility (leachate collection lines, leachate detection lines, underdrain lines), the Phase A FGD By-Product North Leachate Storage Impoundment (leachate detection lines, underdrain lines), the Phase A FGD By-Product South Leachate Storage Impoundment (leachate detection lines, underdrain lines), Surface Impoundment No. 15 (leachate detection/underdrain lines), proposed Surface Impoundment Numbers 16 and 17 (leachate detection lines/underdrain lines) , and the closed Phase A Ash Disposal Facility (leachate collection lines) are free of blockages. For these purposes, the permittee may utilize one or a combination of several methods. One method involves introducing water into the cleanout of each pipe at a steady flow rate. Allowing sufficient travel time but no longer than the time reasonably expected for unobstructed flow to reach the pipe outlet, the flow rate shall be determined at the outlet end of each pipe. As an alternative method for pipes without cleanouts or as a stand alone method, the presence or absence of blockages shall be determined by utilizing a camera device with the inspection extending into each pipe a distance equal to the maximum distance which can be reached by the best available water jetting device currently available or if water jetting equipment becomes available which will extend a distance greater than the best available water jetting device currently available, the inspection shall extend to the increased distance. If blockages have been determined to be present in pipes having cleanouts, the above inspection procedure shall be effected from both the inlet and outlet ends of the pipe. As a final method, in lieu of the above flow verification or camera

    inspection methods, lines may be cleaned by utilizing a water jetting device or equivalent equipment. Results of the investigation shall be provided in report form which shall provide for each pipe the inlet and outlet flow rate, a summary of the results of the camera investigation including a video documenting the investigation of each pipe, and a narrative description of the efforts to remove blockages.

23. Within sixty days of the placement into service of Borrow Area Surface Impoundment No. 26, the permittee shall abandon Borrow Area Surface Impoundment No. 13. Abandonment shall be effected by removing the riser and discharge structure, restoring the land surface to its approximate original contour, and stabilizing and revegetating the distrubed area. Areas that are deficient of vegetative cover shall be reseeded to establish a satisfactory stand of vegetation. Areas are considered to be deficient of vegetation if a 90% cover of perennial grasses or legumes has not been established.

24. Prior to the abandonment of Borrow Area Surface Impoundment No. 13, the permittee shall establish a vegetative cover upon sections of the borrow area which drain to the impoundment. Areas that are deficient of vegetative cover shall be reseeded to establish a satisfactory stand of vegetation. Areas are considered to be deficient of vegetation if a 90% cover of perennial grasses or legumes has not been established.

25. The permittee shall route the effluent from the Phase A FGD By-Product North and South Leachate Storage Impoundments to the FGD scrubber units instead of the low volume waste ponds at the Mount Storm Power Station except under the following circumstances:

    a. When the units are not operating (e.g. when the absorber vessel is being cleaned out or scrubber sludges are being dewatered);

    b. When current or impending weather conditions make discharging the wastewater necessary;

    c. When a pump failure occurs; or

    d. When the units are not generating (and thus the scrubbers not operating).

26. Prior to the disposal of materials derived from the clean out of the former Buffalo Coal Company Surface Impoundment Numbers 1 and 2, the permittee shall provide to the addresses referenced in Condition C.10 for review and approval laboratory analyses derived from the Toxicity Characteristic Leaching Procedure (TCLP) conducted upon said materials.

27. Analytical Methods 245.7 or 1631 of 40 CFR Part 136 shall be utilized to monitor Total Mercury at Outlets 012, 014, 015, 016, 017, 025, 027, and 028.

Section C - Other Requirements

28. When the concentration of a pollutant calculated from a minimum of four consecutive samples obtained from Outlet 024 is less than the corresponding benchmark value for the pollutant, additional monitoring for the pollutant is not required (all pH values of the samples must be within the range 6.0 to 9.0 S.U.) for the particular outlet. Monitoring of Total Nitrogen and Total Kjeldahl Nitrogen shall cease concurrently with the cessation of Nitrate Nitrogen plus Nitrite Nitrogen monitoring. In lieu of the monitoring data required by Sections A.024, the permittee shall provide the attached "Annual Certification" form to the addresses referenced in Condition C.10 which shall reference the pollutants and the Outlet for which monitoring is no longer required and thereafter shall submit annually to said addresses said certification form stating that there has not been a significant change in the industrial activity or the pollution prevention measures in the area of the facility that drains to the outlet for which sampling is to be waived. If the average concentration of a pollutant exceeds the corresponding benchmark concentration or pH values of all the samples are not within the range of 6.0 to 9.0 S.U., monitoring shall be continued and storm water pollution prevention practices shall be revised and implemented. A letter stating the revised and implemented storm water pollution prevention practices shall be submitted to the addresses listed in Condition C.10.

Pollutant	Benchmark Value
Total Suspended Solids	100 mg/l
Chloride	860 mg/l
Nitrate plus Nitrite Nitrogen	.68 mg/l
Phosphorus	2.0 mg/l
pH	6.0 to 9.0 S.U.

29. When the concentration of a pollutant calculated from a minimum of four consecutive samples obtained from Outlet 022 is less than the corresponding benchmark value for the pollutant, additional monitoring for the pollutant is not required (all pH values of the samples must be within the range 6.0 to 9.0 S.U.) for the particular outlet. Monitoring of Total Nitrogen and Total Kjeldahl Nitrogen shall cease concurrently with the cessation of Nitrate Nitrogen plus Nitrite Nitrogen monitoring. In lieu of the monitoring data required by Section A.022, the permittee shall provide the attached "Annual Certification" form to the addresses referenced in Condition C.10 which shall reference the pollutants and the Outlet for which monitoring is no longer required and thereafter shall submit annually to said addresses said certification form stating that there has not been a significant change in the industrial activity or the pollution prevention measures in the area of the facility that drains to the outlet for which sampling is to be waived. If the average concentration of a pollutant exceeds the corresponding benchmark concentration or pH values of all the samples are not within the range of 6.0 to 9.0 S.U., monitoring shall be continued and storm water pollution prevention practices shall be revised and implemented. A letter stating the revised and implemented storm water pollution prevention practices shall be submitted to the addresses listed in Condition C.10.

Pollutant	Benchmark Value
Total Suspended Solids	100 mg/l
Chloride	860 mg/l
Nitrate plus Nitrite Nitrogen	.68 mg/l
Iron	1.0 mg/l
Phosphorus	2.0 mg/l
pH	6.0 to 9.0 S.U.

30. Any "not detected (ND)" sampling result obtained by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and shall be reported on the DMR as less than the MDL used (<MDL). The permittee shall not report a sampling result as Zero or "ND" or report the result as less than a minimum level (ML), reporting limit (RL), or practical quantitation limit (PQL).

    When averaging values of analytical results for DMR reporting purposes for monthly averages, the permittee should use the actual analytical results when these results are greater than or equal to the MDL and should use zero (0) when these results are less than the MDL. If all analytical results are non-detect at the MDL (<MDL), then the permittee should use the actual MDL in the calculation for averaging and report the result as less than the average calculation.

Section C - Other Requirements

31. In incindences where a specific test method is not defined, the permittee shall utilize an EPA approved method with a method detection limit (MDL) sensitive enough to confirm compliance with the permit effluent limit for that parameter. If an MDL is not sensitive enough to confirm compliance, the most sensitive method must be used. If a more sensitive EPA approved method becomes available, that method shall be used. Should the current and/or new method not be sensitive enough to confirm compliance with the permitted effluent limit, analytical results reported as "non detected" at the MDL of the most sensitive method available will be deemed compliant for purposes of permit compliance. Results shall be reported on the Discharge Monitoring Reports as an numeric valus less than the MDL.

32. The permittee shall perform acute effluent toxicity testing in accordance with the following.

    a. The acute effluent toxicity testing prescribed, herein, shall be 48-hour static acute toxicity tests utilizing Pimephales Promelas and Ceriodaphnia Dubia as the test species.

    b. The acute toxicity testing shall be performed on a 1/6 month basis with the first acute toxicity testing being carried out within three (3) months from the effective date of the permit for Outlets 012 and 015. The initial acute toxicity testing for Outlets 016 and 017 shall be carried out with three (3) months of the activation of each outlet. There shall be a minimum of three (3) months between 1/6 months sampling events.

    c. Eight (8) hour flow weighted composite samples of the effluent, as prescribed in Section A, shall be collected for testing.

    d. Testing and reporting of the result shall be performed in accordance with 40 CFR 136 or other approved methods and shall be submitted with the Discharge Monitoring Report (DMR) for the month following the completion of each test. LC50 shall be converted into Acute Toxic Units (TUa) using the following formula:

       TUa = 100/LC50
       For example, if LC50 is 100%, then TUa = 100/100 = 1.

       i) When the effluent demonstrates no toxicity at 100% effluent (no organisms die), the permittee may report zero (0) TUa.

       ii) An effluent that causes some mortality but less than 50% mortality at 100% effluent on a species is still deemed to have some toxicity. As such, the permittee shall not report zero (0) in this case, but shall report the result as less than one (1) TUa.

       iii) For DMR reporting purposes, when determining the monthly average TUa on a mixed data set (i.e., a data set consisting of some real values and some less than values), the permittee shall use actual toxicity results when these results are greater than or equal to one (1) TUa and shall use zero (0) when these results are less than one (1) TUa (i.e., <1 and 0 TUa results). If all analytical results are less than one (1) TUa, in accordance with C.32 d(ii) above, then the permittee shall report the average monthly result as less than one (1) TUa.

       iv) Any result reported as less than one (1) TUa shall be deemed to be compliant with both the average monthly and maximum daily toxicity effluent limitations prescribed in Section A of this permit.

33. Six months prior to the commencement of construction of the impoundment which shall serve to replace existing Borrow Area Surface Impoundment No. 13 (to be designated Borrow Area Surface Impoundment No. 26), the permittee shall submit to the addresses referenced in Condition C.10 for review and approval detailed drawings signed by a registered professional engineer clearly depicting the location and design of said impoundment. The impoundment shall meet the design requirements of Sections 4.5.b.3, 4.5.b.3.A, 4.5.b.3.A.1, 4.5.b.3.A.2, 4.5.b.3.A.3, 4.5.b.3.A.5, 4.5.b.3.A.6, 4.5.b.3.A.7.(a), 4.5.b.3.A.7.(b), 4.5.b.3.A.7.(c), 4.5.b.3.A.7. (d), 4.5.b.3.A.7(e), 4.5.b.3.A.7(f), 4.5.b.3.A.7(i), 4.5.b.3.A.7(j) and 4.5.b.3.A.10 of Title 33, Series 1. Concurrent with the submission of the drawings, a Quality Assurance/Quality Control Plan - Construction Quality Assurance Plan signed by a registered professional engineer shall be provided which shall include the requirements of Section 3.7.g of Title 33, Series 1.

Section C - Other Requirements

34. Surface impoundments/sedimentation ponds shall be re-designated as follows: Phase A FGD By-Product Surface Impoundment No. 1 shall be re-designated the Phase A FGD By-Product North Leachate Storage Impoundment, Phase A FGD By-Product Disposal Surface Impoundment No. 2 shall be re-designated the Phase A FGD By-Product South Leachate Storage Impoundment, the unnamed surface impoundment located at the toe of the Phase A Ash Disposal Facility that discharges through Outlet No. 025 shall be re-designated Surface Impoundment No. 025, proposed Phase A Sedimentation Pond No. 2 shall be re-designated Phase A Surface Impoundment No. 16, proposed Phase A Sedimentation Pond No. 1 shall be re-designated Phase A Surface Impoundment No. 17, Borrow Area Surface Impoundment No. 13-R shall be re-designated Surface Impoundment No. 26, and Phase B Surface Impoundment No. 3 shall be re-designated Surface Impoundment No. 14.

35. Within one (1) month of awarding contractor bids to develop a plan for the retrofit of the Phase A FGD By-Product North Leachate Surface Impoundment liner system, the permittee shall provide notification of such to the addresses referenced in Condition C.10. Within nine (9) months of the notification date, the permittee shall provide to the addresses referenced in Condition C.10 a plan detailing activities to be undertaken to retrofit the Phase A FGD By-Product North Leachate Surface Impoundment liner system with a composite liner system. The plan shall include a schedule of remedial activities to be undertaken. Concurrent with the submission of the design drawings, a Quality Assurance/Quality Control Plan - Construction Quality Assurance Plan signed by a registered professional engineer shall be provided which shall include the requirements of Section 3.7.g of Title 33, Series 1.

36. Within six (6) months after completion of each of the following components of the liner system to be retrofitted within the Phase A FGD By-Product North Leachate Surface Impoundment, the permittee shall submit under seal to the addresses indicated in Condition C.10, a certificate of construction signed by a professional engineer that each component was constructed as proposed in the information submitted as required by Condition C.35: prepared subgrade, leachate detection zone, clay liner, synthetic liner, and protective cover zone. A certificate of construction shall be provided for the impoundment's liner system. A quality assurance/quality control report for each component of the liner system shall be submitted concurrently with the certificate of construction.

37. Within one (1) month of awarding contractor bids for the design of the Phase A FGD By-Product wastewater treatment system, the permittee shall provide notification of such to the addresses referenced in Condition C.10. Within six (6) months of the notification date, the permittee shall provide to the addresses referenced in Condition C.10, detailed design drawings and a thorough, detailed description of the treatment system to be utilized to treat Phase A FGD By-Product leachate.

38. The permittee may elect to monitor Total Chromium instead of Hexavalent Chromium at Outlets 012, 014, 015, 016, 017, 025, 027, and 028 until such time that Total Chromium concentrations exceed .011 mg/l. Should such occur, Hexavalent Chromium monitoring shall be required.

39. Within one (1) month of awarding contractor bids for the design of Surface Impoundments 016 and 017, the permittee shall provide notification of such to the addresses referenced in Condition C.10. Within six (6) months of the notification date, the permittee shall submit to the addresses referenced in Condition C.10 for review and approval detailed drawings signed by a registered professional engineer clearly depicting the location and design of proposed Surface Impoundment Numbers 016 and 017. The impoundment shall meet the design requirements of Sections 4.5.b.3.A.3, 4.5.b.3.A.5, 4.5.b.3.A.6, 4.5.b.3.A.7.(a), 4.5.b.3.A.7.(b), 4.5.b.3.A.7.(c), 4.5.b.3.A.7. (d), 4.5.b.3.A.7(e), 4.5.b.3.A.7(f), 4.5.b.3.A.7(i), 4.5.b.3.A.7(j) 4.5.b.3.A.10, and 4.5.b.4.a of Title 33, Series 1 and shall be fitted with a liner system consisting of the following components in ascending order: prepared subbase, leachate detection/underdrain layer, clay liner, and protective cover zone. The prepared subbase shall meet the design requirements specified in Sections 4.5.d.3.A.1, 4.5.d.3.A.2, 4.5.d.3.A.3, 4.5.d.3.A.4, and 4.5.d.3.A.5 of Title 33, Series 1. The leachate detection/underdrain layer shall meet the design requirements of Sections 4.5.d.4.A.1, 4.5.d.4.A.2, 4.5.d.4.A.3, 4.5.d.4.A.4, 4.5.d.4.A.5.(a), 4.5.d.4.A.5.(b), 4.5.d.4.A.5.(c), 4.5.d.4.A.5.(d), 4.5.d.4.A.5.(e), 4.5.d.4.A.5.(f), and 4.5.d.4.A.5.(g) of Title 33, Series 1. The clay liner shall meet the design requirements of Sections 4.5.d.5.A.1, 4.5.d.5.A.2, 4.5.d.5.A.3, 4.5.d.5.A.4, 4.5.d.5.A.5, 4.5.d.5.A.6, 4.5.d.5.A.7, 4.5.d.5.A.8, and 4.5.d.5.A.9 of Title 33, Series 1 and the protective cover zone shall meet the design requirements specified in Sections 4.5.d.6.A.2, 4.5.d.6.A.4, 4.5.d.6.A.5, and 4.5.d.6.A.6 of Title 33, Series 1. Concurrent with the submission of the drawings, a Quality

    Assurance/Quality Control Plan - Construction Quality Assurance Plan signed by a registered professional engineer shall be provided which shall include the requirements of Sections 3.7.g, 4.5.e, 4.5.e.1, 4.5.e.2.A, 4.5.e.2.B, 4.5.e.2.C, 4.5.e.2.D, 4.5.e.2.E, 4.5.e.2.F, 4.5.e.2.H, and 4.5.e.2.I of Title 33, Series 1.

Section C - Other Requirements

40. The permittee shall submit under seal to the addresses indicated in Condition C.10 within three (3) months of the completion of construction of each of Phase A Surface Impoundments Numbers 16 and 17, a certificate of construction signed by a registered professional engineer that the following components of the liner systems of Surface Impoundment Numbers 16 and 17 were constructed as referenced in the information submitted with Condition C.39: prepared subgrade, leachate detection/underdrain layer, clay liner, and protective cover zone. A quality assurance/quality control (QA/QC) report for each component of the liner system shall be submitted concurrently with the certificate of construction. The construction certification and QA/QC report shall be submitted for each component prior to the construction of the overlying component with the exception of the construction certification and QA/QC report for the protective cover material being submitted prior to the placement into service of the impoundment. Should time constraints prohibit the submission of the certificate of construction and QA/QC control report for a particular component prior to the construction of a overlying component, an interim certificate of construction shall be submitted stating that the component was constructed as proposed in the information provided as required by Condition C.39 and that a formal certification of construction and QA/QC report will be provided within ninety days of the submission of the interim certificate of construction.

41. Subsequent to the retrofitting of the liner system of the Phase A FGD By-Product North Leachate Storage Impoundment, the permittee shall obtain samples for leachate monitoring location LM8 by combining equal volumes from the Phase A FGD By-Product North Leachate Storage Impoundment and the Phase A FGD By-Product South Leachate Storage Impoundment. Prior to the retrofitting, samples for LM8 shall be obtained from the Phase A FGD By-Product South Leachate Storage Impoundment.

42. Within one (1) month of awarding contractor bids for the design of the Phase A FGD By-Product wastewater treatment system, the permittee shall provide notification of such to the addresses referenced in Condition C.10. Within six (6) months of the notification date, the pemittee shall provide to the addresses referenced in Condition C.10 the results of a detailed study which shall provide measures to be undertaken to ensure that the dissolution of salt cake does not create stability concerns at the Phase A FGD By-Product Disposal Facility.

43. Within one (1) month of awarding contractor bids for the design of the refurbishment of Phase A FGD By-Product Disposal Cell No. 1, the permittee shall provide notification of such to the addresses referenced in Condition C.10. Within six (6) months of the notification date, the permittee shall provide to the addresses referenced in Condition C.10, design details regarding the refurbishment project. A narrative shall be provided detailing measures to be effected to refurbish Cell No. 1.

44. The limitation for pH is 6.0 Standard Units minimum.

45. The sample frequency of 1/quarter shall be defined as a minimum of one sample taken in each of the following periods: January 1 - March 31; April 1 - June 30; July 1 - September 30; October 1 - December 31.

46. The sample frequency of 1/6 months shall be defined as a minimum of one sample taken every six months, beginning with the effective date of the permit.

47. Within one (1) year of the effective date of the permit, the permittee shall submit to the addresses referenced in Condition C.10 a proposal to meet the permit limitations referenced in Sections A.012 and A.015. At a minimum, factors to be considered shall include chemical treatment and construction of a wetland treatment system.

48. Within one (1) month of the removal of Outlet 023 due to the construction of West Virginia Corridor H, the permittee shall provide notification of such to the addresses referenced in Condition C.10. Concurrent with its removal, Outlet No. 023 shall become a non-inspectable unit.

The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0110256; with the plan of maintenance and method of operation thereof submitted with such application(s); and with any applicable rules and regulations promulgated by the Environmental Quality Board and the Secretary of the Department of Environmental Protection.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0110256; and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and the invocation of all the enforcement procedures set forth in Chapter 22, Article 11, or 15 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Chapter 22, Article 11 and 12 and/or 15 of the Code of West Virginia and is transferable under the terms of Section 11 of Article 11.

_____
Scott G. Mandirola, Director

WEST VIRGINIA
Department of Environmental Protection

Division of Water and Waste Management

ANNUAL CERTIFICATION

SOLID WASTE/NPDES NUMBER WV0110256
STORM WATER ASSOCIATED WITH INDUSTRIAL ACTIVITY

Outlet Number(s) _____ Coverage Date _____ 20___

1. Name of Facility Phase A & B Disposal Facility

2. Location _____ Mt. Storm, WV _____ Grant
Street or Highway City County

3. Responsible Authority _____

4. Official Title _____ Telephone No. (_____) _____

5. Mailing Address 436 Dominion Boulevard Mt. Storm, WV 26739
Street or Highway City Zip Code

6. Certification: (Please make one(1) of the following boxes)

9 Low Concentration Monitoring Waiver Certification in accordance with Condition B.4. of the Storm Water General Permit.

* A review of all Discharge Monitoring Reports and other analyses is enclosed for your consideration. There is no indication that the assigned benchmark values listed below were exceeded during the four (4) latest samples submitted.

PARAMETER	mg/l	PARAMETER	mg/l	PARAMETER	mg/l

9 Annual Low Concentration Monitoring Waiver Certification in accordance with Condition B.4 of the Storm Water General Permit.

* There has not been a significant change in the industrial activity or the pollution prevention measures in the area of facility that drains to the outlet for which sampling was waived.

9 Annual Alternative Certification in accordance with Condition B.5 of the Storm Water General Permit.

* Material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, industrial, machinery or operations, or significant materials from past industrial activity, that are located in areas of the facility within the drainage area of the outfall are not presently exposed to storm water and are not expected to be exposed to storm water for the certification period.

I certify under penalty of law that I have personally examined and am familiar with the information required on this form and including:

X Storm Water Pollution Prevention Plan (SWPPP) is currently updated and open for inspection at the facility.
X Groundwater Protection Plan is currently updated and open for inspection at the facility.
X A complete review and inspection will be conducted on an annual basis to update the SWPPP and the GPP and Best Management Practices will be considered to lessen any storm water contamination at this site.

Based on my inquiry of those individuals immediately responsible for obtaining the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

OFFICIAL SIGNATURE _____ DATE _____ 20___

PLEASE MAKE ADDITIONAL BLANK COPIES OF THIS REPORT FOR EACH YEAR OF THE LIFE OF THE PERMIT.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT

FACT SHEET

APPLICATION FOR STATE NPDES WATER POLLUTION CONTROL PERMIT

1. NAME & ADDRESS OF APPLICANT:

Virginia Electric and Power Company
5000 Dominion Boulevard
Glen Allen, VA 23060

2. NAME & ADDRESS OF FACILITY:

Virginia Electric and Power Company
436 Dominion Boulevard
Mt. Storm, WV 26739

3. STATE SW/ NPDES APPLICATION NO. WV0110256

4. COUNTY: Grant

RECEIVING STREAMS 1) Unnamed tributaries of Mt. Storm Lake of Stony River, a tributary of the Potomac River; 2) unnamed tributary of Fourmile Run, a tributary of Stony River, a tributary of the Potomac River.

5. PUBLIC NOTICE NO._____

COMMENT PERIOD_____**TO**_____

6. SIC CODES: 4953

7. DESCRIPTION OF APPLICANT'S FACILITY OR ACTIVITY:

BUSINESS: Electrical Power Generation

ACTIVITY:

1. Construct and operate a disposal system (industrial solid waste landfill), referenced as the Phase A FGD By-Product Disposal Facility, in the drainage basin of an unnamed tributary of Mount Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River, for the disposal of: 1) flue gas desulphurization system (FGD) wastes generated at the Mt. Storm Power Station; 2) materials derived from the clean out of the Phase A FGD By-Product Disposal Facility's North and South Leachate Storage Impoundments and Phase A Surface Impoundments 16 and 17, 3) materials derived from the Phase A FGD By-Product wastewater treatment plant, and 4) materials derived from the metal cleanings surface impoundment located at the Mt. Storm Power Station.

2. Construct and operate a disposal system (industrial solid waste landfill), referenced as the Phase B Disposal Area, in the drainage basin of Mt. Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River, for the disposal of 1) flyash; bottom ash; pit ash; pyrites; construction/demolition materials; waste materials derived from general housecleaning, maintenance and/or repair work (rock, waste coal, coal/sediment fines, and gravel); materials derived from the clean out of the metal cleanings surface impoundment; and materials derived from the cleanout of the low volume water surface impoundments; all of which are generated at the Mt. Storm Power Station; 2) materials derived from the clean out of Leachate Surface Impoundment "B" regulated by Solid Waste/NPDES Water Pollution Control Permit No. WV0077461; 3) materials derived from the clean out of Phase B Surface Impoundment Numbers 14 and 15, Phase A Surface Impoundment Numbers 12 and 25, Borrow area Surface Impoundment Numbers 13 and 26, 4) materials derived from the former Buffalo Coal Company Surface Impoundment Numbers 1 and 2 operating under authority of WV/NPDES Permit No. WV0098744, 5) rock and soil materials derived from the repair of the Buffalo Coal Company haulroad located on VEPCO property operating under authority of WV/NPDES Permit No. WV0098744, and 6) the following materials derived from the VEPCO's North Branch Power Station: sedimentation pond dredgings, construction/demolition materials, and coal combustion by-products.

3. Construct and operate disposal systems (surface impoundments) for the direct discharge of treated industrial wastes or other wastes (storm water runoff and leachate) into the waters of unnamed tributaries of Mt. Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River (Outlets 012, 013, 014, 015, 016, 017, 020, 021, 022, 025, 026, 027, and 028) and the waters of unnamed tributaries of Fourmile Run, a tributary of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River (Outlets 018, 019, 023, and 024).

4. Monitor a closed disposal system (industrial solid waste landfill), referenced as the Phase A Ash Disposal Facility, in the drainage basin of an unnamed tributary of Mount Storm Lake of Stony River, a tributary of the North Branch of the Potomac River, a tributary of the Potomac River.

5. Construct and operate a leachate collection and conveyance system or parts thereof, for the indirect discharge of industrial waste (storm water runoff and leachate) through a treatment system operating under WV/NPDES Water Pollution Control Permit No. WV0093556.

8. DESCRIPTION OF DISCHARGE(S) (as reported by applicant):

OUTLET NO. 012 **OPERATIONS CONTRIBUTING FLOW** Storm water runoff and leachate from the closed Phase A ash disposal facility

EFFLUENT CHARACTERISTICS: Below is a summary of the effluent characteristics based upon monthly Discharge Monitoring Reports submitted by the permittee as required by Permit No. WV0110256 for the period January 2009 through April 2012.

pH Range 6.8 – 12.12 Standard Units

Parameter	Quantity Daily Avg.	Quantity Daily Max.	Quantity Units	Other Units Daily Avg.	Other Units Daily Max.	Other Units Units
Flow	N/A	N/A	N/A	.115	1.24	mgd
Total Dissolved Solids	N/A	N/A	N/A	1193	1896	mg/l
Total Suspended Solids	N/A	N/A	N/A	4.8	50	mg/l
Hardness	N/A	N/A	N/A	805	1300	mg/l
Chloride	N/A	N/A	N/A	13.5	49.8	mg/l
Total Nitrogen	N/A	N/A	N/A	.37	1.42	mg/l
Total Kjeldahl Nitrogen	N/A	N/A	N/A	.309	1.29	mg/l
Nitrate plus Nitrite Nitrogen	N/A	N/A	N/A	.132	.4	mg/l
Phosphorus	N/A	N/A	N/A	.027	.11	mg/l
Aluminum	N/A	N/A	N/A	.03	.161	mg/l
Antimony	N/A	N/A	N/A	.0047	.012	mg/l
Arsenic	N/A	N/A	N/A	.0034	.011	mg/l
Boron	N/A	N/A	N/A	.93	1.63	mg/l
Cadmium	N/A	N/A	N/A	<.0003	<.0003	mg/l
Chromium	N/A	N/A	N/A	<.001	<.001	mg/l
Copper	N/A	N/A	N/A	.001	.002	mg/l
Iron	N/A	N/A	N/A	.24	.95	mg/l
Lead	N/A	N/A	N/A	<.001	.001	mg/l
Manganese	N/A	N/A	N/A	.159	.91	mg/l
Nickel	N/A	N/A	N/A	.016	.055	mg/l
Selenium	N/A	N/A	N/A	.005	.009	mg/l
Silver	N/A	N/A	N/A	<.0001	<.0001	mg/l
Sulfate	N/A	N/A	N/A	735	1350	mg/l

OUTLET NUMBER 013 **OPERATIONS CONTRIBUTING FLOW** – Stormwater runoff from Impoundment No. 13 - No discharges were reported during the period September 2006 through February 2012.

OUTLET NUMBER 014 **OPERATIONS CONTRIBUTING FLOW** Stormwater runoff from the inactive Phase B Disposal Facility

EFFLUENT CHARACTERISTICS: Below is a summary of the effluent characteristics based upon monthly Discharge Monitoring Reports submitted by the permittee as required by Permit No. WV0110256 for the period January 2009 through April 2012.

pH Range 6.5 – 8.6 Standard Units

Parameter	Quantity Daily Avg.	Quantity Daily Max.	Quantity Units	Other Units Daily Avg.	Other Units Daily Max.	Other Units Units
Flow	N/A	N/A	N/A	.09	1.04	mgd
Total Dissolved Solids	N/A	N/A	N/A	241	841	mg/l
Total Suspended Solids	N/A	N/A	N/A	2.8	8	mg/l
Aluminum	N/A	N/A	N/A	.032	.277	mg/l
Iron	N/A	N/A	N/A	.06	.3	mg/l
Manganese	N/A	N/A	N/A	.045	.27	mg/l
Sulfate	N/A	N/A	N/A	117	473	mg/l
Total Nitrogen	N/A	N/A	N/A	.51	.99	mg/l
Nitrate/Nitrite Nitrogen	N/A	N/A	N/A	.195	.68	mg/l
Total Kjeldahl Nitrogen	N/A	N/A	N/A	.325	1.36	mg/l
Phosphorus	N/A	N/A	N/A	.014	.02	mg/l

OUTLET NO. 015 **OPERATIONS CONTRIBUTING FLOW** Storm water runoff and leachate from the active Phase B Ash Disposal Facility

EFFLUENT CHARACTERISTICS: Below is a summary of the effluent characteristics based upon monthly Discharge Monitoring Reports submitted by the permittee as required by Permit No. WV0110256 for the period September 2011 through April 2012. Outlet was placed into service during September 2011.

pH Range 6.7 – 9.9 Standard Units

Parameter	Quantity Daily Avg.	Daily Max.	Units	Other Units Daily Avg.	Daily Max.	Units
Flow	N/A	N/A	N/A	.204	.483	mgd
Total Dissolved Solids	N/A	N/A	N/A	107	222	mg/1
Total Suspended Solids	N/A	N/A	N/A	8	24	mg/1
Ammonia Nitrogen	N/A	N/A	N/A	.09	.15	mg/l
Total Nitrogen	N/A	N/A	N/A	.54	.84	mg/l
Total Kjeldahl Nitrogen	N/A	N/A	N/A	.14	.22	mg/l
Nitrate plus Nitrite Nitrogen	N/A	N/A	N/A	.313	.84	mg/l
Phosphorus	N/A	N/A	N/A	.16	.19	mg/l
Aluminum	N/A	N/A	N/A	.656	1.8	mg/l
Antimony	N/A	N/A	N/A	.0014	.002	mg/1
Arsenic	N/A	N/A	N/A	.038	.05	mg/l
Boron	N/A	N/A	N/A	.128	.22	mg/l
Cadmium	N/A	N/A	N/A	<.0003	<.0003	mg/1
Chromium	N/A	N/A	N/A	.004	.011	mg/l
Copper	N/A	N/A	N/A	.0014	.003	mg/l
Iron	N/A	N/A	N/A	.246	.87	mg/1
Lead	N/A	N/A	N/A	<.001	<.001	mg/1
Manganese	N/A	N/A	N/A	.036	.09	mg/l
Nickel	N/A	N/A	N/A	.008	.018	mg/1
Selenium	N/A	N/A	N/A	.0032	.004	mg/1
Silver	N/A	N/A	N/A	<.0001	<.0001	mg/l
Sulfate	N/A	N/A	N/A	44.6	93.8	mg/l
Vanadium	N/A	N/A	N/A	.021	.064	mg/l

OUTLET NUMBER 016 **OPERATIONS CONTRIBUTING FLOW**
Storm water runoff from the Phase A FGD By-Product Disposal Facility; leachate from the closed Phase A Ash Disposal Facility

EFFLUENT CHARACTERISTICS: No data available. This is a proposed outlet.

OUTLET NUMBER 017 **OPERATIONS CONTRIBUTING FLOW**
Storm water runoff from the Phase A FGD By-Product Disposal Facility; leachate from the closed Phase A Ash Disposal Facility

EFFLUENT CHARACTERISTICS: No data available. This is a proposed outlet.

OUTLET NO. 022 **OPERATIONS CONTRIBUTING FLOW** Storm water runoff from the Phase A and Phase B Facility haulroad

EFFLUENT CHARACTERISTICS: Below is a summary of the effluent characteristics based upon semi-annual Discharge Monitoring Reports submitted by the permittee as required by Permit No. WV0110256 for the period June 2008 through February 2012.

pH Range 7.2 – 8.4 Standard Units

Parameter	Quantity Daily Avg.	Daily Max.	Other Units Units	Daily Avg.	Daily Max.	Units
Flow	N/A	N/A	N/A	.008	.01	mgd
Total Suspended Solids	N/A	N/A	N/A	3.1	8	mg/l
Iron	N/A	N/A	N/A	.19	.42	mg/l
Manganese	N/A	N/A	N/A	.04	.07	mg/l
Chloride	N/A	N/A	N/A	96	304	mg/l
Beryllium	N/A	N/A	N/A	<.0002	.0002	mg/l
Total Cyanide	N/A	N/A	N/A	.008	.02	mg/l
Total Nitrogen	N/A	N/A	N/A	.60	2.06	mg/l
Nitrate plus Nitrite Nitrogen	N/A	N/A	N/A	.093	.35	mg/l
Total Kjeldahl Nitrogen	N/A	N/A	N/A	.63	1.71	mg/l
Total Phosphorus	N/A	N/A	N/A	.035	.14	mg/l

OUTLET NO. 024 **OPERATIONS CONTRIBUTING FLOW** Storm water runoff discharge from limestone haulroad

EFFLUENT CHARACTERISTICS: Below is a summary of the effluent characteristics based upon semi-annual Discharge Monitoring Reports submitted by the permittee as required by Permit No. WV0110256 for the period June 2008 through February 2012.

pH Range 7.1 – 8.4 Standard Units

Parameter	Quantity Daily Avg.	Daily Max.	Other Units Units	Daily Avg.	Daily Max.	Units
Flow	N/A	N/A	N/A	.0001	.0001	mgd
Total Suspended Solids	N/A	N/A	N/A	3	8	mg/l
Chloride	N/A	N/A	N/A	107	180	mg/l
Total Cyanide	N/A	N/A	N/A	.0065	.017	mg/l
Total Nitrogen	N/A	N/A	N/A	.58	1.28	mg/l
Nitrate plus Nitrite Nitrogen	N/A	N/A	N/A	.22	.55	mg/l
Total Kjeldahl Nitrogen	N/A	N/A	N/A	.35	.86	mg/l
Total Phosphorus	N/A	N/A	N/A	.023	.05	mg/l

OUTLET NO. 025 **OPERATIONS CONTRIBUTING FLOW** Storm water runoff from the closed Phase A Ash Disposal Facility

EFFLUENT CHARACTERISTICS: Below is a summary of the effluent characteristics based upon semi-annual Discharge Monitoring Reports submitted by the permittee as required by Permit No. WV0110256 for the period June 2008 through February 2012.

pH Range 6.8 – 8.1 Standard Units

Parameter	Quantity Daily Avg.	Daily Max.	Other Units Units	Daily Avg.	Daily Max.	Units
Flow	N/A	N/A	N/A	.0001	.0001	mgd
Total Suspended Solids	N/A	N/A	N/A	4.6	17	mg/l
Chloride	N/A	N/A	N/A	.80	.89	mg/l
Sulfate	N/A	N/A	N/A	23.6	32	mg/l
Total Nitrogen	N/A	N/A	N/A	.225	.38	mg/l
Nitrate plus Nitrite Nitrogen	N/A	N/A	N/A	.037	.13	mg/l
Total Kjeldahl Nitrogen	N/A	N/A	N/A	.21	.47	mg/l
Total Phosphorus	N/A	N/A	N/A	.034	.13	mg/l

OUTLET NUMBER 026 **OPERATIONS CONTRIBUTING FLOW**
Storm water runoff from proposed soil borrow area.

EFFLUENT CHARACTERISTICS: No data available. This is a proposed outlet.

OUTLET NUMBER 027 **OPERATIONS CONTRIBUTING FLOW**
Surface Impoundment No. 015 leachate detection/underdrain system discharge

EFFLUENT CHARACTERISTICS: No data available. This is a proposed outlet.

OUTLET NUMBER 028 **OPERATIONS CONTRIBUTING FLOW**
Surface Impoundment No. 015 leachate detection/underdrain system discharge

EFFLUENT CHARACTERISTICS: No data available. This is a proposed outlet.

9. PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS:

Outlet No. 012

Parameter	Quantity Avg. Mo.	Quantity Max. Daily	Quantity Units	Other Units Ave. Mo.	Other Units Max. Daily	Other Units Units	Freq.
Flow	N/A	N/A	N/A	N/A	Monitor	mgd	1/month
Total Dissolved Solids	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Total Suspended Solids	N/A	N/A	N/A	N/A	100	mg/1	1/month
Hardness	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Chloride	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Aluminum	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Antimony	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Arsenic	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Boron	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Cadmium	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Chromium	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Hexavalent Chromium	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Copper	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Iron	N/A	N/A	N/A	1.07	2.69	mg/1	1/month
Lead	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Manganese	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Mercury	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Nickel	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Silver	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Total Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Total Kjeldahl Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Nitrate plus Nitrate Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Total Phosphorus	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Selenium	N/A	N/A	N/A	.004	.0086	mg/l	1/month
Sulfate	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
pH	N/A	N/A	N/A	N/A	6.0*	S.U.	1/month
Acute Toxicity – Invertebrate	N/A	N/A	N/A	N/A	monitor	TUa	1/6 mo.
Acute Toxicity – Pimephales	N/A	N/A	N/A	N/A	monitor	TUa	1/6 mo.

*Daily Mininum

Outlet No. 013

Parameter	Quantity Avg. Mo.	Quantity Max. Daily	Quantity Units	Other Units Ave. Mo.	Other Units Max. Daily	Other Units Units	Freq.
Flow	N/A	N/A	N/A	N/A	Monitor	mgd	1/6 mo.
Total Suspended Solids	N/A	N/A	N/A	N/A	100	mg/l	1/6 mo.
Aluminum	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.
Iron	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.
pH	N/A	N/A	N/A	N/A	Monitor	S.U.	1/6 mo.
Total Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.
Total Kjeldahl Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.
Nitrate plus Nitrate Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.
Phosphorus	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.

Outlet No. 014

Parameter	Quantity Avg. Mo.	Quantity Max. Daily	Quantity Units	Other Units Ave. Mo.	Other Units Max. Daily	Other Units Units	Freq.
Flow	N/A	N/A	N/A	N/A	Monitor	mgd	1/month
Total Dissolved Solids	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Total Suspended Solids	N/A	N/A	N/A	N/A	50	mg/l	1/month
Aluminum	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Antimony*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Arsenic*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Boron*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Cadmium*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Chromium*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Hexavalent Chromium*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Copper*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Hardness*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Iron	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Lead*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Manganese	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Mercury*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Nickel*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Selenium*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Silver*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Vanadium*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Total Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Total Kjeldahl Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Nitrate plus Nitrite Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Ammonia Nitrogen*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Total Phosphorus	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Sulfate	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
pH	N/A	N/A	N/A	N/A	6.0*	S.U.	1/month
Acute Toxicity – Invertebrate	N/A	N/A	N/A	N/A	monitor	TUa	1/6 mo.
Acute Toxicity – Pimephales	N/A	N/A	N/A	N/A	monitor	TUa	1/6 mo.

*See Condition C.18. of this Fact Sheet.
** Daily Min.

Outlet No. 015

Parameter	Quantity Avg. Mo.	Quantity Max. Daily	Units	Other Units Ave. Mo.	Other Units Max. Daily	Units	Freq.
Flow	N/A	N/A	N/A	N/A	Monitor	mgd	1/month
Total Dissolved Solids	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Total Suspended Solids	N/A	N/A	N/A	N/A	50	mg/l	1/month
Aluminum	N/A	N/A	N/A	.37	.75	mg/1	1/month
Antimony	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Arsenic	N/A	N/A	N/A	.01	.0146	mg/l	1/month
Boron	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Cadmium	N/A	N/A	N/A	N/A.	Monitor	mg/1	1/month
Chromium	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Copper	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Hardness	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Hexavalent Chromium	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Iron	N/A	N/A	N/A	N/A	1.5	mg/1	1/month
Lead	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Manganese	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Mercury	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Nickel	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Selenium	N/A	N/A	N/A	.004	.008	mg/1	1/month
Silver	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Vanadium	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Total Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Total Kjeldahl Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Nitrate plus Nitrate Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Ammonia Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Total Phosphorus	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Sulfate	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
pH	N/A	N/A	N/A	N/A	6.0*	S.U.	1/month
Acute Toxicity – Invertebrate	N/A	N/A	N/A	N/A	monitor	TUa	1/6 mo.
Acute Toxicity – Pimephales	N/A	N/A	N/A	N/A	monitor	TUa	1/6 mo.

*Daily Mininum

Outlet Numbers 016 & 017

Parameter	Quantity Avg. Mo.	Quantity Max. Daily	Units	Other Units Ave. Mo.	Other Units Max. Daily	Units	Freq.
Flow	N/A	N/A	N/A	N/A	Monitor	mgd	1/month
Total Dissolved Solids	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Total Suspended Solids	N/A	N/A	N/A	N/A	100	mg/1	1/month
Hardness	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Chloride	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Aluminum	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Antimony	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Arsenic	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Boron	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Cadmium	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Chromium	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Copper	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Iron	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Lead	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Manganese	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Mercury	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Nickel	N/A	N/A	N/A	N/A	Monitor	mg/1	1/month
Silver	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Total Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Total Kjeldahl Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Nitrate plus Nitrate Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Total Phosphorus	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Selenium	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Sulfate	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
pH	N/A	N/A	N/A	N/A	6.0*	S.U.	1/month
Acute Toxicity – Invertebrate	N/A	N/A	N/A	N/A	monitor	TUa	1/6 mo.
Acute Toxicity – Pimephales	N/A	N/A	N/A	N/A	monitor	TUa	1/6 mo.

*Daily Minimum

Outlet No. 022

Parameter	Quantity Avg. Mo.	Quantity Max. Daily	Units	Other Units Ave. Mo.	Other Units Max. Daily	Units	Freq.
Flow	N/A	N/A	N/A	N/A	Monitor	mgd	1/ 6 mo.
Total Suspended Solids	N/A	N/A	N/A	N/A	100	mg/l	1/ 6 mo.
Total Cyanide	N/A	N/A	N/A	N/A	Monitor	mg/l	1/ 6 mo.
Chloride	N/A	N/A	N/A	N/A	Monitor	mg/l	1/ 6 mo.
Iron	N/A	N/A	N/A	N/A	Monitor	mg/l	1/ 6 mo.
pH	N/A	N/A	N/A	N/A	Monitor	S.U.	1/ 6 mo.
Total Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/ 6 mo.
Total Kjeldahl Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.
Nitrate plus Nitrite Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.
Phosphorus	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.

Outlet No. 024

Parameter	Quantity Avg. Mo.	Quantity Max. Daily	Units	Other Units Ave. Mo.	Other Units Max. Daily	Units	Freq.
Flow	N/A	N/A	N/A	N/A	Monitor	mgd	1/ 6 mo.
Total Suspended Solids	N/A	N/A	N/A	N/A	100	mg/l	1/ 6 mo.
Total Cyanide	N/A	N/A	N/A	N/A	Monitor	mg/l	1/ 6 mo.
Chloride	N/A	N/A	N/A	N/A	Monitor	mg/l	1/ 6 mo.
pH	N/A	N/A	N/A	N/A	Monitor	S.U.	1/ 6 mo.
Total Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.
Total Kjeldahl Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.
Nitrate plus Nitrite Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.
Phosphorus	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.

Outlet No. 025

Parameter	Quantity Avg. Mo.	Quantity Max. Daily	Units	Other Units Ave. Mo.	Other Units Max. Daily	Units	Freq.
Flow	N/A	N/A	N/A	N/A	Monitor	mgd	1/ 6 mo./1/month
Total Dissolved Solids*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/ month.
Total Suspended Solids	N/A	N/A	N/A	N/A	100	mg/l	1/ 6 mo./1/month
Hardness*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/ month
Chloride	N/A	N/A	N/A	N/A	Monitor	mg/l	1/ 6 mo/1/month
Aluminum*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/ month
Antimony*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month.
Arsenic*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Boron*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Cadmium*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Chromium*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/ month
Copper*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/ month
Hexavalent Chromium*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Iron*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Lead*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Manganese*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Mercury*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Nickel*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Selenium*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Silver*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/month
Total Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Total Kjeldahl Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Nitrate plus Nitrite Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Total Phosphorus	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Sulfate*	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo/1/month
pH	N/A	N/A	N/A	N/A	6.0*	S.U.	1/6 mo/1/month

*See Condition C.7. of this Fact Sheet.

**Daily Mininum

Outlet No. 026

Parameter	Quantity Avg. Mo.	Quantity Max. Daily	Quantity Units	Other Units Ave. Mo.	Other Units Max. Daily	Other Units Units	Freq.
Flow	N/A	N/A	N/A	N/A	Monitor	mgd	1/ 6 mo.
Total Suspended Solids	N/A	N/A	N/A	N/A	100	mg/1	1/ 6 mo.
Aluminum	N/A	N/A	N/A	N/A	Monitor	mg/1	1/ 6 mo.
Iron	N/A	N/A	N/A	N/A	Monitor	mg/1	1/ 6 mo.
pH	N/A	N/A	N/A	N/A	Monitor	S.U.	1/ 6 mo.
Total Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/ 6 mo.
Total Kjeldahl Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.
Nitrate plus Nitrite Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.
Phosphorus	N/A	N/A	N/A	N/A	Monitor	mg/l	1/6 mo.

Outlet Numbers 027 and 028

Parameter	Quantity Avg. Mo.	Quantity Max. Daily	Quantity Units	Other Units Ave. Mo.	Other Units Max. Daily	Other Units Units	Freq.
Flow	N/A	N/A	N/A	N/A	Monitor	mgd	1/quarter
Total Dissolved Solids	N/A	N/A	N/A	N/A	Monitor	mg/1	1/quarter
Total Suspended Solids	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Aluminum	N/A	N/A	N/A	N/A	Monitor	mg/1	1/quarter
Antimony	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Arsenic	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Boron	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Cadmium	N/A	N/A	N/A	N/A	Monitor	mg/1	1/quarter
Chromium	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Copper	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Hexavalent Chromium	N/A	N/A	N/A	N/A	Monitor	mg/1	1/quarter
Iron	N/A	N/A	N/A	N/A	Monitor	mg/1	1/quarter
Lead	N/A	N/A	N/A	N/A	Monitor	mg/1	1/quarter
Manganese	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Mercury	N/A	N/A	N/A	N/A	Monitor	mg/1	1/quarter
Nickel	N/A	N/A	N/A	N/A	Monitor	mg/1	1/quarter
Selenium	N/A	N/A	N/A	N/A	Monitor	mg/1	1/quarter
Silver	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Vanadium	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Total Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Total Kjeldahl Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Nitrate plus Nitrate Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Ammonia Nitrogen	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Total Phosphorus	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
Sulfate	N/A	N/A	N/A	N/A	Monitor	mg/l	1/quarter
pH	N/A	N/A	N/A	N/A	Monitor	S.U.	1/quarter

REGULATORY AUTHORITY

General authority for the proposed permit conditions relating to site discharges are taken from Title 47, Series 2, Requirements Governing Water Quality Standards, and Title 47, Series 10, National Pollutant Discharge Elimination System (NPDES) Program, of the West Virginia Legislative Rules (WVLR) effective June 27, 2011, and July 1, 2010, respectively, relating to Chapter 22 Article 11 of the West Virginia Code. General authority is also taken from Title 33, Series 1, Solid Waste Management Rule (SWMR), effective May 1, 2010 relating to Chapter 22, Article 15 of the West Virginia Code and from Title 47, Series 12, Regulations Governing Groundwater Standards, effective July 1, 2011, relating to Chapter 22, Article 12 of the West Virginia Code. Chapter 22, Article 12, Section 4 of the West Virginia Code requires that the State of West Virginia Environmental Quality Board establish standards of purity and quality for groundwater of the State which shall "establish the Maximum Contaminant Levels permitted for groundwater, but in no event shall such standards allow contaminant levels to exceed Maximum Contaminant Levels adopted by the United States Environmental Protection Agency pursuant to the federal Safe Drinking Water Act." Title 47, Series 12, references concentrations for various inorganic and organic constituents which shall not be exceeded.

BACKGROUND

Water Pollution Control Permit Number IWL-6314-86 effective August 1, 1986, was issued to Virginia Electric Power Company (VEPCO) which authorized the disposal of coal combustion by-products generated at their Mt. Storm Power Station into areas designated as Phase A Disposal Facility and the Phase B Disposal Facility. Phase A, a valley fill consisting of approximately 46 acres, was utilized for disposal from August 1986 until May 1990. Disposal in Phase B is being effected in previously mined portions of a surface mine which was operated by Buffalo Coal Company until the mid 1980s. The completion of mining activities made approximately 155 acres available for disposal which is anticipated to provide storage capacity in the Phase B Disposal Facility through approximately the year 2032.

Solid Waste/NPDES Water Pollution Control Permit Application No. WV0110256 was submitted December 1990 for the purpose of renewing Permit No. IWL-6314-86. By letter dated November 2, 1993, the permittee submitted as an addendum to Application No. WV0110256 information regarding the construction and operation within the Phase A valley of a proposed solid waste disposal facility overlying the closed Phase A Ash Disposal Facility to be utilized for the disposal of flue gas desulphurization (FGD) wastes (Phase A FGD By-Product Disposal Facility). Pursuant to the review of said application, Solid Waste/NPDES Water Pollution Control Permit No. WV0110256 was issued on July 29, 1994 to allow disposal in the Phase A FGD By-Product Disposal Facility. Cell 1 of the Phase A FGD By-Product Disposal Facility was utilized solely for the disposal of FGD wastes until 1996. Since that time, FGD wastes have been utilized for acid mine drainage control by Mettiki Mining Company in western Maryland. Approximately 358 acres are available for disposal of FGD wastes in the Phase A FGD By-Product Disposal Facility, a portion of which will overlie the closed Phase A Ash Disposal Facility. Permit No. WV0110256 was re-issued in 2001 and again in 2006. The permittee submitted Permit Reissuance Application No. WV0110256 dated the 28th day of January 2011 for the renewal of existing Permit No. WV0110256 to allow the continued disposal in the Phase A FGD By-Product Disposal Facility as well as Phase B Disposal Facility. Subsequent to its review, this draft permit and related fact sheet have been prepared in accordance with the public notification requirements referenced in the SWMR.

Through an open ended agreement with Consolidation Coal Company, leachate from the Phase B Disposal Facility will continue to be directed to an underlying multi-million gallon mine pool from which it is pumped to Consolidation Coal Company's Laurel Run Mine acid mine drainage treatment plant operating by authority of WV/NPDES Permit No. WV0093556. Leachate from the Phase A FGD By-Product Disposal Facility is typically routed to the Facility's North and South Leachate Storage Impoundments from which it is pumped to FGD scrubber units located at the Mt. Storm Power Station for use as make-up water. Leachate from the closed Phase A Ash Disposal Facility is currently directed to Phase **A** Surface Impoundment No. 12.

WASTE MATERIALS

Following is a list of waste materials generated at the Mount Storm Power Station disposed in 2011 at the Phase B Disposal Area and their quantities expressed in tons per year as reported in the permittee's 2011 annual report.

Fly Ash	592,344
Bottom Ash	113,098
Pyrites	13,080
Miscellaneous*	788
Total	719,310

*Gravel, Dirt, Broken Concrete, and other miscellaneous debris from excavations and project work at the Mt. Storm Power Station

During 2011, 397,093 tons of FGD-By Product generated at the Mt. Storm Power Station were transported to Mettiki Coal Company in Garrett County, Maryland, for use as acid mine drainage control. The permittee anticipates that commencing during 2013 or 2014 disposal of FGD materials within the Phase A FGD By-Product Disposal Facility will resume.

SPECIFIC PERMIT CONDITIONS - Rationale

DISCHARGE MONITORING REPORTS

Sections A.012 (Outlet 012) – Surface Impoundment No. 12 receives stormwater runoff and leachate from the closed Phase A Ash Disposal Facility.

Continued monthly monitoring of the parameters currently being monitored as required by existing Permit No. WV0110256 is proposed, specifically, pH, Flow, Total Dissolved Solids, Total Suspended Solids, Hardness, Aluminum, Antimony, Arsenic, Boron, Cadmium, Chloride, Copper, Chromium, Iron, Lead, Manganese, Nickel, Silver, Selenium, and Sulfate while continued quarterly monitoring of Total Nitrogen, Total Kjeldahl Nitrogen, Nitrate plus Nitrite Nitrogen, and Phosphorus monitoring is proposed. In addition, Hexavalent Chromium, Mercury, and Acute Toxicity monitoring is proposed. Following is rationale for parameters to be monitored:

Aluminum, Antimony, Arsenic, Boron, Cadmium, Copper, Chromium, Iron, Lead, Manganese, Nickel, Silver, Selenium, Sulfate, - Detectable concentrations of these parameters are frequently present in coal combustion by-products leachate.

pH – In accordance with Title 47, Series 10, the writer proposes that the minimum pH concentration be limited to 6.0 Standard Units.

A maximum pH limit is not imposed at Outlet 012 by existing Permit No. WV0110256 as its discharge serves to buffer the impact of acid mine drainage upon Mt. Storm Lake. Therefore, the writer proposes that no upper pH limitation be imposed.

Total Dissolved Solids - TDS is an excellent indicator of the impact of ash disposal as it measures, among other constituents, dissolved metals and sulfates.

Total Suspended Solids – Continuation of the maximum daily TSS limitation of 100 mg/l imposed by existing Permit No. WV0110256 is proposed through a technology transfer (Best Professional Judgment) from 40CFR, Part 423.12(b)(4).

Chloride – Leachate discharging from the Phase A FGD By-Product Disposal Facility exhibits elevated Chloride concentrations. Although this leachate is directed to the Phase A FGD By-Product North and South Leachate Storage Impoundments, as an assurance the writer proposes that it be monitored as Surface Impoundment No. 12 will receive runoff from the construction of Phase A FGD By-Product Disposal Area.

Flow – Section 6.3.h.l.B of Title 47, Series 10 requires that Flow be monitored.

Hardness – Hardness monitoring is proposed as its concentration is needed to determine the effluent limitations for Hardness dependent parameters.

Mercury – Mercury monitoring is proposed as it may be present in coal combustion by-product leachate. It is the writer's judgment that quarterly monitoring is sufficient to quantify its concentration and is consistent with the Mercury monitoring frequency required for other permitted combustion by-product landfill discharges.

Total Nitrogen, Total Kjeldahl Nitrogen, Nitrate plus Nitrite Nitrogen, Phosphorus – See rationale for Condition C.5.

Acute Toxicity - Semi-annual acute toxicity testing is proposed to supplement the required chemical analyses. During a January 25 - 26, 2011 workshop, EPA Region III representatives advised that they will be requiring that states include biological monitoring, Whole Effluent Toxicity Testing, in NPDES permits to supplement chemical analyses as chemical analyses alone may not be sufficient to determine toxicity. It the permit writer's judgment that Whole Effluent Toxicity Testing is warranted as there is reasonable potential that biological impaction could occur at Outlet 012 as Impoundment No. 12 receives coal combustion by-product leachate.

Hexavalent Chromium – See rationale for Condition C.38.

Utilizing this agency's June 30, 1997 document entitled "Water Quality Standards/Mixing Zones, Implementation Guidance" and the effluent data for Outlet 012 for the period January 2009 through April 2012, average monthly and maximum daily limitations for Iron and Selenium were derived as these constituents exhibited reasonable potential to exceed permit limitations. The writer proposes that the permittee be afforded two years to comply with Selenium limitations in order to allow sufficient time to design and implement treatment technologies. Also, in accordance with Section 6.3.j.1 of Title 47, Series 10, which requires that effluent limitations of a re-issued permit must be at least as stringent as effluent limitations in the previous permit (anti-backsliding), continuation of the maximum daily Total Suspended Solids limitation, and the minimum pH limitation is proposed. A maximum pH is not proposed because the discharge from Outlet 012 will serve to buffer the impact of acid mine drainage upon Mount Storm Lake. As afforded by Section 7.2.1.2 of the EPA's NPDES Permit Writer's Manual dated September 2010, the writer proposes that the average monthly and maximum daily Aluminum limitation imposed by existing Permit No. WV0110256 be discontinued as the discharge from Outlet 012 has not demonstrated a reasonable potential to exceed Aluminum permit limitations.

Section A.013 (Outlet 013) – Surface Impoundment No. 13 receives runoff from a soil borrow area that provides cover materials for the Phase A FGD By-Product Disposal Facility and the Phase B Disposal Facility. Continued semi-annual monitoring of the parameters currently being monitored as required by existing Permit No. WV0110256, specifically, pH, Flow, Total Suspended Solids, Aluminum, Iron, Total Nitrogen, Total Kjeldahl Nitrogen, Nitrate plus Nitrite Nitrogen, and Phosphorus is proposed. Listed below is rationale for monitoring of these parameters. In accordance with Section 6.3.j.1, continuation of the maximum daily Total Suspended Solids limitation imposed by existing Permit No. WV0110256 is proposed. Following is rationale for pararmeter monitoring:

Flow – Section 6.3.h.l.B of Title 47, Series 10 requires that Flow be monitored.

Total Nitrogen, Total Kjeldahl Nitrogen, Nitrate Nitrogen, Nitrite Nitrogen, Phosphorus – See rationale for Condition C.5.

pH – pH is an indicator of water quality.

Aluminum, Iron – Aluminum and Iron are soil constituents that are present in surface water runoff from the soil borrow area.

Section A.014 (Outlet 014) - Surface Impoundment No. 14 currently receives runoff from inactive, vegetated areas of the Phase B Disposal Facility. In the future, as disposal operations progress, surface water runoff from the active Phase B Disposal Facility will be routed to Impoundment No. 14.

Continued monthly monitoring of the parameters currently being monitored as required by existing Permit No. WV0110256, specifically, Flow, Total Dissolved Solids, Total Suspended Solids, pH, Aluminum, Iron, Manganese, and Sulfate, is proposed.

Similarly, continued quarterly monitoring of Total Nitrogen, Total Kjeldahl Nitrogen, Nitrate plus Nitrite Nitrogen, and Phosphorus is proposed. Existing Permit No. WV0110256 delays the monitoring of Antimony, Ammonia Nitrogen, Arsenic, Boron, Cadmium, Copper, Chromium, Lead, Nickel, Selenium, Silver, and Vanadium until such time that Impoundment No.14 receives runoff from active areas of the Phase B Disposal Area as these constituents are frequently present in coal combustion by-products leachate. The writer proposes that this policy continue as referenced in Condition C.18. In addition, the writer proposes the monthly monitoring of Hexavalent Chromium (see Condition C.38 of this Fact Sheet), quarterly Mercury monitoring, and semi-annual Acute Toxicity monitoring. Rationale for the above parameters is provided in Section A.012 above. In addition, monthly Ammonia Nitrogen and Vanadium monitoring is proposed as selective catalytic reactors are utilized at the Mt. Storm Power Station to reduce nitrogen oxide levels in air emissions. This process involves introducing Ammonia in the presence of a catalyst (Vanadium) into the flue gas upstream of the scrubbing units. As such, residual amounts of Ammonia Nitrogen, Nitrate plus Nitrite Nitrogen, and Vanadium are anticipated to be present in coal combustion by-products generated at the Mt. Storm Power Station.

In accordance with Section 6.3.j.1, continuation of the maximum daily Total Suspended Solids limitation and the minimum pH limitation is proposed. A maximum pH is not proposed because the discharge from Outlet 014 will serve to buffer the impact of acid mine drainage upon Mount Storm Lake.

Utilizing this agency's June 30, 1997 document entitled "Water Quality Standards/Mixing Zones, Implementation Guidance" and the effluent data for Outlet 014 for the period January 2009 through April 2012, there was no reasonable potential for Aluminum and Iron to exceed their respective limitations imposed by existing Permit No. WV0110256. Therefore, as afforded by Section 7.2.1.2 of the EPA's NPDES Permit Writer's Manual dated September 2010, the writer proposes these limitations be discontinued.

Section A. 015 (Outlet 015) – Surface Impoundment No. 15 receives stormwater runoff and leachate from active areas of the Phase B Ash Disposal Facility.

Continued monitoring of the parameters currently being monitored as required by existing Permit No. WV010256, as referenced in Section 9 above, is proposed. In addition, the writer proposes the monthly monitoring of Hexavalent Chromium (see Condition C.38 of this Fact Sheet), quarterly Mercury monitoring, and semi-annual Acute Toxicity monitoring. Rationale for the above parameters is provided in Section A.012 above.

Utilizing this agency's June 30, 1997 document entitled "Water Quality Standards/Mixing Zones, Implementation Guidance" and the effluent data for Outlet 015 for September 2011 through April 2012, average monthly and maximum daily limitations for Aluminum, Arsenic, Iron, and Selenium were derived as these constituents exhibited reasonable potential to exceed permit limitations. The writer proposes that the permittee be afforded two years to comply with Aluminum, Arsenic, and Selenium limitations in order to allow sufficient time to design and implement treatment technologies. In accordance with Section 6.3.j.1, continuation of the existing maximum daily Total Suspended Solids limitation, the maximum daily Iron limitation, and the minimum pH limitation is proposed. A maximum pH is not proposed because the discharge from Outlet 015 will serve to buffer the impact of acid mine drainage upon Mount Storm Lake.

Sections A.016 and A.017 (proposed Outlets 016 and 017) – Drawing No. 8962P-C-009 of Application No. WV0110256 indicates that proposed Surface Impoundments 016 and 017 will receive stormwater runoff from the construction of the Phase A FGD By-Product Disposal Facility. After Surface Impoundment No. 12 is removed from service, Surface Impoundments 016 and 017 will also receive leachate from areas of the closed Phase A Ash Disposal Facility that are disturbed during the construction of the Phase A FGD Disposal Area as well as leachate from the leachate collection system of the closed Phase A Ash Disposal Facility. Therefore, the writer proposes that Outlets 016 and 017 be monitored monthly for parameters relative to sediment control as well as those that are related to coal combustion by-products. As Surface Impoundments 016 and 017 will receive waste streams identical to those currently received at Surface Impoundment No. 12, the writer proposes that the parameters being monitored at Outlet 012 be monitored at Outlets 016 and 017. Rationale for these parameters is referenced in Section A.012 above. A maximum daily TSS limitation of 100 mg/l and a mimimum pH limitation of 6.0 S.U. is proposed; rationale for these limitations is provided in Section A.012 above. Surface Impoundments 016 and 017 are scheduled to be constructed during 2014.

Sections A.022 and A.024 (Outlets 022 and 024) – Surface Impoundment No. 22 receives runoff from the Phase A and Phase B haul road while Surface Impoimdment No. 24 receives runoff the Mount Storm Power Station limestone haul road.

Continued semi-annual monitoring of the parameters currently being monitored as required by existing Permit No. WV0110256, as referenced in Section 9 of this Fact Sheet is proposed, as follows. Total Suspended Solids and pH monitoring is proposed to determine compliance with their benchmark concentrations referenced in Conditions C.28 and C.29. Total Nitrogen and Phosphorus monitoring is proposed as specified in Condition C.5. Chloride and Cyanide monitoring is proposed as they are constituents of de-icing materials applied to the haul roads. Iron monitoring is proposed (Outlet 022 only) as it is present in coal combustion by-product leachate; coal combustion by-products may be present along the Phase A and Phase B haul road. The continuation of a maximum daily Total Suspended Solids limitation of 100 mg/l is proposed to achieve compliance with Section 6.3.j.1 which should assure compliance with Section 3.2.a of Title 47, Series 2.

As the discharges from Outlets 022 and 024 are representative of the discharges from the Phase A and B haul road and the limestone haul road, respectively, existing Permit No. WV0110256 does not require the monitoring of Outlets 018, 019, 020, 021, and 023 which receive runoff from the above roads. The writer proposes that this policy continue as sampling of representative discharges is afforded by WV/NPDES Water Pollution Control Permit No. WV0111457 which addresses stormwater associated with industrial activity.

Section A.025 (Outlet 025) - Surface Impoundment No. 25 currently receives stormwater runoff from a portion of the closed, vegetated, Phase A Ash Disposal Facility, but will later receive runoff from portions of the closed Phase A Ash Disposal Facility that are disturbed during the construction of cells within the Phase A FGD By-Product Disposal Facility, as referenced below.

Continued monthly monitoring of pH, Flow, Total Suspended Solids, Chloride, and Sulfate as required by existing Permit No. WV0110256 is proposed. In addition, quarterly Total Nitrogen, Total Kjeldahl Nitrogen, Nitrate plus Nitrite, and Phosphorus monitoring is proposed as explained in Condition C.5 of this Fact Sheet. As referenced in Conditions C.6, and C.7 of this Fact Sheet, Hardness, Aluminum, Antimony, Arsenic, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Nickel, Selenium, Silver, and Total Dissolved Solids monitoring is proposed to commence with the disturbance of the closed Phase A Ash Disposal Facility during the construction of cells within the FGD By-Product Disposal Facility. In addition, quarterly Mercury monitoring is proposed commencing with the disturbance of the Closed Phase A Disposal Facility. Rationale for monitoring of these parameters is referenced in Section A.012 above. In accordance with Section 6.3.j.1, continuation of the existing maximum daily Total Suspended Solids limitation and the minimum pH limitation is proposed. A maximum pH is not proposed because the discharge from Outlet 025 will serve to buffer the impact of acid mine drainage upon Mount Storm Lake.

Section A.026 – (proposed Outlet 026) - As proposed Surface Impoundment No. 26 will receive runoff from a soil borrow area, monitoring requirements identical to Outlet 013 are proposed – see rationale for Section A.013.

Section A.027 – (proposed Outlet 027), Section A.028 – (proposed Outlet 028) - Surface Impoundment No. 15 is underlain by a leachate detection/under drain system that discharges at two separate locations (proposed Outlets 027 and 028). As said discharges discharge to waters of the State, they constitute point sources which are subject to effluent monitoring and limitation requirements. Therefore, the writer proposes that these outlets be monitored for the parameters proposed to be monitored at Outlet No. 015 less acute toxicity (see rationale for Section A.015). As the discharges are composed primarily of groundwater and possibly leachate, the writer proposes that the discharges be monitored quarterly without limitations.

Anti-degradation – Anti-degradation should not pose a concern, as follows. Quantities of pollutants discharged from existing Outlets 012, 013, 014, 015, 018, 019, 020, 021, 022, 023, 024, 025, 027, and 028 are not anticipated to exceed their historical quantities. Also, quantities of pollutants from proposed Outlets 016, 017, and 026 should not pose a concern as Surface Impoundments 016, 017, and 026 will be designed to meet stormwater management guidelines.

LEACHATE MONITORING REPORTS

Sections A.LM2, A.LM3, A.LM4, A.LM6, A.LM8, A.LM9

Leachate discharging from the Phase A FGD By-Product Disposal Facility is directed to impoundments located at the base of the Phase A valley referenced as the North and South Phase A FGD By-Product Leachate Storage Impoundments while leachate generated at the closed Phase A Ash Disposal Facility discharges to Surface Impoundment No. 12. Phase A FGD By-Product Facility leachate is currently monitored at leachate monitoring locations LM2, LM3, LM4, LM5, LM6, and LM8 while leachate generated at the closed Phase A Ash Disposal Facility is currently monitored at leachate monitoring location LM9. It should be noted that because leachate from the Phase B Disposal Facility discharges into underlying mine workings, it cannot physically be monitored.

Section 5.5.b.3.A of the SWMR requires the semi-annual monitoring of leachate at coal combustion by-product facilities for a specific list of parameters (alkalinity, arsenic, barium, bicarbonate, hardness, boron, cadmium calcium, chloride, total and hexavalent chromium, iron, lead, manganese, magnesium, sulfate, total dissolved solids, total organic carbon, specific conductance, and zinc unless waived by the permit writer) and any other parameter that is specifically associated with the wastes being disposed. Therefore, existing Permit No. WV0110256 requires the monitoring of the following parameters at all leachate monitoring locations: pH, Alkalinity, Antimony, Arsenic, Aluminum, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Copper, Chromium, Hardness, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Nitrate plus Nitrite Nitrogen, Selenium, Silver, Specific Conductance, Sulfate, Thallium, Titanium, Total Dissolved Solids, Total Organic Carbon, Total Suspended Solids, Vanadium, and Zinc. The permit writer's review of the historical data base derived from the discharge of the Phase A FGD By-Product Facility leachate collection system (leachate monitoring location LM2) revealed elevated concentrations of Boron, Chloride, Calcium, Magnesium, Total Dissolved Solids, Specific Conductance, and Sulfate. Therefore, the writer proposes that these parameters in addition to pH and Flow continue to be monitored at leachate monitoring locations LM2, LM3, LM4, and LM6, which monitor the Phase A FGD By-Product leachate collection system, the Phase A FGD By-Product leachate detection system, the Phase A By-Product North Leachate Storage Impoundment leachate detection system, and the Phase A By-Product South Leachate Storage Impoundment leachate detection system, respectively. In addition, Ammonia Nitrogen monitoring is proposed (see rationale for Section A.014). As the discharges from the Phase A FGD By-Product leachate collection system, the Phase A FGD By-Product leachate detection system,

the Phase A By-Product North Leachate Storage Impoundment leachate detection system, and the Phase A FGD By-Product South Leachate Storage Impoundment leachate detection system are routed to the Phase A By-Product North and South Leachate Storage Impoundments, it is the writer's judgment that it is more appropriate to monitor the entire list of parameters currently being monitored as required by existing Permit No. WV0110256 at leachate monitoring location LM8 which monitors the combined discharge from the Phase A FGD By-Product North and South Leachate Storage Impoundments.

Leachate monitoring location LM9 monitors the discharge from leachate collection system of the closed Phase A Ash Disposal Facility. A historical data base has been established for this monitoring location for the following parameters: pH, Alkalinity, Antimony, Arsenic, Aluminum, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Copper, Chromium, Hardness, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Nitrate plus Nitrite Nitrogen, Selenium, Silver, Specific Conductance, Sulfate, Thallium, Titanium, Total Dissolved Solids, Total Organic Carbon, Total Suspended Solids, Vanadium, and Zinc. Because the Phase A Ash Disposal Facility has been closed since 1990, future concentrations of these constituents should be similar to those observed historically. Section 5.5.b.3.A specifies constituents to be monitored unless waived by the permit writer. The writer proposes that the following constituents be waived because they are being monitored at Outlet 012 which receives flow from monitoring location LM9: pH, Antimony, Arsenic, Aluminum, Boron, Cadmium, Chloride, Copper, Chromium, Hardness, Iron, Lead, Manganese, Nickel, Nitrate plus Nitrite Nitrogen, Selenium, Silver, Sulfate, Total Dissolved Solids, and Total Suspended Solids. In addition, the writer proposes that Mercury monitoring be discontinued as Mercury monitoring is proposed at Outlet 012. Furthermore, the writer proposes that monitoring of the following constituents be waived because they have been non-detectable or present in very low concentrations during the period January 2007 through February 2012: Barium, Beryllium, Thallium, and Titanium. Furthermore, it is the permit writer's judgment that the following parameters need not be monitored as a historical data base has been assembled for them: Molybdenum, Specific Conductance, Zinc, Calcium, Total Organic Carbon, Vanadium, and Magnesium. Continued monitoring of Flow, pH, and Chloride is proposed.

Existing Permit No. WV0110256 requires the monitoring of LM5 and LM7 which monitor the spring under drains of the South Phase A FGD By-Product Surface Impoundment and the North Phase A FGD By-Product Surface Impoundment, respectively. The writer proposes that the monitoring of leachate monitoring locations LM5 and LM7 be dis-continued as semi-annual analyses of these spring under drains have not revealed impaction. It should be noted that monitoring of the leachate detection systems (leachate monitoring locations LM4 and LM6) of both impoundments will serve to determine the integrity of the liner system of the impoundments.

MONITORING WELL REPORTS

SECTIONS A.MW5, A.MW6R, A.MW7, A.MW8, A.MW10, A.MW12R, A.MW13, A.MW14, A.MW22, A.MWFGDW2, A.MWFGDW3, A.MWFGDW4, A.MWFGDW5, A.MWFGDW6

The existing groundwater monitoring network consists of wells MW5, MW6R, MW7, MW8, MW10, MW12R, MW13, MW14, MW22, MWFGDW2, MWFGDW3, MWFGDW4, MWFGDW5, and MWFGDW6 with wells MWFGDW2 and MW22 serving as background wells.

Continued semi-annual monitoring of this network as required by existing Permit No. WV0110256 for the following parameters is proposed, as follows: pH, Specific Conductance, Temperature, Total Dissolved Solids, Total Suspended Solids, Aluminum, Ammonia Nitrogen, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chloride, Copper, Chromium, Iron, Lead, Manganese, Mercury, Nickel, Nitrate plus Nitrite Nitrogen, Nickel, Selenium, Sulfate, and Thallium. Following is rationale for monitoring these parameters:

Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chloride, Copper, Chromium, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Sulfate, Thallium - Detectable concentrations of these parameters are frequently present in coal combustion by-products leachate.

Ammonia Nitrogen, Nitrate Nitrogen, Nitrite Nitrogen – Selective catalytic reactors are utilized at the Mt. Storm Power Station to reduce nitrogen oxide levels in air emissions. This process involves introducing Ammonia in the presence of a catalyst (Vanadium) into the flue gas upstream of the scrubbing units. As such, residual amounts of Ammonia Nitrogen, Nitrate Nitrogen, Nitrite Nitrogen, and Vanadium are anticipated to be present in coal combustion by-products generated at the Station.

pH, Temperature, Specific Conductance – General groundwater monitoring parameters. As specified in Condition C.2.c of the permit, stabilized concentrations of these parameters obtained during well sampling assure groundwater samples are representative of the aquifer.

Total Suspended Solids – To ensure monitoring wells have been properly developed.

Chloride – Elevated Chloride concentrations have been observed in Phase A FGD By-Product Disposal Facility leachate.

Total Dissolved Solids - TDS is an excellent indicator of the impact of ash disposal as it measures, among other constituents, dissolved metals and sulfates.

Chromium – Although existing Permit No. WV0110256 requires dissolved Chromium monitoring, Total Chromium monitoring is instead proposed as Chromium's groundwater standard referenced in Title 47, Series 12 is expressed in Total Metals.

Chapter 22, Article 12, Section 5(e) of the West Virginia Code requires that existing groundwater quality be maintained and protected when the existing groundwater quality is better than the groundwater standards of purity and quality referenced in Title 47, Series 12.

By letter dated February 29, 2012, and May 31, 2012, the permittee provided existing groundwater quality standards developed by utilizing this agency's July 1996 guidance document entitled "Guidance for Establishing Groundwater Quality Protection Standards and Evaluating Compliance." The permit writer's review of said standards (listed below) found them to be acceptable.

Standards of Purity and Quality (mg/l)

	MW-5	MW6R	MW-7	MW-8	MW10	MW12R	MW13	MW14	FGD W3	FGD W4	FGD W5	FGD W6
Arsenic	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
Barium	1.195	1.195	1.195	1.195	1.195	1.195	1.195	1.195	1.195	1.195	1.195	1.195
Beryllium	.0017	.002	.0017	.0018	.001	.0019	.001	.0014	.0017	.0017	.0018	.0017
Cadmium	.0019	.0026	.0019	.0022	.0015	.0023	.0015	.0025	.0019	.0019	.0015	.0019
Copper	.043	.005	.043	.018	.005	.06	.005	.005	.005	.043	.043	.043
Lead	.005	.006	.005	.005	.005	.005	.005	.006	.008	.005	.005	.005
Mercury	.0017	.002	.0017	.0018	.0018	.0019	.0018	.002	.0017	.0017	.0017	.0017
Nitrate plus Nitrite Nitrogen	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
Selenium	.011	.01	.011	.01	.01	.01	.01	.01	.011	.011	.011	.011
Thallium	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002

B. SCHEDULE OF COMPLIANCE – Monitoring of locations which are in place and operational is scheduled to commence on the effective date of permit, one month from its issuance date, while monitoring of locations not yet in place is scheduled to commence concurrent with their construction, specifically, Outlets 016, 017, and 026. It is the writer's judgment that the proposed compliance date referenced in Condition C.47 is achievable.

C. OTHER REQUIREMENTS - RATIONALE

1. Since disposal of other types of waste materials could require an additional leachability analysis, and subsequently the possible monitoring of additional parameters by the network of groundwater monitoring wells at the site, and due to the possible incompatability of other waste materials with the waste materials specified in Application No. WV0110256 dated December 19, 1990, Application No. WV0110256 dated July 26, 1999, and letters dated September 29, 2000, and February 29, 2012, it is proposed that only disposal of waste material specified and described in the above applications and letters be allowed. Furthermore, the writer proposes that Toxicity Characteristic Leaching Procedure (TCLP) analyses be submitted for metal cleanings surface impoundment sludge, materials dredged from the North Branch Power Station sedimentation ponds, Phase A FGD By-Product Wastewater Treatment Plant waste materials and materials derived from the former Buffalo Coal Company Surface Impoundments 1 and 2 prior to their disposal. Although it is anticipated that these materials are non-hazardous, as an assurance, submission of TCLP analyses is proposed.

2.a. Semi-annual groundwater monitoring reports are required by Section 4.11.b.3. of the SWMR. Note that Title 47, Series 12 requires dissolved metals analyses for all metals except Chromium. One hundred twenty days must transpire between sampling events to allow for the seasonal variability of groundwater.

2.b. Water levels may be used to evaluate groundwater flow direction(s).

2.c. Stagnant water removal is necessary to ensure representative groundwater samples are obtained.

2.d. The establishment of background water quality is required by Section 4.11.a.4. of the SWMR.

2.e. Statistical analyses of groundwater is required by Sections 4.11.a.6. and 4.11.a.7. of the SWMR. Section 4.11.a.6. requires that a statistical determination be made each time the permittee assesses groundwater quality.

2.f. Section 4.11.a.3. of the SWMR requires that the direction and rate of groundwater flow be determined annually.

3. This condition is proposed to meet the reporting requirements of Sections 4.12.c., 4.12.d, 4.12.e, and 4.12.g. of the SWMR. Furthermore, the writer proposes that the annual report include leachability analyses derived from the previous year's TCLP conducted upon coal combustion by-products generated at the Mt. Storm Power Station and the North Branch Power Station.

4. As the digestion procedure for the performance of total recoverable metals is not sufficient utilizing colorimetric analytical methods, it is the policy of this agency that colorimetric analytical methods should not be utilized to determine total recoverable metals concentrations.

5. In accordance with the Director of the Division of Water and Waste Management's directive dated February 18, 2004, all permits are to be monitored for Total Phosphorus and Total Nitrogen concentrations in order to analyze the impacts of nutrients upon water quality and to determine whether there is a need to establish nutrient water quality standards. As there is no EPA approved method to directly test for Total Nitrogen, monitoring of the Total Nitrogen constituents Total Kjeldahl Nitrogen, Nitrate Nitrogen, and Nitrite Nitrogen is proposed.

6.,7. Surface Impoundment No. 25 currently receives stormwater runoff from only the closed Phase A Ash Disposal Facility.

However, as the closed Phase A Ash Disposal Facility will be disturbed during the anticipated 2013 construction of the cells of the overlying Phase A FGD By-Product Disposal Facility which could result in the generation of leachate from the closed Phase A Ash Disposal Facility, the existing permit requires that Outlet 025 be monitored monthly for an extensive list of parameters frequently

associated with coal ash leachate with monitoring to commence with the disturbance of the ash resulting from the construction of each of cells 2, 3, 4, 5, and continue until two feet of soil materials have been placed on each of cells 2, 3, 4, and 5. Concurrent with the monthly monitoring of ash related parameters, the writer proposes that pH, Flow, Total Suspended Solids, and Chloride monitoring frequency be increased to monthly.

8. This condition is proposed per Section 6.1.f. of the SWMR which prohibits the use of the disposal facility for agricultural purposes or the establishment or the construction of any building, unless approved by permit modification.

9. This proposed condition is in accordance with Sections 6.3.b and 6.3.c of the SWMR which require that post closure care of closed landfills continue for a period of up to thirty years after final closure.

10. This condition is proposed to ensure that all information other than the monitoring reports required by Condition C.3.a is forwarded to the appropriate Department of Environmental Protection offices.

11. This condition is proposed in accordance with Sections 4.5.f.3.B. and 4.5.f.3.C. of the SWMR which specifies vegetative cover requirements.

12. Section 3.2 of the SWMR references location standards for landfill facilities which may be waived by the agency if the permittee provides sufficient justification for the waiver of the standard(s). As the permittee's letter dated February 23, 1994 provided sufficient documentation for a waiver, by letter dated March 17, 1994, the Director granted waivers of Sections 3.2.a.1, 3.2.b, 3.2.c, 3.2.d, 3.2.e, 3.2.i, 3.2.k, and 3.2.l.

Sections 5.5.a.1 and 5.5.a.2. of the SWMR allow for the waiver of various sub-sections of Sections 3 and 4 of the SWMR during the permit issuance process provided that sufficient documentation is provided to justify the waiver(s). As the permittee's letter dated March 17, 1994 provided sufficient justification for the waiver of Sections 3.7.j, 3.7.m, 3.8.c.1.C.4, 3.8.i.1.B, 3.10.a.2, 3.10.a.4, 3.10.b.3, 3.10.a.6, 3.10.c.1, 3.13, 3.10.c.1, 4.4, 4.5.c.5, 4.5.g.7, 4.5.g.8, 4.5.g.9, 4.5.g.10, 4.6.b.1.B, 4.6.b.1.C, 4.6.b.2.A, 4.6.b.2.B, 4.8.c.3.A, 4.12.a, 4.12.b, and 4.12.g.1.B, said sections were waived during the issuance process for Permit No. WV0110256 issued July 29, 1994. These sections continued to be waived in the 2001 and 2006 re-issuances of Permit No. WV0110256. Continued waivers of these sections is warranted, and is therefore proposed.

The permittee has requested that Section 4.12.g of the SWMR, which requires the submission of an annual operational report before January 31 of the following year, be modified to relax the submission date to March 31 of the following year in order to allow sufficient time for the generation of drawings showing the extent of the disposal area based on an end of the year survey. The writer concurs that a modification of Section 4.12.g. is warranted.

13. Section 4.5.b.3.A.6. of the SWMR requires that sediment control structures be cleaned out when the sediment accumulation reaches 60% of design capacity.

14. Section 6.1.f.3 of the SWMR prohibits the excavation of the final cover or of any waste materials unless otherwise approved. As the permittee has proposed measures which will be utilized to minimize the effect of excavating the waste materials, specifically, 1) minimizing the area to be excavated, 2) maintaining the slope of the excavated area, 3) maintaining benching within the excavated area, 4) replacing, regrading and revegetating areas where final soil cover was removed, and 5) placement of erosion and sedimentation control structures, the writer concurs that waste materials may be excavated.

15. Permit Application No. WV0110256 dated January 28, 2011 references that the permittee anticipates that additional disposal cells will be constructed within the Phase A FGD By-Product Disposal Facility during the term of the forthcoming permit. Therefore, this proposed condition requires that the permittee provide design drawings signed by a registered professional engineer depicting the location and design of each of the disposal cells to be constructed commencing with Cell 2. Each cell shall be designed to meet the liner system requirements specified in Sections 4.5.d.2, 4.5.d.3, 4.5.d.4, 4.5.d.5, and 4.5.d.6 of the SWMR.

16. This condition is proposed to confirm that each cell of the Phase A FGD By-Product Disposal Facility was constructed in accordance with the design referenced in the information submitted as required by Condition C.15. The submission of a certificate of construction for the components of the liner system is required by Section 4.5.d.7 of the SWMR.

17. This condition specifies the procedure to be employed should a groundwater standard referenced in Sections A.MW5, A.MW6R, A.MW7, A.MW8, A. MW-10, A.MW-12R, A.MW-13, A.MW-14, A.MWFGD-W3, A.MWFGD-W4, A.MWFGD-W5, and A.MW FGD-W6 be exceeded. Should a groundwater standard be exceeded, the writer proposes that the well(s) which have exceeded a groundwater standard be re-sampled as it is the permit writer's judgment that one concentration in excess of a groundwater standard is not sufficient to conclude groundwater has been impacted. It should be noted that the re-sampling procedure is similar to the re-sampling procedure referenced in the SWMR for statistical analyses.

18. This condition specifies that monitoring of the parameters referenced in the rationale for Section A.014 of this Fact Sheet commence at Outlet 014 with the routing of surface water runoff from the active Phase B Disposal Area working face to Surface Impoundment Number 14.

19. This condition specifies that the effluent monitoring and limitations for Outlets 016, 017, and 026 shall become effective with the placement into service of Surface Impoundment Numbers 016, 017, and 026, respectively.

20. The flocculating chemical that is currently being utilized at Borrow Area Surface Impoundment No.13 and will be likely be

utilized at proposed Surface Impoundment No. 26, Chemstream Everfloc 200W, contains Aluminum compounds. Therefore, the writer proposes that following treatment with flocculants that grab samples of the discharge from the impoundments be obtained immediately after the discharge commences and subsequently be analyzed for pH and Aluminum concentrations.

21,22. In accordance with the requirements of Section 4.8.a.3. of the SWMR, the writer proposes that the permittee verify that hat the respective leachate collection lines, leachate detection lines, and the underdrain lines of the Phase A FGD By-Product Facility, the Phase A FGD By-Product North Leachate Storage Impoundment (leachate detection lines, underdrain lines), the Phase A FGD By-Product South Leachate Storage Impoundment (leachate detection lines, underdrain lines), Surface Impoundment No. 15 (leachate detection lines), proposed Surface Impoundment Numbers 16 and 17 (leachate detection lines, underdrain pipes (if equipped)) , and the closed Phase A Ash Disposal Site (leachate collection pipes) are free of blockages.

23, 24. The writer proposes that existing Borrow Area Surface Impoundment No. 13 be abandoned within sixty days of the placement into service of Borrow Area Surface Impoundment No. 26 in accordance with the abandonment requirements of Section 4.5.b.3.B of the SWMR. Establishment of a vegetative cover upon the borrow area which drains to Surface Impoundment No. 13 is proposed prior to its abandonment in accordance with the vegetative cover requirements referenced in Condition C.11 of this Fact Sheet.

25. Leachate generated at the Phase A FGD By-Product Disposal Facility is directed to the Phase A FGD By-Product North and South Leachate Storage Impoundments located at the toe of the Phase A valley from where it is directed to FGD scrubber units located at the Mt. Storm Power Station for use as make-up water. Because circumstances occur at the Mount Storm Power Station which prevent the routing of leachate to the scrubber units, this agency's Permit No. WV0005525 dated April 14, 2008 provides for the routing of the leachate from the Phase A FGD By-Product Facility's North and Leachate Storage Impoundments to the low volume waste ponds servicing the Mount Storm Power Station. Said permit requires monthly monitoring of the discharge from the low volume waste ponds to Mt. Storm Lake, which is required when leachate is routed to them. During the period of active disposal in the Phase A FGD By-Product Disposal Facility, elevated Chloride concentrations were observed (9/96 – 29115 mg/l, 6/97 – 23853 mg/l, 12/97 – 28480 mg/l) in the leachate collection system (leachate monitoring location LM8) of the Phase A FGD By-Product Disposal Facility. As concentrations of this magnitude could be detrimental to the water quality of Mt. Storm Lake, the writer proposes that the permittee shall route effluent from the Phase A FGD By-Product North and South Leachate Storage Impoundments to the FGD Scrubber Units except when the units are not operating (e.g. when the absorber vessel is being cleaned out or scrubber sludges are being dewatered), when current or impending weather conditions make discharging the wastewater necessary, when a pump failure occurs, or when the units are not generating (and thus the scrubbers not operating). This condition serves to minimize the amount of leachate generated at the Phase A FGD By-Product Facility that is discharged to Mount Storm Lake.

26. By letter dated March 6, 2006, the permittee requested approval to dispose at the Phase B Disposal Facility materials derived from the clean out of Buffalo Coal Company Surface Impoundment Numbers 1 and 2 and rock and soil materials derived from the portion of the Buffalo Coal Company haulroad located upon property owned by VEPCO. Because of the financial condition of Buffalo Coal Company at that time, VEPCO took the initiative to maintain the surface impoundments as they are located upon their property as well as maintaining the portion of the haulroad located upon property owned by VEPCO. The Division of Mining and Reclamation of the Department of Environmental Protection is currently maintaining the former Buffalo impoundments. It is the permit writer's judgment that continued disposal of the above materials is justified.

27. The writer proposes that either analytical Methods 1631 or 245.7 of 40 CFR Part 136 be utilized to determine the concentration of Total Mercury at Outlets 012, 014, 015, 016, 017, 025, 027, and 028 as they are the most precise analytical methods available.

28, 29. These conditions are proposed in accordance with this agency's Multi-Sector General Water Pollution Control Permit No. WV0111457 issued April 1, 2009 which specifies stormwater sampling requirements. Said permit contains a provision (low concentration waiver) which allows for the discontinuance of monitoring of an indicator parameter when the average concentration over the last four consecutive concentrations of the indicator parameter is less than its benchmark value referenced in Permit No. WV0111457. Therefore, monitoring of the indicator parameters pH, Total Suspended Solids, Nitrate Nitrogen plus Nitrite Nitrogen, Iron, Chloride, and Phosphorus at Outlets 022 and 024 may be discontinued if this provision is met. As required by Permit No. WV0111457, in lieu of monitoring, the permittee is required to submit an annual certification form that specifies the parameters that meet the low concentration waiver and that also certifies that there has not been a significant change in the industrial activity or the pollution prevention measures in the area of the facility that drains to Outlets 022 and 024. The permittee is to review its stormwater pollution prevention practices each year and revise the practices as well as the Stormwater Pollution Prevention Plan and Groundwater Protection Plan and continue monitoring if the concentration for any indicator parameter was greater than its corresponding benchmark concentration.

As referenced in the Federal Register dated September 29, 1995, the United States Environmental Protection Agency has established benchmark concentrations for various pollutants contained within stormwater runoff. Benchmark concentrations are the pollutant concentrations above which the EPA has determined represent a level of concern. The level of concern is a concentration at which a stormwater discharge may potentially impair, or contribute to impairing, water quality or affect human health from ingestion of water or fish. The benchmark concentrations are also viewed by the Division of Water and Waste Management as a level, that if below, represents little potential for water quality concern. Therefore, the benchmark concentrations provide an appropriate level to determine whether a facility's stormwater pollution prevention measures are successfully implemented and, as such, represent a target concentration for a facility to achieve through the implementation of pollution prevention measures. The Division of Water and Waste

Management has, with few exceptions, adopted the EPA's benchmark concentrations which are referenced in the Division's Multi-Sector General Water Pollution Control Permit No. WV0111457 issued April 1, 2009.

30, 31. These conditions are proposed to specify requirements concerning laboratory method detection limits and the reporting of

laboratory analyses.

32. This condition is proposed to specify the acute toxicity testing procedure required by Sections A.012, A.014, A.015, A.016, and A.017.

33. The permittee anticipates that Borrow Area Surface Impoundment No. 26 will be constructed during the term of the re-issued permit to replace existing Borrow Area Surface Impoundment No. 13. Therefore, this proposed condition requires that the permittee provide design drawings signed by a registered professional engineer depicting the location and design of the impoundment which shall meet the sizing requirements specified in Sections 4.5.b.3 of the SWMR. Concurrently, a Quality Assurance/Quality Control Plan-Construction Quality Assurance Plan is to be submitted as required by Section 3.7.g of the SWMR.

34. To avoid confusion, the writer proposes that surface impoundments/sedimentation ponds having outlet numbers be re-designated to match the outlet number. Also, the writer proposes that Phase A FGD By-Product Leachate Storage Impoundment No. 1 be re-designated the Phase A FGD By-Product North Leachate Storage Impoundment while Phase A FGD By-Product Surface Impoundment No. 2 shall be re-designated the Phase A FGD By-Product South Leachate Storage Impoundment, the unnamed surface impoundment located at the toe of the Phase A Ash Disposal Facility that discharges through Outlet No. 025 shall be re-designated Surface Impoundment No. 025, Phase A Sedimentation Pond No. 2 shall be re-designated Phase A Surface Impoundment No. 16, Phase A Sedimentation Pond No. 1 shall be re-designated Phase A Surface Impoundment No. 17, Borrow Area Surface Impoundment No. 13-R shall be re-designated Surface Impoundment No. 26, and Phase B Surface Impoundment No. 3 shall be re-designated Surface Impoundment No. 14.

35, 36. The Phase A FGD By-Product Facility North Leachate Storage Impoundment has been taken out of service due to a leak in its liner system. Since that time, the Phase A FGD By-Product South Leachate Storage Impoundment has served to collect leachate generated by the Phase A FGD By-Product Disposal Facility as waste materials have not been placed in the Facility since 1996. However, the startup of disposal operations (anticipated 2013) will require the addition of the Phase A FGD By-Product North Leachate Storage Impoundment. Therefore, the writer proposes that the permittee provide for the agency's review and approval, a plan detailing activities to be undertaken to retrofit the Phase A FGD By-Product North Leachate Storage Impoundment with a composite liner system. To assure that the retrofitting is conducted as proposed in the plan, the writer proposes that the permittee provide within six months of the completion of retrofitting activities, a certificate of construction and a quality assurance/quality control report documenting that the retrofitting of each component of the impoundment's liner system was conducted in accordance with the plan submitted as required by Condition C.35.

37. With the anticipated 2013 or 2014 startup of the placement of waste materials in the Phase A FGD By-Product Disposal Facility, the permittee anticipates that Chloride concentrations will require chemical treatment prior to being routed to the scrubber units at the Mount Storm Power Station. Therefore, the writer proposes that the permittee provide design drawings of the proposed treatment system in addition to a detailed description of the treatment system.

38. Due to the short laboratory holding time of Hexavalent Chromium, the writer proposes that Permit No. WV0110256 allow for the analysis of Total Chromium rather than Hexavalent Chromium at Outlets 012, 014, 015, 016, 017, 025, 027, and 028 provided that Total Chromium concentrations do not exceed .011 mg/l, the chronic criteria for Hexavalent Chromium referenced in Title 47, Series 2. However, should Total Chromium concentrations exceed .011 mg/l, Hexavalent Chromium monitoring shall be required.

39. As referenced in Sections A.016 and A.017 of this Fact Sheet, after Surface Impoundment No. 12 is removed from service, Surface Impoundments 016 and 017 will also receive leachate from ash that is disturbed during the construction of cells within the FGD By-Product Disposal Facility as well as leachate from the leachate collection system of the closed Phase A Ash Disposal Facility. Therefore, as a liner system will be required, the writer proposes that that the permittee provide design drawings signed by a registered professional engineer depicting the location and design of the impoundments which shall meet the sizing and liner system requirements specified in Sections 4.5.b., 4.5.d.3, 4.5.d.4, 4.5.d.5, and 4.5.d.6 of the SWMR. Concurrently, a Quality Assurance/Quality Control Plan-Construction Quality Assurance Plan is to be submitted as required by Section 3.7.g of the SWMR.

40. This condition is proposed to confirm that Phase A Surface Impoundment Numbers 16 and 17 were constructed as proposed in the information submitted as required by Condition C.39. The submission of a certificate of construction for the components of the liner system is required by Section 4.5.d.7 of the SWMR.

41. Following the retrofitting of its liner system, the Phase A FGD By-Product North Leachate Storage Impoundment will receive leachate from the Phase A FGD By-Product Disposal Facility. Therefore, following the retrofitting, the writer proposes that leachate monitoring location LM8 samples shall consist of equal volumes taken from the Phase A FGD By-Product North Leachate Storage Impoundment and the Phase A FGD By-Product South Surface Impoundment in order to obtain a representative leachate sample. Prior to the retrofitting of the North Surface Impoundment, samples for LM8 shall be obtained from the Phase A FGD By-Product South Surface Impoundment

42. Permit application letter dated February 29, 2012 referenced that a detailed study concerning the dissolution of salt cake to be placed within the Phase A FGD By-Product Disposal Facility is to be completed during 2012. Therefore, the writer proposes that the permittee provide said study.

43. Permit Application information letter dated February 29, 2012 references that Phase A FGD By-Product Disposal Cell No. 1 will be refurbished based upon the results of a field investigation. Therefore, the writer proposes that in addition to providing design details

regarding the refurbishment of Cell No. 1, that the permittee provide a narrative detailing measures to be effected to refurbish Cell No. 1.

44. Because the system that the agency utilizes to generate permits will accept only round numbers for the minimum pH permit limitation, this condition specifies that the minimum pH limitation is 6.0 Standard Units, consistent with Title 47, Series 2.

45. The condition is proposed to specify that quarterly samples shall be taken each calendar quarter.

46. The condition is proposed to specify that the sample frequency shall be defined as a minimum of one sample taken every six months, beginning with the effective date of the permit.

47. As Sections A.012 and A.015 allow two years for the permittee to come into compliance with effluent limitations for certain parameters, to assure that the permittee is proceeding in that regard, the writer proposes that the permittee provide a proposal within one year of the effective date of the permit for meeting said limitations. The writer proposes that the proposal include, at a minimum, chemical treatment and constructed wetlands treatment systems.

48. West Virginia Corridor H Highway construction will result in the removal of Surface Impoundment, anticipated during 2012. Therefore, the writer proposes that within one month of its removal that the permittee notify the agency.

Dominion

Memorandum

FILE: Possum Point/COR 14/Permits

DATE: October 1, 2001

To: **Jimmy Wallace**
Company: Dominion Generation
Location: Possum Point Power Station

From: **Bob Williams**
Company: Dominion Resources Services, Inc.
Department: Environmental Policy & Compliance
Location: Innsbrook 1 SE

POSSUM POINT VPDES PERMIT NO. VA0002071

The Virginia Department of Environmental Quality has renewed the subject permit effective September 13, 2001. The permit is attached. It was transmitted to us in two letters. The September 13 letter provides the actual permit minus the Discharge Monitoring Report (DMR) pages. The September 17 letter provides the DMR pages.

To the recipients of this memorandum, please review the requirements of the new permit and distribute copies to anyone on your respective staffs who may need a copy. EP&C will place an electronic copy of the permit on the environmental intranet website.

A meeting has been scheduled at Possum Point for Friday, October 5 to review the permit on a page by page basis to ensure that all appropriate parties are aware of the permit conditions. Jimmy Wallace, Keith Homza, Ken Roller, Dan Moyers, Glenn Bishop, and I are scheduled to attend this meeting. Everyone is welcome to attend.

Thanks to everyone who participated in the permit renewal process. This was an excellent team effort. I can be reached at x2994 if any questions arise.

Bob Williams *Bob*

Cc: Harry Miller
Dean Lee
Joe Rose
Keith Homza-attachments
Carl Simon-attachments
Jud White
Dan Moyers-attachments
Ken Roller-attachments
Bill Bolin-attachments
Glenn Bishop-attachments
Nat Wooding-attachments
Dave Yaworsky
Joyce Livingstone-attachments
Ellen Brown-attachments

Rec'd 10/1/01 TLJW

J. White
cc: J. Wallace

Received SEP 2 1 2001 EP&C

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III
Governor

John Paul Woodley, Jr.
Secretary of Natural Resources

Northern Virginia Regional Office
13901 Crown Court
Woodbridge, VA 22193-1453
(703) 583-3800 *fax* (703) 583-3801
http://www.deq.state.va.us

Dennis H. Treacy
Director

Gregory L. Clayton
Regional Director

September 13, 2001

Dominion
Attn: Martin L Bowling, Jr.,
Vice President Operations, Fossil and Hydro
5000 Dominion Boulevard
Richmond, VA 23060

MLB 9/20/01

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re: Reissuance VPDES Permit No. VA0002071
Virginia Power – Possum Point Facility, Dumfries - Prince William County

Dear Mr. Bowling:

The Department of Environmental Quality (DEQ) has approved the enclosed effluent limitations and monitoring requirements for the above-referenced permit. A copy of your permit and the Discharge Monitoring Report (DMR) form is included. Please make additional copies of the DMR for future use. Please make additional copies of the DMR for future use. The first DMR for the month of September is due by October 10, 2001. Please send DMRs to:

Virginia Department of Environmental Quality
Northern Virginia Regional Office
13901 Crown Court
Woodbridge, VA 22193-1453

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first)within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternately, any owner under §§ 62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in §1.23(b) of the Board's Procedural Rule No. 1. In case involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

If you have questions about the permit, please contact Jeffrey S. Talbott at (703)583-3902, or by E-mail at jstalbott@deq.state.va.us.

Sincerely,

Charles D. Forbes
Assistant Division Director
Permitting & Water Resource Development

Enc.: Permit No. VA0002071

cc: DEQ-Water, OWPP
EPA-Region III, 3WP12
Department of Health, Culpeper
Water Compliance, NVRO
Water Resources Development, NVRO

Rec'd 10/1/01 RW

J. Whik – Please distribute
cc: J. Wallace

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III
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Northern Virginia Regional Office
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(703) 583-3800 *fax* (703) 583-3801
http://www.deq.state.va.us

Dennis H. Treacy
Director

Gregory L. Clayton
Regional Director

September 17, 2001

9/25/01

Dominion
Attn: Martin L Bowling, Jr.,
Vice President Operations, Fossil and Hydro
5000 Dominion Boulevard
Richmond, VA 23060

Re: Reissuance VPDES Permit No. VA0002071
Virginia Power – Possum Point Facility, Dumfries - Prince William County

Dear Mr. Bowling:

Enclosed you will find the Discharge Monitoring Report (DMR) forms which were not included in your recently signed permit. Due to this fact the first new DMR for this facility will not be due until November 10, 2001 for the month of October. I am sorry for the oversight and hope this does not cause any problems.

There also were mistakes on page two and three of the permit. I have enclosed new pages and please insert them into your copy of the new permit. The errors on both pages were that Chlorine was list as total residual when it should have been free available.

If you have any questions about the permit, please contact me at (703)583-3902, or by E-mail at jstalbott@deq.state.va.us.

Sincerely,

Jeff S. Talbott
Environmental Specialist

Enc.: Pages 2 and 3 of Permit No. VA0002071
DMRs for all outfalls (001/ 002, 003, 004, 005, 201, 202, 501, 502, 503)

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No.: VA0002071
Effective Date: September 13, 2001
Expiration Date: September 13, 2006

AUTHORIZATION TO DISCHARGE UNDER THE
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in this permit.

Owner: Virginia Electric and Power Company
Facility Name: Possum Point Power Station
City: Dumfries
County: Prince William
Facility Location: 19000 Possum Point Road

The owner is authorized to discharge to the following receiving stream:

Stream: Quantico Creek and Quantico Creek, UT
River Basin: Potomac River
River Subbasin: Potomac River
Section: 06
Class: II
Special Standards: b

The authorized discharge shall be in accordance with this cover page, Part I - Effluent Limitations and Monitoring Requirements and Part II - Conditions Applicable To All VPDES Permits, as set forth herein.

for Director, Department of Environmental Quality

September 13, 2001
Date

A.1. Outfall 001/ 002 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 001 / 002, from the Seal Basin. The waste streams from outfalls 001 / 002 are combined in the Seal Basin. Therefore, the discharge quality from the two outfalls is considered to be identical, but other waste streams enter outfall 002, thus the samples must be procured from 002's discharge pipe. The reporting may be recorded on one Discharge Monitoring Report (DMR), designated as Outfall 001 /002. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	1/M	Grab
Chlorine, Total Residual[2]	N/A	N/A	N/A	0.2 mg/l	2/M	Grab
Chlorine, Total Residual[2][3]	0.022 mg/l	N/A	N/A	0.032 mg/l	2/M	Grab
Dissolved Mercury	NL	N/A	N/A	NL	1/3 M	Grab
Heat Rejection (Units 1 & 2)[6]	N/A	N/A	N/A	1.5×10^9 BTU/Hour	Continuous	Calculated
Heat Rejection (Units 3)[6]	N/A	N/A	N/A	5.58×10^8 BTU/Hour	Continuous	Calculated
Acute Toxicity – *C. dubia* (TU_a) [4]	N/A	N/A	N/A	NL	1/Y [5]	Grab
Chronic Toxicity – *P. promelas* (TU_c) [4]	N/A	N/A	N/A	NL	1/Y [5]	Grab

MGD = Million gallons per day.
N/A = Not applicable.
S.U. = Standard Units.
NL = No limit; monitor and report.

2/M = Twice every month.
1/M = Once every month.
1/D = Once every Day
1/Y = Once every year.
1/3 M = Once every quarter.

[1] = The design flow is 164 MGD.
[2] = While Chlorinating. Please see Part I.B.1, Additions requirements
[3] = This limit is effective one year after the effective date of the permit. Please see Part I.C.1.c for compliance schedule.
[4] = Please see Part I.D., Toxic Management Program.
[5] = Toxic Monitoring frequency will change to twice a year (2/Y) when Unit 6 becomes operational. See Toxic Management Program Part I.D.2.b.
[6] = Heat Rejection is measured at the respective Condenser Units, prior to discharge to the Seal Basin.

Estimate: Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.2. Outfall 201 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 201 (Cooling Tower Blowdown – Unit 5), the effluent from the final treatment process. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/D - M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	1/D - W	Grab
Chlorine, Free Available[2]	N/A	0.2 mg/l	N/A	0.5 mg/l	1/D – W	Grab
Total Chromium	0.2 mg/l	N/A	N/A	0.2 mg/l	1/D - M	Grab
Total Zinc	1.0 mg/l	N/A	N/A	1.0 mg/l	1/D – M	Grab
126 Priority Pollutants [3] (Appendix A of 40 CFR 423)	Non-detectable	N/A	N/A	Non-detectable	1/D – Y	Grab

[1] = The design flow is 5.0 MGD.
[2] = While chlorinating the Unit 5 cooling tower.
[3] = Please see Part I.E.8., for exclusion from sampling

MGD = Million gallons per day.
N/A = Not applicable.
NL = No limit; monitor and report.
S.U. = Standard units.

1/D – M = Once per Month in which there is a discharge.
1/D - W = Once per week in which there is a discharge.
1/D - Y = Once per year in which there is a discharge.

Estimate: Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.

Grab: An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.3. Outfall 202 - Effluent Limitations and Monitoring Requirements

a. During the period beginning the start of operation of New Unit 6 and lasting until the permit expiration date, the permittee is authorized to discharge from Outfall Number 202 (Cooling Tower Blowdown – Unit 6), the effluent from the final treatment process. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/D - M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	1/D - W	Grab
Chlorine, Free Available[2]	N/A	0.2 mg/l	N/A	0.5 mg/l	1/D – W	Grab
Total Chromium	0.2 mg/l	N/A	N/A	0.2 mg/l	1/D - M	Grab
Total Zinc	1.0 mg/l	N/A	N/A	1.0 mg/l	1/D – M	Grab
126 Priority Pollutants [3] (Appendix A of 40 CFR 423)	Non-detectable	N/A	N/A	Non-detectable	1/D – Y	Grab

[1] = The design flow is 1.3 MGD.
[2] = While chlorinating the Unit 6 cooling tower.
[3] = Please see Part I.E.8., for exclusion from sampling

MGD = Million gallons per day.
S.U. = Standard units.
NL = No limit; monitor and report.
N/A = Not applicable.

1/D - M = Once per Month in which there is a discharge.
1/D - W = Once per week in which there is a discharge.
1/D – Y = Once per year in which there is a discharge.

Estimate: Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.

Grab: An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.4. Outfall 003 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 003 (Cooling Water - Unit 4). Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	1/M	Grab
Chlorine, Total Residual[2]	N/A	N/A	N/A	0.2 mg/l	2/M	Grab
Chlorine, Total Residual[2][3]	0.022 mg/l	N/A	N/A	0.032 mg/l	2/M	Grab
Dissolved Mercury	NL	N/A	N/A	NL	1/3 M	Grab
Heat Rejection (Units 4)[5]	N/A	N/A	N/A	1.14×10^9 BTU/Hour	Continuous	Calculated
Acute Toxicity – *C. dubia* (TU_a) [4]	N/A	N/A	N/A	NL	1/Y	24H-C
Chronic Toxicity – *P. promelas* (TU_c) [4]	N/A	N/A	N/A	NL	1/Y	24H-C

MGD = Million gallons per day.
S.U. = Standard Units
N/A = Not applicable.
NL = No limit; monitor and report.

1/M = Twice every Month.
1/D = Once every Day
1/M = Once every month.
1/Y = Once every year.
1/3 M = Once every quarter.

[1] = The design flow is 142.5 MGD.
[2] = While Chlorinating the Unit 4 condenser. Please see Part I.B.1, Additional Requirements.
[3] = This limit is effective one year after the effective date of the permit. Please see Part I.C.1.c for compliance schedule.
[4] = Please see Part I.D., Toxic Management Program.
[5] = Heat Rejection is measured at the respective Condenser Units, prior to discharge to the Seal Basin.

Estimate :Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.

24H-C :The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period. Samples consisting of less than one sample per hour may, on a case-by-case basis, be considered to meet the definition of a 24-hour composite if approved by the DEQ-NVRO.

Grab :An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.5. Outfall 004 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 004 (Low Volume Waste Settling Basin). Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)[1]	NL	N/A	N/A	NL	2/M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	2/M	Grab
Oil and Grease	15 mg/l	N/A	N/A	20 mg/l	2/M	Grab
Total Suspended Solids[4]	30 mg/l	N/A	N/A	50 mg/l	2/M	Grab
Acute Toxicity – *P. promelas* (TU_a) [2]	N/A	N/A	N/A	NL	1/Y [3]	24H-C
Chronic Toxicity – *P. promelas* (TU_c) [2]	N/A	N/A	N/A	NL	1/Y [3]	24H-C

[1] = The design flow is 2.0 MGD.
[2] = Please see Part I.D., Toxic Management Program.

MGD = Million gallons per day.
N/A = Not applicable.
NL = No limit; monitor and report.
S.U Standard units.

2/M = Twice every month.
1/M = Once every month.
1/Y = Once every year
1/3 M = Once every Quarter

[3] = Toxic Monitoring frequency will change to twice a year (2/Y) when Unit 6 becomes operational. See Part I.D.2.b.

[4] = The daily maximum limitation of 50 mg/l for Total Suspended Solids does not apply to any untreated overflow from this facility operated to treat the volume of coal pile runoff which is associated with a 10 year, 24 hour rainfall event rainfall event. During such events, the daily maximum limitation of 100 mg/l is enforced. See Special Condition Part I.E.11.

Estimate :Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.

24H-C :The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period. Samples consisting of less than one sample per hour may, on a case-by-case basis, be considered to meet the definition of a 24-hour composite if approved by the DEQ-NVRO

Grab :An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.6. Outfall 005 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 005 (Ash Pond E), the effluent from the final treatment process, unless otherwise specified. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	2/M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	2/M	Grab
Oil and Grease	15 mg/l	N/A	N/A	20 mg/l	2/M	Grab
Total Suspended Solids	30 mg/l	N/A	N/A	50 mg/l	2/M	Grab
Selenium, Total	NL	N/A	N/A	NL	1/3 M	Grab
Selenium, Total [3]	0.015 mg/l	N/A	N/A	0.015 mg/l	1/M	Grab
Acute Toxicity – *C. dubia* (TU_a) [2]	N/A	N/A	N/A	NL	1/Y	Grab
Chronic Toxicity – *C. dubia* (TU_c) [2]	N/A	N/A	N/A	NL	1/Y	Grab

[1] = The design flow is 5.0 MGD.
[2] = Please see Part I.D., Toxic Management Program.

MGD = Million gallons per day.
N/A = Not applicable.
NL = No limit; monitor and report.
S.U = Standard units.

2/M = Twice every month.
1/M = Once every month.
1/Y = Once every year
1/3 M = Once every Quarter

[3] = This limit is effective four years after the effective date of the permit. Please see Part I.C.1.a for compliance schedule.

Estimate :Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab :An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.7. Outfall 501 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permits effective date and lasting until the permits expiration date, the permittee is authorized to discharge from Outfall Number 501 (Metals Finishing Pond), the effluent from the final treatment process, unless otherwise specified. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/D - M	Estimate
Oil and Grease	15 mg/l	N/A	N/A	20 mg/l	1/D - M	Grab
Total Suspended Solids	30 mg/l	N/A	N/A	100 mg/l	1/D - M	Grab
Total Iron	1.0 mg/l	N/A	N/A	1.0 mg/l	1/D - M	Grab
Total Copper	1.0 mg/l	N/A	N/A	1.0 mg/l	1/D - M	Grab

1/D – M = Once per Month in which there is a discharge
MGD = Million gallons per day.
N/A = Not applicable.
NL = No limit; monitor and report.
S.U. = Standard Units.

[1] = The design flow is 3.3 MGD.

Estimate :Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab :An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.8. Outfall 502 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permits effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 502 (Oily Waste Pond). Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	2M	Estimate
Total Petroleum Hydrocarbons (TPH)	NL	N/A	N/A	N/A	2M	Grab
Total Petroleum Hydrocarbons (TPH) [2]	30 mg/l	N/A	N/A	N/A	2M	Grab

2/M = Twice every month. *MGD* = Million gallons per day. *NL* = No limit; monitor and report.
1/M = Once every month. *N/A* = Not applicable.

[1] = The design flow is 0.567 MGD.
[2] = This limit is effective four years after the effective date of the permit. Please see Part I.C.1.a for compliance schedule.

Estimate :Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab :An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.9. Outfall 503 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permits effective date and lasting one year, the permittee is authorized to discharge from Outfall Number 503 (A & A Environmental discharge into oily waste pond). Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/M	Estimate
Oil and Grease	NL	N/A	N/A	NL	1/M	Grab
Total Petroleum Hydrocarbons (TPH)	NL	N/A	N/A	NL	1/M	Grab
Benzene	NL	N/A	N/A	NL	1/M	Grab
Ethylbenzene	NL	N/A	N/A	NL	1/M	Grab
Toluene	NL	N/A	N/A	NL	1/M	Grab
Total Xylenes	NL	N/A	N/A	NL	1/M	Grab
Total Suspended Solids	NL	N/A	N/A	NL	1/M	Grab
pH	N/A	N/A	NL	NL	1/M	Grab
Total Antimony	NL	N/A	N/A	NL	1/M	Grab
Total Arsenic	NL	N/A	N/A	NL	1/M	Grab
Total Barium	NL	N/A	N/A	NL	1/M	Grab
Total Cadmium	NL	N/A	N/A	NL	1/M	Grab
Total Chromium	NL	N/A	N/A	NL	1/M	Grab
Total Cobalt	NL	N/A	N/A	NL	1/M	Grab
Total Copper	NL	N/A	N/A	NL	1/M	Grab
Total Lead	NL	N/A	N/A	NL	1/M	Grab
Total Mercury	NL	N/A	N/A	NL	1/M	Grab
Total Molybdenum	NL	N/A	N/A	NL	1/M	Grab
Total Tin	NL	N/A	N/A	NL	1/M	Grab
Total Titanium	NL	N/A	N/A	NL	1/M	Grab
Total Zinc	NL	N/A	N/A	NL	1/M	Grab
Bis(2-ethlyhexyl) Phthalate	NL	N/A	N/A	NL	1/M	Grab
Butylbenzyl phthalate	NL	N/A	N/A	NL	1/M	Grab
Carbazole	NL	N/A	N/A	NL	1/M	Grab
n-Decane	NL	N/A	N/A	NL	1/M	Grab
Fluoranthene	NL	N/A	N/A	NL	1/M	Grab
n-Octadecane	NL	N/A	N/A	NL	1/M	Grab

1/M = Once every month. *MGD* = Million gallons per day. *NL* = No limit; monitor and report.
N/A = Not applicable. *S.U.* = Standard Unit

[1] = The design flow is 0.567 MGD.

Estimate :Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab :An individual sample collected over a period of time not to exceed 15-minutes.

A.9. Outfall 503 - Effluent Limitations and Monitoring Requirements

b. During the period beginning one year from permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 503 (A & A Environmental discharge into oily waste pond). Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/M	Estimate
Oil and Grease	38.0 mg/l	N/A	N/A	127.0 mg/l	1/M	Grab
Total Petroleum Hydrocarbons (TPH)	38.0 mg/l	N/A	N/A	127.0 mg/l	1/M	Grab
Benzene	NL	N/A	N/A	NL	1/M	Grab
Ethylbenzene	NL	N/A	N/A	NL	1/M	Grab
Toluene	NL	N/A	N/A	NL	1/M	Grab
Total Xylenes	NL	N/A	N/A	NL	1/M	Grab
Total Suspended Solids	30.6 mg/l	N/A	N/A	74.1 mg/l	1/M	Grab
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	1/M	Grab
Total Antimony	0.141 mg/l	N/A	N/A	0.237 mg/l	1/M	Grab
Total Arsenic	1.33 mg/l	N/A	N/A	2.950 mg/l	1/M	Grab
Total Barium	0.281 mg/	N/A	N/A	0.427 mg/l	1/M	Grab
Total Cadmium	0.0102 mg/l	N/A	N/A	0.0172 mg/l	1/M	Grab
Total Chromium	0.323 mg/l	N/A	N/A	0.746 mg/l	1/M	Grab
Total Cobalt	18.8 mg/l	N/A	N/A	56.4 mg/l	1/M	Grab
Total Copper	0.242 mg/l	N/A	N/A	0.500 mg/l	1/M	Grab
Total Lead	0.160 mg/l	N/A	N/A	0.350 mg/l	1/M	Grab
Total Mercury	0.00647 mg/l	N/A	N/A	0.0172 mg/l	1/M	Grab
Total Molybdenum	2.09 mg/l	N/A	N/A	3.50 mg/l	1/M	Grab
Total Tin	0.165 mg/l	N/A	N/A	0.335 mg/l	1/M	Grab
Total Titanium	0.0299 mg/l	N/A	N/A	0.051 mg/l	1/M	Grab
Total Zinc	4.5 mg/l	N/A	N/A	8.26 mg/l	1/M	Grab
Bis(2-ethlyhexyl) Phthalate	0.101 mg/l	N/A	N/A	0.215 mg/l	1/M	Grab
Butylbenzyl phthalate	0.0887 mg/l	N/A	N/A	0.188 mg/l	1/M	Grab
Carbazole	0.276 mg/l	N/A	N/A	0.598 mg/l	1/M	Grab
n-Decane	0.437 mg/l	N/A	N/A	0.948 mg/l	1/M	Grab
Fluoranthene	0.0268 mg/l	N/A	N/A	0.0537 mg/l	1/M	Grab
n-Octadecane	0.302 mg/l	N/A	N/A	0.589 mg/l	1/M	Grab

1/M = Once every month. *MGD* = Million gallons per day. *NL* = No limit; monitor and report.
N/A = Not applicable. *S.U.* = Standard Unit

[1] = The design flow is 0.567 MGD.

Estimate :Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab :An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.10. Groundwater Monitoring Requirements

a. During the period beginning permit's effective date and lasting until the permits expiration date, the permittee is authorized to manage pollutants at Ash Pond D and Ash Pond E. The groundwater shall be limited and monitored at the observation well by the permittee as specified below for the following observation wells:

Observation Wells					
Ash Pond D	Stratum D	ED-1, ED-3, ED-9R, ED-15, ED-24, ED-32	Ash Pond E	Stratum D	ES-1, ES-3a, ES-4

PARAMETER	GROUNDWATER MONITORING		MONITORING REQUIREMENTS	
	Limitations	Units	Frequency	Sample Type
Static Water Level (mean sea level)	NL	Feet	Quarterly	Measurement
pH	NL	Standard Units	Quarterly	Grab
Specific Conductivity	NL	Umhos/cm	Quarterly	Grab
Hardness	NL	as $CaCO_3$, mg/l	Quarterly	Grab
Chlorides	NL	mg/l	Quarterly	Grab
Fluoride	NL	mg/l	Quarterly	Grab
Sodium	NL	mg/l	Quarterly	Grab
Potassium	NL	mg/l	Quarterly	Grab
Sulfate	NL	mg/l	Quarterly	Grab
Total Organic Carbon (COD)	NL	mg/l	Quarterly	Grab
Temperature	NL	°C	Quarterly	Grab
Dissolved Arsenic	NL	mg/l	Quarterly	Grab
Dissolved Barium	NL	mg/l	Quarterly	Grab
Dissolved Cadmium	NL	mg/l	Quarterly	Grab
Dissolved Copper	NL	mg/l	Quarterly	Grab
Dissolved Iron	NL	mg/l	Quarterly	Grab
Dissolved Mercury	NL	mg/l	Quarterly	Grab
Dissolved Lead	NL	mg/l	Quarterly	Grab
Dissolved Nickel	NL	mg/l	Quarterly	Grab
Dissolved Manganese	NL	mg/l	Quarterly	Grab
Dissolved Selenium	NL	mg/l	Quarterly	Grab
Dissolved Silver	NL	mg/l	Quarterly	Grab
Dissolved Vanadium	NL	mg/l	Quarterly	Grab
Dissolved Zinc	NL	mg/l	Quarterly	Grab
Phenol	NL	mg/l	Quarterly	Grab

NL = No Limit: monitor and report
Grab = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

A.10. Groundwater Monitoring Requirements

b. During the period beginning permit's effective date and lasting until the permits expiration date, the permittee is authorized to manage pollutants at Ash Pond D and Ash Pond E. The groundwater shall be limited and monitored at the observation well by the permittee as specified below for the following observation wells:

		Observation Wells
Ash Pond D and E	Stratum B	ED-4, ED-5, ED-17
	Stratum E	ED-31
	Stratum F	ED-26, ED-33

PARAMETER	GROUNDWATER MONITORING		MONITORING REQUIREMENTS	
	Limitations	Units	Frequency	Sample Type
Static Water Level (mean sea level)	NL	Feet	Annually	Measurement
pH	NL	Standard Units	Annually	Grab
Specific Conductivity	NL	Umhos/cm	Annually	Grab
Hardness	NL	as $CaCO_3$, mg/l	Annually	Grab
Chlorides	NL	mg/l	Annually	Grab
Fluoride	NL	mg/l	Annually	Grab
Sodium	NL	mg/l	Annually	Grab
Potassium	NL	mg/l	Annually	Grab
Sulfate	NL	mg/l	Annually	Grab
Total Organic Carbon	NL	mg/l	Annually	Grab
Temperature	NL	°C	Annually	Grab
Dissolved Arsenic	NL	mg/l	Annually	Grab
Dissolved Barium	NL	mg/l	Annually	Grab
Dissolved Cadmium	NL	mg/l	Annually	Grab
Dissolved Copper	NL	mg/l	Annually	Grab
Dissolved Iron	NL	mg/l	Annually	Grab
Dissolved Mercury	NL	mg/l	Annually	Grab
Dissolved Lead	NL	mg/l	Annually	Grab
Dissolved Nickel	NL	mg/l	Annually	Grab
Dissolved Manganese	NL	mg/l	Annually	Grab
Dissolved Selenium	NL	mg/l	Annually	Grab
Dissolved Silver	NL	mg/l	Annually	Grab
Dissolved Vanadium	NL	mg/l	Annually	Grab
Dissolved Zinc	NL	mg/l	Annually	Grab
Phenol	NL	mg/l	Annually	Grab

NL = No Limit: monitor and report
Grab = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

A.10. Groundwater Monitoring Requirements

c. During the period beginning one year from permit's effective date and lasting until the permits expiration date, the permittee is authorized to manage pollutants at the Oily Waste Basin. The permittee shall monitor ground water at wells specified in the approved Ground Water Monitoring Plan. The groundwater shall be limited and monitored at the observation well by the permittee as specified below:

PARAMETER	GROUNDWATER MONITORING		MONITORING REQUIREMENTS	
	Limitations	Units	Frequency	Sample Type
Static Water Level (mean sea level)	NL	Feet	Quarterly	Measurement
pH	NL	Standard Units	Quarterly	Grab
Specific Conductivity	NL	Umhos/cm	Quarterly	Grab
Hardness	NL	as $CaCO_3$, mg/l	Quarterly	Grab
Chlorides	NL	mg/l	Quarterly	Grab
Fluoride	NL	mg/l	Quarterly	Grab
Sodium	NL	mg/l	Quarterly	Grab
Potassium	NL	mg/l	Quarterly	Grab
Sulfate	NL	mg/l	Quarterly	Grab
Total Organic Carbon (COD)	NL	mg/l	Quarterly	Grab
Temperature	NL	°C	Quarterly	Grab
Dissolved Arsenic	NL	mg/l	Biannually	Grab
Dissolved Barium	NL	mg/l	Biannually	Grab
Dissolved Cadmium	NL	mg/l	Biannually	Grab
Dissolved Copper	NL	mg/l	Biannually	Grab
Dissolved Iron	NL	mg/l	Biannually	Grab
Dissolved Mercury	NL	mg/l	Biannually	Grab
Dissolved Lead	NL	mg/l	Biannually	Grab
Dissolved Nickel	NL	mg/l	Biannually	Grab
Dissolved Manganese	NL	mg/l	Biannually	Grab
Dissolved Selenium	NL	mg/l	Biannually	Grab
Dissolved Silver	NL	mg/l	Biannually	Grab
Dissolved Vanadium	NL	mg/l	Biannually	Grab
Dissolved Zinc	NL	mg/l	Biannually	Grab
Total Petroleum Hydrocarbons (TPH)	NL	mg/l	Quarterly	Grab
Benzene	NL	mg/l	Quarterly	Grab
Ethylbenzene	NL	mg/l	Quarterly	Grab
Toluene	NL	mg/l	Quarterly	Grab
Total Xylenes	NL	mg/l	Quarterly	Grab
Phenol	NL	mg/l	Quarterly	Grab

NL = No Limit: monitor and report
Grab = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

d. Samples shall be taken at the specified location in compliance with the monitoring requirements specified above and in Part. I.F.

B. Additional Effluent Limitations, Monitoring Requirements, and Instructions

1. Additional Total Residual Chlorine (TRC) Limitations and Monitoring Requirements

   a. Neither free available nor total residual chlorine (TRC) may be discharged from Units 1, 2, 3 and 4 for more than two hours per day, unless the permittee demonstrates to the Department of Environmental Quality (DEQ) that discharge for more than two hours is required for macroinvertebrate control.

   b. Simultaneous multi-unit chlorination is permitted.

2. Quantification Levels

   a. The maximum quantification levels (QLs) shall be as follows:

Characteristic	Quantification Level
Chlorine	0.1 mg/L
Cadmium	0.8 μg/L
Chromium	11.0 μg/L
Copper	7.2 μg/L
Lead	16.0 μg/L
Mercury	1.0 μg/L
Nickel	13.0 μg/L
Selenium	5.0 μg/L
Silver	0.2 μg/L
Zinc	52 μg/L

   b. The permittee may use any approved method which has a QL equal to or lower than the QL listed in B.2.a. above. Except as specified in B.2.d. below, the QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method.

   c. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained.

   d. An appropriate analytical method for metals shall be selected from the following list of EPA methods, or any approved method in 40 CFR Part 136, which will achieve a QL that is less than or equal to the QL specified in B.2.a. above.

Metal	Analytical Methods
Antimony	204.1; 200.7; 204.2; 1639; 1638; 200.8
Arsenic	200.7; 200.9; 200.8; 1632
Barium	208.1; 200.7; 208.2; 200.8
Cadmium	213.1; 200.7; 213.2; 200.9; 200.8; 1638; 1639; 1637; 1640
Chromium	218.1; 200.7; 218.2; 218.3; 200.9; 1639; 200.8
Chromium VI	218.4; 1636
Copper	220.1; 200.7; 220.2; 200.9; 1638; 1640; 200.8
Iron	236.1; 200.7; 236.2
Lead	239.1; 200.7; 239.2; 200.9; 200.8; 1638; 1637; 1640
Manganese	243.1; 200.7; 200.9; 243.2; 200.8

Metal	Analytical Methods
Mercury	200.7; 245.1; 200.8; 1631
Nickel	249.1; 200.7; 249.2; 1639; 200.9; 1638; 200.8; 1640
Selenium	200.7; 270.2; 200.8; 1638; 1639; 200.9
Silver	272.1; 200.7; 200.9; 272.2; 1638; 200.8
Zinc	289.1; 200.7; 1638; 1639; 200.8; 289.2

3. Compliance Reporting Under Part I.A.

a. *Monthly Average* – Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.B.2. above shall be determined as follows: All data below the test method QL shall be treated as zero. All data equal to or above the QL shall be treated as it is reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, for the month. This arithmetic average shall be reported on the DMR. If all data are less than the QL, a "<[QL]" shall be reported on the DMR, otherwise the average shall be reported as calculated.

b. *Daily Maximum* -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed above in Part I.B.2. shall be determined as follows: All data below the QL listed in a. above shall be treated as zero. All data equal to or above the QL shall be treated as reported. An arithmetic average of the values shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If the daily maximum is less than the QL, then "<[QL]" shall be reported on the DMR.

C. Schedule of Compliance

1.

a. The permittee shall achieve compliance with the final Selenium limit for Outfall 005 (specified in Part I.A.6) and Total Petroleum Hydrocarbon (TPH) limit for Outfall 502 (specified in Part I.A.8.) of this permit in accordance with the following schedule:

a. Select engineering firm for design of facilities or submit proposed plan to achieve compliance with the final Selenium and TPH limits.	Within 180 days after the effective date of the permit
b. Report of progress on attainment of final Selenium and TPH limits.	The progress reports will be due annually, with the first report is due one year after the effective date.
c. Achieve compliance with final Selenium and TPH limits.	Within four years from the effective date of the permit.

b. The permittee shall achieve compliance with the final limits for the CWT discharge limitation for Outfall 503 as specified in Part I.A.9. of this permit in accordance with the following schedule:

a. Select engineering firm for design of facilities or submit proposed plan to achieve compliance with the final limits specified in Part I.A.9.	Within 90 days after the effective date of the permit.
b. Report of progress on attainment of final limits.	The progress report is due 180 days after the effective date.
c. Achieve compliance with final limits.	Within one year from the effective date of the permit.

c. The permittee shall achieve compliance with the final limits for the Chlorine, Total Residual (TRC) discharge limitations for Outfall 001 /002 (specified in Part I.A.1) and 003 (specified in Part I.A.4.) of this permit in accordance with the following schedule:

a. Select engineering firm for design of facilities or submit proposed plan to achieve compliance with the final TRC limits.	Within 90 days after the effective date of the permit.
b. Report of progress on attainment of final TRC limits	The Progress report is due 180 days after the effective date.
c. Achieve compliance with final TRC limits.	Within one year from the effective date of the permit.

2. All progress reports will be submitted in writing to the Department Environmental Quality, the Northern Regional Office (DEQ-NVRO), by the due dates specified above. If the progress reports are not received by the dates specified, the permittee would be considered in noncompliance and remedial actions taken.

D. Toxic Management Program

1. Biological Monitoring

a. In accordance with the schedule in Part I.D.2. below, the permittee shall conduct annual acute and chronic toxicity tests for the duration of the permit. The permittee shall collect 24-hour flow proportioned composite samples of final effluent from Outfall 003 and 004, and grab samples from Outfall 001/ 002 and 005 during the sampling periods specified. Outfall 001/ 002 will be collected in the 002 outfall pipe below any internal waste stream entering it. Any retest of a non-acceptable test must be performed during the same time period. Effluent samples shall not be dechlorinated prior to use in toxicity test.

1) **Outfalls 001 /002 and 003:** The permittee shall conduct acute toxicity test on these outfalls using *Ceriodaphnia dubia* and chronic toxicity tests using *Pimephales promelas*.

2) **Outfalls 004:** The permittee shall conduct acute and chronic toxicity test on this outfall using *Pimephales promelas*.

3) **Outfall 005:** The permittee shall conduct acute and chronic toxicity tests on this outfall using *Ceriodaphnia dubia*.

4) The acute multi-dilution No Observed Adverse Effect Concentration (NOAEC) tests to use are:
   Ceriodaphnia dubia: 48-Hour Static tests; and
   Pimephales promelas: 48-Hour Static tests.
   These acute tests are to conducted using five (5) geometic dilutions of effluent with a minimum of four (4) replicates, with five (5) organisms in each. The NOAEC, as determined by hypotheses testing shall be converted to Acute Toxicity Units (TU_a), where TU_a = 100/NOAEC, and reported on the DMR. The LC_{50} shall also be determined and noted on the submitted report. Tests in which control survival is less than 90% are not acceptable.

5) The chronic tests to use are:
   Ceriodaphnia dubia: Chronic 3-Brood Static Renewal Survival and Reproduction Test, and
   Pimephales promelas: Chronic 7-Day Static Renewal Survival and Growth Test.
   These chronic tests shall be conducted in such a manner and at sufficient dilutions (i.e., minimum of five (5) dilutions, geometrically derived) to determine the No Observed Effect Concentration (NOEC) for survival and reproduction or growth. For Outfall 001 /002, 003, and 005 the chronic test dilutions shall be able to determine compliance with a chronic NOEC endpoint of 35% equivalent to a Chronic Toxic Unit (TU_c) of 2.85. For Outfall 004 the chronic test dilutions shall be able to determine compliance with a chronic NOEC endpoint of 17% equivalent to a Chronic Toxic Unit (TU_c) of 5.88. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable and a retest will have to be performed. Express the test NOEC as Chronic Toxic Units (TU_c) for DMR reporting where TU_c = 100/NOEC. Report the LC_{50} at 48 hours and the IC_{25} with the NOEC's in the test report.

6) The permittee may provided additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR Part 136.3.

b. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of 1.a. above may be discontinued.

c. Use of test methods, protocols, and alternative species other than specified in Part I.D.1. above shall be approved by DEQ-NVRO prior to initiation of testing.

2. Reporting Schedule

a. Before Unit 6 becomes operational the permittee shall report the results on the DMR, and supply 2 copies of the toxicity test reports specified in this Toxics Management Program in accordance with the following schedule:

Period	***Sampling Period***	***DMR/Report Submission Date***
Annual 1	October 1, 2001 – January 31,2002	March 10, 2002
Annual 2	June 1, 2002 – September 30, 2002	November 10, 2002
Annual 3	March 1, 2003 – June 30, 2003	August 10, 2003
Annual 4	January 1, 2004 – April 30, 2004	June 10, 2004
Annual 5	February 1, 2005 – March 31, 2005	May 10, 2005

b. After Unit 6 becomes operational the permittee shall report the results on the DMR, and supply 2 copies of the toxicity test reports specified in this Toxics Management Program for Outfall 001 / 002 and 004 in accordance with the following schedule:

Period	***Sampling Period***	***DMR/Report Submission Date***
First Semiannual	Within 6 months following Unit 6 becoming operational.	7th month following Unit 6 becoming operational.
Second Semiannual	Within 12 months following Unit 6 becoming operational.	13th month following Unit 6 becoming operational.
Third Semiannual	Within eighteen months following Unit 6 becoming operational.	19th month following Unit 6 becoming operational.
Fourth Semiannual	Within 24 months following Unit 6 becoming operational.	25th month following Unit 6 becoming operational.
First Annual	Within 30 months following Unit 6 becoming operational.	31st month following Unit 6 becoming operational.
Second Annual	Within 42 months following Unit 6 becoming operational.	43rd month following Unit 6 becoming operational.

3. Additional Special Conditions for TMP monitoring.

The permittee may demonstrate that the composition of the discharges at outfalls 003 and 004 are similar using the definition of 24-hour composite as described in Part I.A. and the below definition of 24-hour composite. Upon approval by DEQ-NVRO the below definition may be used for the collection of composite sample.

> The composite sample shall be a combination of individual samples, minimum of four samples, taken proportional to flow over a 24-hour period. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period.

E. Other Requirements

1. Operation and Maintenance Manual Requirement
The permittee will maintain an operation and maintenance manual for the treatment system permitted. This manual will address, as a minimum, treatment system design, treatment system operation, maintenance, and record keeping. Any changes in the practices and procedures followed by the permittee shall be documented and submitted for staff approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit.

2. EPA Industrial Reopener
This permit shall be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation or prohibition for a pollutant which is promulgated or approved under Section 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
   a. Is more stringent than any effluent limitation on the pollutant already in the permit; or
   b. Controls any pollutant not limited in the permit.

3. Materials Handling/Storage
Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in

such a manner so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

4. Chemical Additives
The permittee shall notify DEQ-NVRO, in writing at least thirty (30) days prior to the use of chemical additives in the non-contact cooling water. The written notice shall contain the following:
   a. Names of the proposed chemical additives to be used and corresponding copies of their Material Safety Data Sheets (MSDS).
   b. Proposed schedule of chemical additive use; and
   c. Description of any proposed wastewater treatment and/or retention to be provided during the use of chemical additives.

   Should the use of chemical additives significantly alter the characteristics of the non-contact cooling water discharge or if the use of chemical additives becomes persistent or continuous, this permit may be modified or alternatively, revoked and reissued to include appropriate limitations or conditions.

5. Polychlorinated Biphenyl
There shall be no discharge of Polychlorinated Biphenyl (PCBs) compounds from this source in amounts equal to or greater than detectable by EPA test methods specified in 40 CFR Part 136, Guidelines for Establishing Test Procedures for the Analysis of Pollutants.

6. Water Quality Criteria Reopener
Should effluent monitoring indicate the need for any water quality-based limitations, this permit may be modified or alternatively revoked and reissued to incorporate appropriate limitations.

7. Water Quality Criteria Monitoring
The permittee shall monitor the effluent at Outfall 005for the substances noted in Attachment A of the permit according to the indicated analysis number, quantification level, sample type and frequency. Monitoring shall be preformed annually and the first sample shall be collected one year from the permit's effective date. Using Attachment A as the reporting form, the data shall be submit annually by September 10th. Monitoring and analysis shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved method. Alternative EPA approved methods other than those specified in Appendix A may be used with prior notification to and approval from DEQ-NVRO. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

8. 126 Priority Pollutants for Outfalls 201 and 202
Any and all 126 priority pollutants listed in Appendix A to 40 CFR 423, contained in the chemicals added for cooling tower maintenance, shall be non-detectable in the blowdown discharge water. Sampling these pollutants (except total chromium and total zinc) from the discharge point shall be conducted annually when there is a discharge.

   This monitoring requirement may be waived if the permittee submits engineering calculations which demonstrate that the regulated pollutants are not detectable in the final discharge by the analytical methods in 40 CFR Part 136.

   The permittee shall notify DEQ-NVRO of any process change in the cooling tower, which may affect the quality of the associated discharge water.

9. In-stream Monitoring
Monitoring of the thermal mixing zone shall take place twice a year during the months of July and February. The monitoring results shall be presented as a temperature plot with 3 degree centigrade insotherms and will be taken as near to full plant operating conditions as reasonably possible. The results of the July monitoring shall be submitted on or before October 31 of each year. The results of the February monitoring shall be submitted on or before May 31 of each year.

The permittee shall comply with the State Water Quality Criteria outside of the approved mixing zone. For the purposes of this permit, the approved mixing zone is defined as the part of Quantico Creek from the established border between the Commonwealth of Virginia and the State of Maryland, upstream approximately 5.2 kilometers (based on centerline measurement; bounded vertically by the extreme high water mark and the bottom of the creek, including all tidal marshlands, tidal mud flats, coves, inlets, and embayment within the defined area). A map showing the approved mixing zone is incorporated into this permit as Attachment B.

10. Debris Collection
All debris shall be collected on the intake trash racks, and will not be returned to the waterway.

11. Outfall 004
Any untreated overflow from facilities designed constructed, and operated to treat the volume of coal pile runoff which is associated with a 10 year, 24 hour rainfall event shall not be subject to the limitations in 40 CFR 423.12(b)(9). During such events, the daily maximum limitation of 50 mg/l for Total Suspended Solids on Outfall 004 is suspended, and the daily maximum limitation of 100 mg/l, set forth in 40 CFR 423.12 (b)(3) for low volume waste source, is enforced.

F. Groundwater Special Conditions

1. Groundwater Monitoring Requirements
   a. As identified in Part I.A.10.a. and Part I.A.10.b. of this permit, groundwater monitoring is required from observation wells adjacent to Ash Pond D & E as stated in the Groundwater Monitoring Plan approved by DEQ-NVRO.
   b. Changes to the Groundwater Monitoring Plan may occur with the approval from DEQ-NVRO.
   c. Metals samples shall be filtered in the field.

2. Additional Requirements
   a. The permittee shall summit an updated Groundwater Monitoring Plan within 180 days of the effective date of the permit, to DEQ-NVRO to address the groundwater concerns for the oily waste pond.
   b. The permittee shall begin sampling the parameters identified and frequency in Part I.A.10.c. of this permit, within 90 days of the approved Groundwater Monitoring Plan.

3. Groundwater Reporting
   a. The Groundwater Annual Report will include the annual and all quarterly sampling results for that year.
   b. The Groundwater Annual Report shall include a review of the groundwater quality on the basis of background quality, Water Quality Standards, and statistical deviation thereof, as applicable with the Anti-degradation Policy for Groundwater.
   c. The additional requirement stated in Part I.F.2. (Oily Waste Pond) shall be included in the annual report and if it is determined that the groundwater is impaired then a Site Characterization Report will be required as stated in Part I.F.4.b.
   d. This annual report shall be submitted to DEQ-NVRO by April 30th of each year.

4. Site Characterization Report
   a. Ash Pond D and Ash Pond E
      1. The permittee shall submit a Site Characterization Report to DEQ-NVRO concerning the groundwater contamination around Ash Pond D and Ash Pond E.
      2. The permittee shall submit the report no later than three years from effective date of the permit.
      3. The report shall include, at a minimum, an assessment of the following:
         i. The spatial extent and severity of the contamination depicted by isoconcentration maps.
         ii. The cause of the contamination.
         iii. Identify both human health and environmental receptors
         iv. Assess risk to each receptor.
         v. Analysis of remediation alternatives.
   b. Oily Waste Pond
      1. Should the ground water monitoring data shows contamination around the oil waste pond than a Site Characterization Report shall be submitted to DEQ-NVRO.
      2. The permittee shall submit the report no later than three years from the above date.
      3. The report shall include all the same as stated in Part I.F.4.a.3.

5. Corrective Action Plan
   a. Following a review and approval of Site Characterization Report, a Corrective Action Plan may be required by DEQ-NVRO. This Corrective Action Plan will be due within 180 days upon notification by DEQ-NVRO.
   b. The permittee shall put into practice the corrective action plan within 180 days after it has been approved by DEQ-NVRO.

G. Storm Water Management

1. General Storm Water Pollution Prevention Plan Requirements

The previous permit required a storm water pollution prevention plan. Any necessary revisions to storm water pollution prevention plans shall be prepared in accordance with good engineering practices. The plan shall identify potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the plan shall describe and ensure the implementation of practices that are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. Permittees must implement the provisions of the storm water pollution prevention plan as a condition of this permit.

The storm water pollution prevention plan requirements of this permit may be fulfilled by incorporating by reference other plans or documents such as an erosion and sediment control plan, a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act or best management practices (BMP) programs otherwise required for the facility provided that the incorporated plan meets or exceeds the plan requirements of Part I.G.1.d.. If an erosion and sediment control plan is being incorporated by reference, it shall have been approved by the locality in which the activity is to occur or by another appropriate plan approving authority authorized under the Virginia Erosion and Sediment Control Regulation 4 VAC 50-30-10 et seq. All plans incorporated by reference into the storm water pollution prevention plan become enforceable under this permit.

a. **Deadlines for Plan Preparation and Compliance.**

1) The storm water pollution prevention plan which was previously prepared and implemented shall be complied with, and continually updated as needed in accordance with the following Part I.G.1. sections.

b. **Signature and Plan Review.**

1) *Signature/Location.* The plan shall be signed in accordance with Part II, K., and be retained onsite at the facility that generates the storm water discharge in accordance with Part II, B.2. For inactive facilities, the plan may be kept at the nearest office of the permittee.

2) *Availability.* The permittee shall make the storm water pollution prevention plan, annual site compliance inspection report, or other information available to DEQ-NVRO upon request.

3) *Required Modifications.* The Director, or authorized representative, may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this permit. Such notification shall identify those provisions of the permit that are not being met by the plan, and identify which provisions of the plan requires modifications in order to meet the minimum requirements of this permit. Within 60-days of such notification from the Director, (or as otherwise provided by the Director), or authorized representative, the permittee shall make the required changes to the plan and shall submit to the Director a written certification that the requested changes have been made.

c. **Keeping Plans Current.**

The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance, that has a significant effect on the potential for the discharge of pollutants to surface waters or if the storm water pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under Part I.G.1.d. of this permit, those pollutants identified in Part I.G.4., or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. New owners shall review the existing plan and make appropriate changes. Amendments to the plan may be reviewed by the DEQ-NVRO in the same manner as Part I.G.1.b.

d. **Contents of the Plan.**

The contents of the pollution prevention plan shall comply with the requirements listed below and those in Part I.G.3. and 4. These requirements are cumulative. The plan shall include, at a minimum, the following items.

1) *Pollution Prevention Team.* The plan shall identify a specific individual or individuals within the facility organization as members of a storm water Pollution Prevention Team that are responsible for developing the storm water pollution prevention plan and assisting the facility or plant manager in its implementation, maintenance, and revision. The plan shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's storm water pollution prevention plan.

2) *Description of Potential Pollutant Sources.* The plan shall provide a description of potential sources that may reasonably be expected to add significant amounts of pollutants to storm water discharges or that may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. The plan shall

identify all activities and significant materials that may potentially be significant pollutant sources. The plan shall include, at a minimum:

a) *Drainage.* A site map indicating an outline of the portions of the drainage area of each storm water outfall that are within the facility boundaries, each existing structural control measure to reduce pollutants in storm water runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under Part I.G.1.d.2.c) have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations, vehicle and equipment maintenance and/or cleaning areas, loading/unloading areas, locations used for the treatment, storage or disposal of wastes and wastewaters, locations used for the treatment, filtration, or storage of water supplies, liquid storage tanks, processing areas, and storage areas. The map must indicate the outfall locations and the types of discharges contained in the drainage areas of the outfalls; and for each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow, and an identification of the types of pollutants that are likely to be present in storm water discharges associated with industrial activity. Factors to consider include the toxicity of chemical; quantity of chemicals used, produced or discharged; the likelihood of contact with storm water; and history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified;

b) *Inventory of Exposed Materials.* An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of 3-years prior to the date of submission of an application to be covered under this permit and the present; method and location of onsite storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff between the time of 3-years prior to the date of the submission of an application to be covered under this permit and the present; the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives;

c) *Spills and Leaks.* A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility within the 3-year period immediately prior to the date of submission of an application to be covered under this permit. Such list shall be updated as appropriate during the term of the permit;

d) *Sampling Data.* A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility, including a summary of sampling data collected during the term of this permit; and

e) *Risk Identification and Summary of Potential Pollutant Sources.* A narrative description of the potential pollutant sources from the following activities: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and onsite waste disposal practices, and wastewater treatment activities to include sludge drying, storage, application or disposal activities. The description shall

specifically list any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g., biochemical oxygen demand, total suspended solids, etc.) of concern shall be identified.

3) *Measures and Controls.* The facility covered by this permit shall develop a description of storm water management controls appropriate for the facility and implement such controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls.

   a) *Good Housekeeping.* Good housekeeping requires the clean and orderly maintenance of areas that may contribute pollutants to storm water discharges. The plan shall describe procedures performed to minimize contact of materials with storm water runoff. Particular attention should be paid to areas where raw materials are stockpiled, material handling areas, storage areas, liquid storage tanks, material handling areas, and loading/unloading areas.

      1. *Fugitive Dust Emissions.* The plan must describe measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize offsite tracking of coal dust. To prevent offsite tracking the facility may consider specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.

      2. *Delivery Vehicles.* The plan must describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee should consider the following:
         i. Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and
         ii. Develop procedures to deal with leakage or spillage from vehicles or containers, and ensure that proper protective measures are available for personnel and environment.

      3. *Fuel Oil Unloading Areas.* The plan must describe measures that prevent or minimize contamination of storm water runoff from fuel oil unloading areas. At a minimum the permittee must consider using the following measures, or an equivalent:
         i. Use containment curbs in unloading areas;
         ii. During deliveries station personnel familiar with spill prevention and response procedures must be present to ensure that any leaks or spills are immediately contained and cleaned up; and
         iii. Use spill and overflow protection (drip pans, drip diapers, and/or other containment devices shall be placed beneath fuel oil connectors to contain any spillage that may occur during deliveries or due to leaks at such connectors).

      4. *Chemical Loading/Unloading Areas.* The plan must describe measures that prevent or minimize the contamination of storm water runoff from chemical loading/unloading areas. Where practicable, chemical loading/unloading areas should be covered, and chemicals should be stored indoors. At a minimum the permittee must consider using the following measures or an equivalent:

i. Use containment curbs at chemical loading/unloading areas to contain spills; and
ii. During deliveries station personnel familiar with spill prevention and response procedures must be present to ensure that any leaks or spills are immediately contained and cleaned up.

5. *Miscellaneous Loading/Unloading Areas.* The plan must describe measures that prevent or minimizes the contamination of storm water runoff from loading and unloading areas. The plan may consider covering the loading area, minimizing storm water runon to the loading area by grading, berming, or curbing the area around the loading area to direct storm water away from the area, or locate the loading/unloading equipment and vehicles so that leaks can be contained in existing containment and flow diversion systems.

6. *Liquid Storage Tanks.* The plan must describe measures that prevent or minimize contamination of storm water runoff from above ground liquid storage tanks. At a minimum the permittee must consider employing the following measures or an equivalent:
   i. Use protective guards around tanks;
   ii. Use containment curbs;
   iii. Use spill and overflow protection (drip pans, drip diapers, and/or other containment devices shall be placed beneath chemical connectors to contain any spillage that may occur during deliveries or due to leaks at such connectors); and
   iv. Use dry cleanup methods.

7. *Large Bulk Fuel Storage Tanks.* The plan must describe measures that prevent or minimize contamination of storm water runoff from liquid storage tanks. At a minimum the permittee must consider employing the following measures, or an equivalent:
   i. Comply with applicable State and Federal laws, including Spill Prevention Control and Countermeasures (SPCC); and
   ii. Containment berms.

8. The plan must describe measures to reduce the potential for an oil spill, or a chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all above ground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

9. *Oil Bearing Equipment in Switchyards.* The plan must describe measures to reduce the potential for storm water contamination from oil bearing equipment in switchyard areas. The permittee may consider level grades and gravel surfaces to retard flows and limit the spread of spills; collection of storm water runoff in perimeter ditches.

10. *Residue Hauling Vehicles.* All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the body or container. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds must be repaired as soon as practicable.

11. *Ash Loading Areas.* Plant procedures shall be established to reduce and/or control the tracking of ash or residue from ash loading areas for example, where practicable, requirements to clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water.

12. *Areas Adjacent to Disposal Ponds or Landfills.* The plan must describe measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee must develop procedures to:
    i. Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and
    ii. Reduce ash residue on exit roads leading into and out of residue handling areas.

13. *Landfills, Scrapyards, Surface Impoundments, Open Dumps, and General Refuse Sites.* The plan must address landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

14. *Maintenance Activities.* For vehicle maintenance activities performed on the plant site, the plan must describe measures that prevent or minimize contamination of the storm water runoff from all areas used for vehicle and equipment maintenance. The permittee shall consider performing all maintenance activities indoors, using drip pans, maintaining an organized inventory of materials used in the shop, draining all parts of fluids prior to disposal, prohibiting wet clean up practices where the practices would result in the discharge of pollutants to storm water drainage systems, using dry cleanup methods, collecting the storm water runoff from the maintenance area and providing treatment or recycling, minimizing runon/runoff of storm water areas or other equivalent measures.

15. *Material Storage Areas.* The plan must describe measures that prevent or minimize contamination of storm water from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay down areas). The permittee may consider flat yard grades, runoff collection in graded swales or ditches, erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins), covering lay down areas, storing the materials indoors, covering the material with a temporary covering made of polyethylene, polyurethane, polypropylene, or hypalon. Storm water runon may be minimized by constructing an enclosure or building a berm around the area.

b) *Preventive Maintenance.* A preventive maintenance program shall involve: timely inspection and maintenance of storm water management devices (e.g., cleaning oil/water separators, catch basins); inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures which could result in discharges of pollutants to surface waters; and appropriate maintenance of such equipment and systems.

c) *Spill Prevention and Response Procedures.* Areas where potential spills that can contribute pollutants to storm water discharges can occur, and their accompanying drainage points, shall be identified clearly in the storm water pollution prevention plan. Where appropriate, specifying material handling procedures, storage

requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to personnel.

d) *Inspections.* Facility personnel who are familiar with the industrial activity, the BMPs and the storm water pollution prevention plan shall be identified to inspect designated equipment and areas of the facility. The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained.

e) *Employee Training.* Employee training programs shall inform personnel responsible for implementing activities identified in the storm water pollution prevention plan or otherwise responsible for storm water management at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. The pollution prevention plan shall identify periodic dates for such training.

f) *Recordkeeping and Internal Reporting Procedures.* A description of incidents (such as spills, or other discharges), along with other information describing the quality and quantity of storm water discharges shall be included in the plan. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.

g) *Sediment and Erosion Control.* The plan shall identify areas that, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.

h) *Management of Runoff.* The plan shall contain a narrative consideration of the appropriateness of traditional storm water management practices (practices other than those that control the generation or source(s) of pollutants) used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The plan shall provide that measures that the permittee determines to be reasonable and appropriate shall be implemented and maintained. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices; reuse of collected storm water (such as for a process or as an irrigation source); inlet controls (such as oil/water separators); snow management activities; infiltration devices and wet detention/retention devices; or other equivalent measures.

4) *Comprehensive Site Compliance Evaluation.* Personnel who are familiar with the industrial activity, the BMPs and the storm water pollution prevention plan shall conduct site compliance evaluations at appropriate intervals specified in the plan, but in no case less than once a year. Such evaluations shall include the following:

a) Areas contributing to a storm water discharge associated with industrial activity such as material storage, handling, and disposal activities shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made;

b) Based on the results of the evaluation, the description of potential pollutant sources identified in the plan in accordance with Part I.G.1.d.2) and pollution prevention measures and controls identified in the plan in accordance with Part I.G.1.d.3) shall be revised as appropriate within 2 weeks of such evaluation and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than 12 weeks after the evaluation;

c) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with Part I.G.1.d.4)b) shall be made and retained as part of the storm water pollution prevention plan for at least 3-years from the date of the evaluation. The report shall identify any incidents of noncompliance. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the storm water pollution prevention plan and this permit. The report shall be signed in accordance with Part II.K.; and

d) Where compliance evaluation schedules overlap with inspections required under Part I.F.1.d.3)d), the compliance evaluation may be conducted in place of one such inspection.

2. General Storm Water Conditions

a. **Quarterly Visual Examination of Storm Water Quality.** Unless another more frequent schedule is established elsewhere within this permit, the permittee shall perform and document a visual examination of a storm water discharge associated with industrial activity from each outfall. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December.

1) Examination shall be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. The examination shall document observations of color, odor, clarity, floating solids, settle solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well-lit area. No analytical tests are required to be performed on samples. All such samples shall e collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previous measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being

conducted. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term.

2) Visual examination reports must be maintained onsite with the pollution prevention plan. The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snowmelt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settle solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution) and probable sources of any observed storm water contamination.

3) When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may collect a sample of effluent of one of such outfalls and report that the examination data also applies to the substantially identical outfall(s) provided that the permittee includes in the storm water pollution prevention plan a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40-65 percent), or high (above 65 percent) shall be provided in the plan.

4) When the permittee is unable to conduct the visual examination due to adverse climatic conditions, the permittee must document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

b. **Prohibition of Nonstorm Water Discharges.** Except as provided in this paragraph or elsewhere in this permit, all storm water discharges covered by this permit shall be composed entirely of storm water. The following nonstorm water discharges may be authorized by this permit provided the nonstorm water component of the discharge is in compliance with this permit: discharges from fire fighting activities; fire hydrant flushings; potable water sources including waterline flushings; uncontaminated compressor condensate; irrigation drainage; lawn watering; routine external building washdown that does not use detergents or other compounds; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; uncontaminated springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials such as solvents
All other nonstorm water discharges must be addressed within and in compliance with this VPDES permit.

c. **Releases of Hazardous Substances or Oil in Excess of Reportable Quantities.** The discharge of hazardous substances or oil in the storm water discharge(s) from a facility shall be prevented or minimized in accordance with the applicable storm water pollution prevention plan for the facility. This permit does not authorize the discharge of hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110 (1998), 40 CFR Part 117 (1998) or 40 CFR Part 302 (1998) occurs during a 24-hour period, the permittee is required to notify the DEQ-NVRO in

accordance with the requirements of Part II, G. of this permit as soon as he or she has knowledge of the discharge. In addition, the storm water pollution prevention plan required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate. This permit does not relieve the permittee of the reporting requirements of 40 CFR Part 110 (1998), 40 CFR Part 117 (1998), and 40 CFR Part 302 (1998) or §62.1-44.34:19 of the Code of Virginia.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring.

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records.

1. Records of monitoring information shall include:
   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) and time(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.
2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results.

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:
   Department of Environmental Quality - Northern Virginia Regional Office (DEQ-NVRO)
   13901 Crown Court
   Woodbridge, VA 22193.
2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.
3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information.

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from this discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges.

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges.

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II.F.; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II.F., shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges.

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.
2. A written report shall be submitted within 5 days and shall contain:
   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I. if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.
3. The permittee shall report all instances of noncompliance not reported under Parts II, I.1.or I.2., in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II, G., H. and I. may be made to the Department's Northern Virginia Regional Office at (703) 583-3852 (voice) or (703) 583-3841 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes.

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements.

1. Applications. All permit applications shall be signed as follows:
   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
      1) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or
      2) The manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
   b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
   c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes:
      1) The chief executive officer of the agency, or
      2) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:
   a. The authorization is made in writing by a person described in Part II.K.1.;
   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
   c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II.K.2.is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2. shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.
4. Certification. Any person signing a document under Parts II, K.1. or K.2. shall make the following certification:

   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply.

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit.

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law.

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U.), and "upset" (Part II.V.) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of solids or sludges.

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II, U.2. and U.3.
2. Notice
   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.
3. Prohibition of bypass.
   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
      1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up

equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

3) The permittee submitted notices as required under Part II.U.2.

b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset.

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2. are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
   a. An upset occurred and that the permittee can identify the cause(s) of the upset;
   b. The permitted facility was at the time being properly operated;
   c. The permittee submitted notice of the upset as required in Part II.I.; and
   d. The permittee complied with any remedial measures required under Part II.S.
3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry.

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions.

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits.

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2., a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.
2. As an alternative to transfers under Part II.Y.1., this permit may be automatically transferred to a new permittee if:
   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability.

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

FACILITY NAME: Virginia Power – Possum Point
ADDRESS: 19000 Possum Point Road, Dumfries, VA 22026

VPDES PERMIT NO. VA0002071
OUTFALL NO. 005

DEQ Parameter No.	EPA Parameter No.	Parameter	EPA Analysis No.	Quantification Level[1] (µg/L)	Reporting Results [1] (µg/L)	Sample Type[2]	Sample Frequency[3]	Specific Target Value[4] (µg/L)
METALS								
-		Antimony (Dissolved)	[5]	[5]		G	1/ Y	NA
-	-	Arsenic III (Dissolved)	[5]	[5]		G	1/ Y	114.0
440	01025	Cadmium (Dissolved)	[5]	[5]		G	1/ Y	0.78
232	01033	Chromium III	[5]	[5]		G	1/ Y	142.22
231	01220	Chromium VI	[5]	[5]		G	1/ Y	6.6
442	01040	Copper (Dissolved)	[5]	[5]		G	1/ Y	8.17
405	01049	Lead (Dissolved)	[5]	[5]		G	1/ Y	14.03
444	71900	Mercury (Dissolved)	[5]	[5]		G	1/ Y	1.0
445	01065	Nickel (Dissolved)	[5]	[5]		G	1/ Y	14.03
446	01145	Selenium (Dissolved)	[5]	[5]		G	1/ Y	3
447	01075	Silver (Dissolved)	[5]	[5]		G	1/ Y	2.16
448	01092	Zinc (Dissolved)	[5]	[5]		G	1/ Y	73.17
PESTICIDES/PCB'S								
332	39330	Aldrin	608	0.05		G or C	1/ Y	N/A
333	39350	Chlordane	608	0.2		G or C	1/ Y	N/A
334	77969	Chlorpyrifos (Dursban)	622	[7]		G or C	1/ Y	N/A
-	-	DDD	608	0.1		G or C	1/ Y	N/A
-	-	DDE	608	0.1		G or C	1/ Y	N/A
335	39370	DDT	608	0.1		G or C	1/ Y	N/A
336	39560	Demeton	[6]	[7]		G or C	1/ Y	N/A
337	39380	Dieldrin	608	0.1		G or C	1/ Y	N/A
-	-	Endosulfan	608	0.1		G or C	1/ Y	N/A
339	39390	Endrin	608	0.1		G or C	1/ Y	N/A
340	39580	Guthion	622	[7]		G or C	1/ Y	N/A
341	39410	Heptachlor	608	0.05		G or C	1/ Y	N/A
342	77835	Hexachlorocyclohexane (Lindane)	608	0.05		G or C	1/ Y	N/A
-	-	Kepone	[6]	[7]		G or C	1/ Y	N/A
343	39530	Malathion	[6]	[7]		G or C	1/ Y	N/A
344	39480	Methoxychlor	[6]	[7]		G or C	1/ Y	N/A
345	39755	Mirex	[6]	[7]		G or C	1/ Y	N/A
346	39540	Parathion	[6]	[7]		G or C	1/ Y	N/A
641	-	PCB-1242	608	1.0		G or C	1/ Y	N/A
642	-	PCB-1254	608	1.0		G or C	1/ Y	N/A
643	-	PCB-1221	608	1.0		G or C	1/ Y	N/A
644	-	PCB-1232	608	1.0		G or C	1/ Y	N/A
645	-	PCB-1248	608	1.0		G or C	1/ Y	N/A
618	39508	PCB-1260	608	1.0		G or C	1/ Y	N/A
646		PCB-1016	608	1.0		G or C	1/ Y	N/A

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY MONITORING
ATTACHMENT A, PAGE 2 of 4

FACILITY NAME: Virginia Power – Possum Point
ADDRESS: 19000 Possum Point Road, Dumfries, VA 22026

VPDES PERMIT NO. VA0002071
OUTFALL NO. 005

DEQ Parameter No.	EPA Parameter No.	Parameter	EPA Analysis No.	Quantification Level[1] (µg/L)	Reporting Results [1] (µg/L)	Sample Type[2]	Sample Frequency[3]	Specific Target Value[4] (µg/L)
349	39400	Toxaphene	608	5.0		G or C	1/ Y	N/A
BASE NEUTRAL EXTRACTABLES								
-	-	Acenaphthene	625	10.0		G or C	1/ Y	N/A
275	34222	Anthracene	625	10.0		G or C	1/ Y	N/A
276	34526	Benzo(a) anthracene	625	10.0		G or C	1/ Y	N/A
648	-	Benzo(b) fluoranthene	625	10.0		G or C	1/ Y	N/A
278	34242	Benzo(k) fluoranthene	625	10.0		G or C	1/ Y	N/A
277	34247	Benzo(a)pyrene	625	10.0		G or C	1/ Y	N/A
-	-	Butyl benzyl phthalate	625	10.0		G or C	1/ Y	N/A
282	34320	Chrysene	625	10.0		G or C	1/ Y	N/A
654	-	Dibenz(a,h)anthracene	625	20.0		G or C	1/ Y	N/A
-	-	Dibutyl phthalate	625	10.0		G or C	1/ Y	N/A
259	34536	1,2-Dichlorobenzene	625	10.0		G or C	1/ Y	N/A
264	34566	1,3-Dichlorobenzene	625	10.0		G or C	1/ Y	N/A
266	34571	1,4-Dichlorobenzene	625	10.0		G or C	1/ Y	N/A
-	-	Diethyl phthalate	625	10.0		G or C	1/ Y	N/A
170	-	Di-2-Ethylhexyl Phthalate	625	10.0		G or C	1/ Y	N/A
239	34611	2,4-Dinitrotoluene	625	10.0		G or C	1/ Y	N/A
287	34376	Fluoranthene	625	10.0		G or C	1/ Y	N/A
288	34381	Fluorene	625	10.0		G or C	1/ Y	N/A
651	-	Indeno(1,2,3-cd)pyrene	625	20.0		G or C	1/ Y	N/A
650	-	Isophorone	625	10.0		G or C	1/ Y	N/A
293	34696	Naphthalene	625	10.0		G or C	1/ Y	N/A
-	-	Nitrobenzene	625	10.0		G or C	1/ Y	N/A
296	34469	Pyrene	625	10.0		G or C	1/ Y	N/A
-	-	1,2,4 Trichlorobenzene	625	10.0		G or C	1/ Y	N/A
VOLATILES								
216	34030	Benzene	624	10.0		G	1/ Y	N/A
484	32104	Bromoform	624	10.0		G	1/ Y	N/A
236	32102	Carbon Tetrachloride	624	10.0		G	1/ Y	N/A
652	-	Chlorodibromomethane	624	10.0		G	1/ Y	N/A
223	32106	Chloroform	624	10.0		G	1/ Y	N/A
649		Dichloromethane	624	20.0		G	1/ Y	N/A
244	79603	Dichlorobromomethane	624	20.0		G	1/ Y	N/A
260	34531	1,2-Dichloroethane	624	10.0		G	1/ Y	N/A
-	-	1,1-Dichloroethylene	624	10.0		G	1/ Y	N/A
172	34371	Ethylbenzene	624	10.0		G	1/ Y	N/A
653		Monochlorobenzene	624	50.0		G	1/ Y	N/A
220	34475	Tetrachloroethylene	624	10.0		G	1/ Y	N/A

FACILITY NAME: Virginia Power – Possum Point
ADDRESS: 19000 Possum Point Road, Dumfries, VA 22026

VPDES PERMIT NO. VA0002071
OUTFALL NO. 005

DEQ Parameter No.	EPA Parameter No.	Parameter	EPA Analysis No.	Quantification Level[1] (µg/L)	Reporting Results [1] (µg/L)	Sample Type[2]	Sample Frequency[3]	Specific Target Value[4] (µg/L)
222	34010	Toluene	624	10.0		G	1/ Y	N/A
155	39180	Trichloroethylene	624	10.0		G	1/ Y	N/A
173	39175	Vinyl Chloride	624	10.0		G	1/ Y	N/A
ACIDS EXTRACTABLES								
-	-	2-Chlorophenol	625	10.0		G or C	1/ Y	N/A
-	-	2,4 Dichlorophenol	625	10.0		G or C	1/ Y	N/A
-	-	2,4 Dimethylphenol	625	10.0		G or C	1/ Y	N/A
210	39032	Pentachlorophenol	625	50.0		G or C	1/ Y	N/A
175	46000	Phenol[8]	625	10.0		G or C	1/ Y	N/A
602	34621	2,4,6-Trichlorophenol	625	10.0		G or C	1/ Y	N/A
MISCELLANEOUS								
-	-	Chlorides (mg/L)	[6]	[7]	(mg/L)	C or G	1/ Y	N/A
005	50060	Chlorine, Total Residual	[6]	100		G	1/ Y	N/A
018	00720	Cyanide	335.2	10.0		G	1/ Y	N/A
137	00900	Hardness (as mg/L $CaCO_3$)	[6]	[7]	(mg/L)	C or G	1/ Y	N/A
-	-	Hydrogen Sulfide	[6]	[7]		G	1/ Y	N/A
-	-	Nitrate (as mg/L Nitrogen)	[6]	[7]	(mg/L)	C or G	1/ Y	N/A
009	00945	Sulfate (mg/L)	[6]	[7]	(mg/L)	C or G	1/ Y	N/A
350	30340	Tributyltin[9]	NBSR 85-3295	[7]		C or G	1/ Y	N/A
252	81551	Xylenes (total)	SW 846 Method 021B	[7]		G	1/ Y	N/A

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment A

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (μg/L) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<[QL]" on the Attachment A form, where the actual test method QL shall be substituted for "[QL]".

(2) Sample Type

G = Grab = An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported.

C = Composite = A 24-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period. Samples consisting of less than one sample per hour may, on a case-by-case basis, be considered to meet the definition of a 24-hour composite if approved by the DEQ-NVRO. For composite metals samples, the individual sample aliquots shall be filtered and preserved immediately upon collection and prior to compositing.

(3) Frequency

1/5 YR = once after the start of the third year from the permit's effective date but 180 days prior to permit expiration.
X = no monitoring required

(4) Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The specific target values are subject to change based on additional information such as hardness data, receiving stream flow and design flows.

(5) A specific analytical method is not specified. An appropriate method shall be selected from the following list of EPA methods (or any approved method presented in 40 CFR Part 136) which will achieve a quantification level that is less than the indicated specific target value for each metal. If the test result is less than the specified specific target value, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

Metal	Analytical Methods
Antimony	204.1; 200.7; 204.2; 1639; 1638; 200.8
Arsenic	200.7; 200.9; 200.8; 1632
Barium	208.1; 200.7; 208.2; 200.8
Cadmium	213.1; 200.7; 213.2; 200.9; 200.8; 1638; 1639; 1637; 1640
Chromium*	218.1; 200.7; 218.2; 218.3; 200.9; 1639; 200.8
Chromium VI	218.4; 1636
Copper	220.1; 200.7; 220.2; 200.9; 1638; 1640; 200.8
Iron	236.1; 200.7; 236.2
Lead	239.1; 200.7; 239.2; 200.9; 200.8; 1638; 1637; 1640
Manganese	243.1; 200.7; 200.9; 243.2; 200.8
Mercury	200.7; 245.1; 200.8; 1631
Nickel	249.1; 200.7; 249.2; 1639; 200.9; 1638; 200.8; 1640
Selenium	200.7; 270.2; 200.8; 1638; 1639; 200.9
Silver	272.1; 200.7; 200.9; 272.2; 1638; 200.8
Zinc	289.1; 200.7; 1638; 1639; 200.8; 289.2.

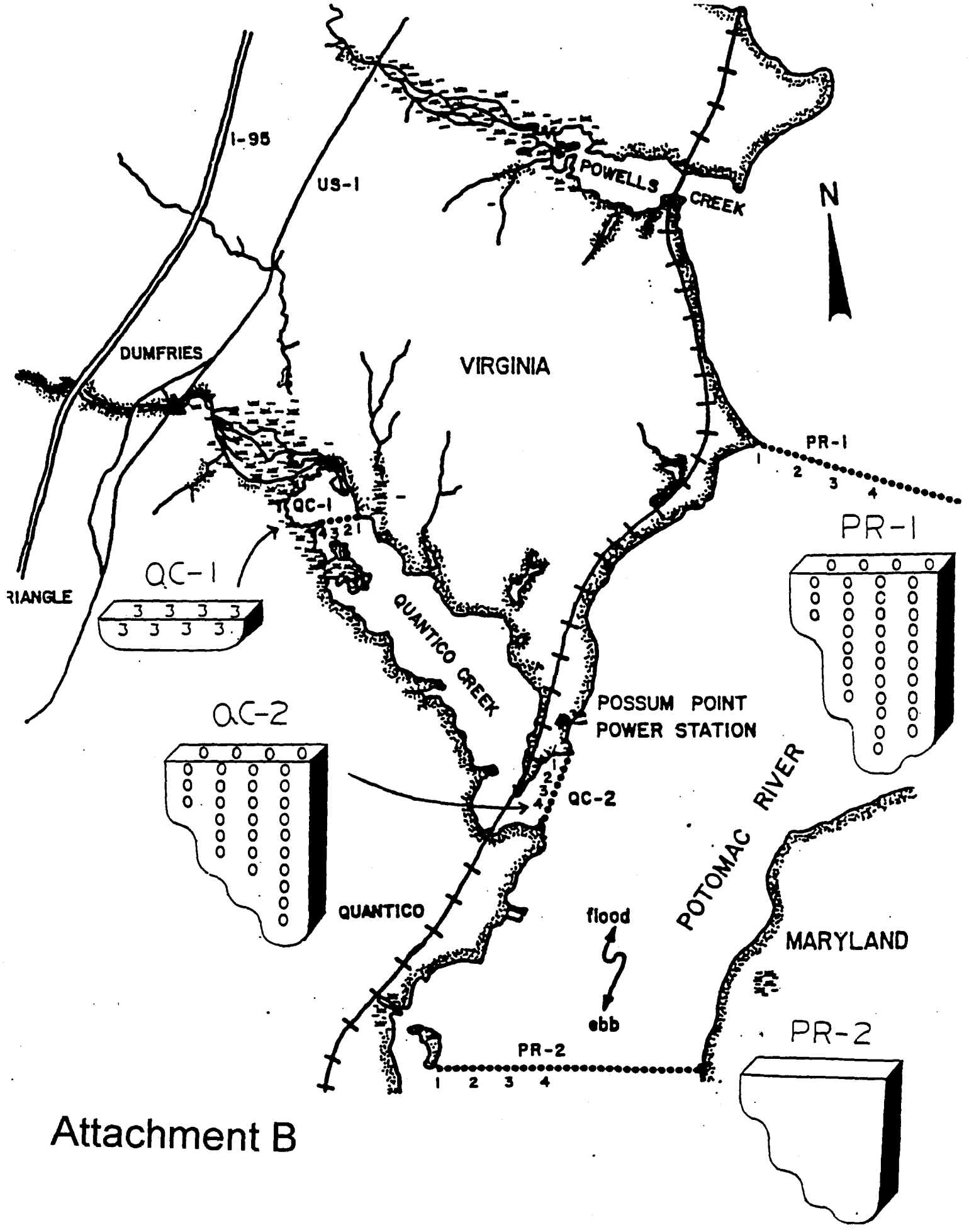
* Chromium III is measured by the total chromium analysis. If the result of the total chromium analysis is less than or equal to the QL (or specific target value), the result for chromium III can be reported as less than QL.

(6) Any approved method presented in 40 CFR Part 136.

(7) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

(8) Requires continuous extraction.

(9) DEQ's approved analysis for TBT may also be used. (See A Manual for the Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science dated November 1996.)



Attachment B

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 09/17/2001

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - Possum Point Power Station
ADDRESS 5000 Dominion Boulevard
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Road

VA0002071	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Northern Va. Regional Office
13901 Crown Court

Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

OFFICIAL COPY

Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL		*********	*********	*********			1/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.	*********	9.	SU		1/M	GRAB
082 HEAT REJ**8	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	5.58	BTU/H	*********	*********	*********			CONT	CALC
083 HEAT REJ**9	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	1.5	BTU/H	*********	*********	*********			CONT	CALC
158 CL2, TOTAL FINAL	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	0.2	MG/L		1/W	GRAB
444 MERCURY, DISSOLVED (UG/L AS HG)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	NL	NL	UG/L		4/YR	GRAB
704 ACUTE 48 HR STATIC CERIODAPHNIA DUBIA - NOAE	REPORTD	*********			*********	*********					
	REQRMNT	*********	********		*********	*********	NL	TU-A		1/YR	GRAB
721 CHRONIC 7-DAY STATIC RENEWAL PIMEPHALES PROMEL	REPORTD	*********			*********	*********					
	REQRMNT	*********	********		*********	*********	NL	TU-C		1/YR	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

This outfall is considered 001/002.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 09/17/2001

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - Possum Point Power Station
ADDRESS 5000 Dominion Boulevard
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Road

VA0002071	003
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

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13901 Crown Court

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.	*********	9.	SU		1/M	GRAB
083 HEAT REJ**9	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	1.14	BTU/H	*********	*********	*********			CONT	CALC
158 CL2, TOTAL FINAL	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	0.2	MG/L		1/W	GRAB
444 MERCURY, DISSOLVED (UG/L AS HG)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	NL	NL	UG/L		4/YR	GRAB
704 ACUTE 48 HR STATIC CERIODAPHNIA DUBIA - NOAE	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-A		1/YR	COMP
721 CHRONIC 7-DAY STATIC RENEWAL PIMEPHALES PROMEL	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-C		1/YR	COMP
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - Possum Point Power Station
ADDRESS 5000 Dominion Boulevard
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Road

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0002071	004
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 09/17/2001

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002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.	*********	9.	SU		2/M	GRAB
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30.	50.	MG/L		2/M	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15.	20.	MG/L		2/M	GRAB
705 ACUTE 48 HR STATIC PIMEPHALES PROMELAS - NOA	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-A		1/YR	COMP
721 CHRONIC 7-DAY STATIC RENEWAL PIMEPHALES PROMEL	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-C		1/YR	COMP
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 09/17/2001

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - Possum Point Power Station
ADDRESS 5000 Dominion Boulevard
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Road

VA0002071	005
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Northern Va. Regional Office
13901 Crown Court

Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

OFFICIAL COPY

Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			2/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.	*********	9.	SU		2/M	GRAB
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30.	100.	MG/L		2/M	GRAB
152 SELENIUM, TOTAL (AS SE)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	NL	NL	UG/L		4/YR	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15.	20.	MG/L		2/M	GRAB
708 ACUTE 48 HR STATIC CYPRINODON VARIEGATUS - N	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-A		1/YR	COMP
720 CHRONIC 3-BROOD STATIC RENEWAL CERIODAPHN	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-C		1/YR	COMP
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 09/17/2001

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - Possum Point Power Station
ADDRESS 5000 Dominion Boulevard
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Road

VA0002071	201
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Northern Va. Regional Office
13901 Crown Court

Woodbridge VA 22193

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Oct 02 2019

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/D-M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0			1/D-W	GRAB
016 CHROMIUM, TOTAL (AS CR)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	200	200	UG/L		1/D-M	GRAB
020 ZINC, TOTAL (AS ZN)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1000	1000	UG/L		1/D-M	GRAB
044 CL2, FREE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	0.2	0.5	MG/L		1/D-W	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 09/17/2001

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - Possum Point Power Station
ADDRESS 5000 Dominion Boulevard
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Road

VA0002071	202
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL		*********	*********	*********			1/D-M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0			1/D-W	GRAB
016 CHROMIUM, TOTAL (AS CR)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	200	200			1/D-M	GRAB
020 ZINC, TOTAL (AS ZN)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1000	1000			1/D-M	GRAB
044 CL2, FREE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	0.2	0.5			1/D-W	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - Possum Point Power Station
ADDRESS 5000 Dominion Boulevard
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Road

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0002071	501
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 09/17/2001

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Northern Va. Regional Office
13901 Crown Court

Woodbridge VA 22193

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Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/D-M	EST
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30.	100.	MG/L		1/D-M	GRAB
019 COPPER, TOTAL (AS CU)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1000	1000	UG/L		1/D-W	GRAB
031 IRON, TOTAL (AS FE)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1000	1000	UG/L		1/D-W	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15.	20.	MG/L		1/D-M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 09/17/2001

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - Possum Point Power Station
ADDRESS 5000 Dominion Boulevard
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Road

VA0002071	502
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Northern Va. Regional Office
13901 Crown Court

Woodbridge VA 22193

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Oct 02 2019

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			2/M	EST
257 PETROLEUM HYDROCARBONS, TOTAL RECOV	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L		2/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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Glen Allen VA 23060

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0002071	503
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 09/17/2001

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Northern Va. Regional Office
13901 Crown Court

Woodbridge VA 22193

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OFFICIAL COPY Oct 02 2019

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL		*********	*********	*********			2/M	EST
002 PH	REPORTD					*********					
	REQRMNT	********	********		NL	*********	NL	SU		2/M	GRAB
004 TSS	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	MG/L		2/M	GRAB
016 CHROMIUM, TOTAL (AS CR)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
019 COPPER, TOTAL (AS CU)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
020 ZINC, TOTAL (AS ZN)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
033 ARSENIC, TOTAL (AS AS)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
034 LEAD, TOTAL (AS PB)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0002071	503
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 09/17/2001

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
042 MERCURY, TOTAL (HG)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
062 TIN, TOTAL (AS SN)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
090 MOLYBDENUM, TOTAL (AS MO)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
091 TITANIUM, TOTAL (AS TI)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
092 N-DECANE	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
093 N-OCTADECANE	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
096 CADMIUM, TOTAL (AS CD)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
151 BARIUM, TOTAL (AS BA)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 09/17/2001

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - Possum Point Power Station
ADDRESS 5000 Dominion Boulevard
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FACILITY LOCATION 19000 Possum Point Road

VA0002071	503
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

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(REGIONAL OFFICE)

Northern Va. Regional Office
13901 Crown Court

Woodbridge VA 22193

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OFFICIAL COPY

Oct-02-2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
160 ANTIMONY, TOTAL (AS SB)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
170 BIS(2-ETHYLHEXYL) PHTHALATE	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
172 ETHYLBENZENE	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
216 BENZENE (AS C6H6)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
222 TOLUENE (AS C7H8)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
237 COBALT, TOTAL (AS CO)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOV	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	MG/L		2/M	GRAB
287 FLUORANTHENE	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 09/17/2001

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Virginia Power - Possum Point Power Station
ADDRESS 5000 Dominion Boulevard
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Road

VA0002071	503
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Northern Va. Regional Office
13901 Crown Court

Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

OFFICIAL COPY Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
486 BUTYL BENZYL PHTHALATE	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		2/M	GRAB
500 OIL & GREASE	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	MG/L		2/M	GRAB
745 TOTAL XYLENES	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	MG/L		2/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

THIS REPORT IS REQUIRED BY LAW (33 U. S. C. § 1318 40 CFR 122.60). FAILURE TO REPORT OR FAILURE TO REPORT TRUTHFULLY CAN RESULT IN CIVIL PENALTIES NOT TO EXCEED $10,000 PER DAY OF VIOLATION: OR IN CRIMINAL PENALTIES NOT TO EXCEED $25,000 PER DAY OF VIOLATION OR BY IMPRISONMENT FOR NOT MORE THAN FIVE YEARS, OR BOTH.

GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces are blank or a limitation appears, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and, if appropriate, maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading". KG/DAY = Concentration(mg/l) x Flow(MGD) x 3.785.
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. Enter the number of samples which do not comply with the maximum and /or minimum permit requirements in the "reported" space in the column marked "No. Ex.".
7. Enter the actual frequency of analysis for each parameter (number of times per day, week, month) in the "reported" space in the column marked "Frequency of Analysis".
8. Enter the actual type of sample collected for each parameter in the "reported" space in the column marked "Sample Type".
9. Enter additional required data or comments in the space marked "additional permit requirements or comments".
10. Record the number of bypasses during the month, the total flow in million gallons and BOD5 in kilograms in the proper columns in the section marked "Bypasses and Overflows".
11. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator, the operator's certificate number should be reported in the space provided.
12. The principal executive officer should then review the form and sign in the space provided and provide a telephone number where he/she can be reached.
13. You are required to sample at the frequency and type indicated in your permit.
14. Send the completed form to your Dept. of Environmental Quality Regional Office by the 10th of each month.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each violation by date.
17. If you have any questions, contact the Dept. of Environmental Quality Regional Office.

RCE
- RJW

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

W. Tayloe Murphy, Jr.
Secretary of Natural Resources

Northern Virginia Regional Office
13901 Crown Court
Woodbridge, VA 22193-1453
(703) 583-3800 *fax* (703) 583-3801
www.deq.state.va.us

Robert G. Burnley
Director

Jeffery A. Steers
Regional Director

November 10, 2004

Virginia Electric and Power Company
Attn: Bob Williams, Environmental Consultant
5000 Dominion Boulevard
Richmond, VA 23060

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re: Modification of VPDES Permit No. VA0002071
Virginia Power - Possum Point Power Station, Dumfries - Prince William County

Dear Mr. Williams:

The Department of Environmental Quality (DEQ) has approved the enclosed effluent limitations and monitoring requirements for the above-referenced permit. A copy of your permit and the Discharge Monitoring Report (DMR) form is included. Please make additional copies of the DMR for future use. The first DMR for the month of December is due by January 10, 2005. Please send DMRs to:

Virginia Department of Environmental Quality
Northern Virginia Regional Office
13901 Crown Court
Woodbridge, VA 22193-1453

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first)within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternately, any owner under §§ 62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in §1.23(b) of the Board's Procedural Rule No. 1. In case involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

If you have questions about the permit, please contact Christine Trinh at (703)583-3903, or by E-mail at chtrinh@deq.virginia.gov.

Sincerely,

Thomas A. Faha

Thomas A. Faha
Water Permit Manager

Enc.: Permit No. VA0002071

cc: DEQ-Water, OWPP
EPA-Region III, 3WP12
Department of Health, Culpeper
Water Compliance, NVRO
Water Resources Development, NVRO

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Possum Point
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Rd

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0002071	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 11/09/2004

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.	*********	9.	SU		1/M	GRAB
082 HEAT REJ**8	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	5.58	BTU/H	*********	*********	*********			CONT	CALC
083 HEAT REJ**9	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	1.5	BTU/H	*********	*********	*********			CONT	CALC
158 CL2, TOTAL FINAL	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	0.022	0.032	MG/L		2/M	GRAB
704 ACUTE 48 HR STATIC CERIODAPHNIA DUBIA - NOAE	REPORTD	*********			*********	*********					
	REQRMNT	*********	********		*********	*********	NL	TU-A		2/YR	GRAB
721 CHRONIC 7-DAY STATIC RENEWAL PIMEPHALES PROMEL	REPORTD	*********			*********	*********					
	REQRMNT	*********	********		*********	*********	NL	TU-C		2/YR	GRAB
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

This outfall is considered 001/002.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Possum Point
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Rd

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0002071	201
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 11/09/2004

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/D-M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		1/D-W	GRAB
016 CHROMIUM, TOTAL (AS CR)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	0.2	0.2	MG/L		1/D-M	GRAB
020 ZINC, TOTAL (AS ZN)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1.0	1.0	MG/L		1/D-M	GRAB
044 CL2, FREE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	0.2	0.5	MG/L		1/D-W	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 11/09/2004

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Possum Point
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Rd

VA0002071	202
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/D-M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		1/D-W	GRAB
016 CHROMIUM, TOTAL (AS CR)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	0.2	0.2	MG/L		1/D-M	GRAB
020 ZINC, TOTAL (AS ZN)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1.0	1.0	MG/L		1/D-M	GRAB
044 CL2, FREE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	0.2	0.5	MG/L		1/D-W	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Possum Point
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Rd

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0002071	003
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 11/09/2004

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.	*********	9.	SU		1/M	GRAB
083 HEAT REJ**9	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	1.14	BTU/H	*********	*********	*********			CONT	CALC
158 CL2, TOTAL FINAL	REPORTD										
	REQRMNT	********	********			0.022	0.032	MG/L		2/M	GRAB
704 ACUTE 48 HR STATIC CERIODAPHNIA DUBIA - NOAE	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-A		1/YR	COMP
721 CHRONIC 7-DAY STATIC RENEWAL PIMEPHALES PROMEL	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-C		1/YR	COMP
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

Industrial Major 11/09/2004

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Possum Point
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Rd

VA0002071	004
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

OFFICIAL COPY Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			2/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.	*********	9.	SU		2/M	GRAB
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30.	100.	MG/L		2/M	GRAB
010 NITRATES	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L		1/3M	GRAB
011 NITRITES	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L		1/3M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L		1/3M	GRAB
039 AMMONIA, AS N	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L		1/3M	GRAB
068 TKN (N-KJEL)	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L		1/3M	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 11/09/2004

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Possum Point
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Rd

VA0002071	004
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

OFFICIAL COPY Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
080 TEMPERATURE, WATER (DEG. C)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	C		2/M	IS
082 HEAT REJ**8	REPORTD				*********	*********	*********				
	REQRMNT	********	1.9	BTU/H	*********	*********	*********			2/M	CALC
158 CL2, TOTAL FINAL	REPORTD				*********						
	REQRMNT	********	********		*********	0.022	0.032	MG/L		1/W	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15.	20.	MG/L		2/M	GRAB
704 ACUTE 48 HR STATIC CERIODAPHNIA DUBIA - NOAE	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-A		1/3M	24HC
705 ACUTE 48 HR STATIC PIMEPHALES PROMELAS - NOA	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-A		1/3M	24HC
720 CHRONIC 3-BROOD STATIC RENEWAL CERIODAPHN	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-C		1/3M	24HC
721 CHRONIC 7-DAY STATIC RENEWAL PIMEPHALES PROMEL	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-C		1/3M	24HC

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Possum Point
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Rd

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0002071	005
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 11/09/2004

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			2/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.	*********	9.	SU		2/M	GRAB
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30.	50.	MG/L		2/M	GRAB
010 NITRATES	REPORTD	*********			*********		*********				
	REQRMNT	*********	********		*********	NL	*********	MG/L		1/3M	GRAB
011 NITRITES	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L		1/3M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L		1/3M	GRAB
013 NITROGEN, TOTAL AS N	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L		1/3M	GRAB
039 AMMONIA, AS N	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L		1/3M	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Possum Point
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Rd

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0002071	005
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 11/09/2004

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13901 Crown Court
Woodbridge VA 22193

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OFFICIAL COPY Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
068 TKN (N-KJEL)	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L		1/3M	GRAB
152 SELENIUM, TOTAL (AS SE)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	NL	NL	UG/L		1/M	GRAB
446 SELENIUM, DISSOLVED (UG/L AS SE)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	UG/L		1/M	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15.	20.	MG/L		2/M	GRAB
711 ACUTE 48 HR STATIC CERIODAPHNIA DUBIA - TUa	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-A		1/3M	GRAB
712 ACUTE 48 HR STATIC PIMEPHALES PROMELAS - TU	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-A		1/3M	GRAB
720 CHRONIC 3-BROOD STATIC RENEWAL CERIODAPHN	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-C		1/3M	GRAB
721 CHRONIC 7-DAY STATIC RENEWAL PIMEPHALES PROMEL	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-C		1/3M	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Possum Point
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Rd

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0002071	501
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 11/09/2004

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

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OFFICIAL COPY Oct 02 2019

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/D-M	EST
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30.	100.	MG/L		1/D-M	GRAB
019 COPPER, TOTAL (AS CU)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1.0	1.0	MG/L		1/D-W	GRAB
031 IRON, TOTAL (AS FE)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1.0	1.0	MG/L		1/D-W	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15.	20.	MG/L		1/D-M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

Industrial Major 11/09/2004

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion Virginia Power - Possum Point
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Rd

VA0002071	502
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
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Woodbridge VA 22193

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			2/M	EST
257 PETROLEUM HYDROCARBONS, TOTAL RECOV	REPORTD				*********		*********				
	REQRMNT	********	********		*********	30	*********	MG/L		2/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

THIS REPORT IS REQUIRED BY LAW (33 U. S. C. § 1318 40 CFR 122.60). FAILURE TO REPORT OR FAILURE TO REPORT TRUTHFULLY CAN RESULT IN CIVIL PENALTIES NOT TO EXCEED $10,000 PER DAY OF VIOLATION: OR IN CRIMINAL PENALTIES NOT TO EXCEED $25,000 PER DAY OF VIOLATION OR BY IMPRISONMENT FOR NOT MORE THAN FIVE YEARS, OR BOTH.

GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces are blank or a limitation appears, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and, if appropriate, maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading". KG/DAY = Concentration(mg/l) x Flow(MGD) x 3.785.
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. Enter the number of samples which do not comply with the maximum and /or minimum permit requirements in the "reported" space in the column marked "No. Ex.".
7. Enter the actual frequency of analysis for each parameter (number of times per day, week, month) in the "reported" space in the column marked "Frequency of Analysis".
8. Enter the actual type of sample collected for each parameter in the "reported" space in the column marked "Sample Type".
9. Enter additional required data or comments in the space marked "additional permit requirements or comments".
10. Record the number of bypasses during the month, the total flow in million gallons and BOD5 in kilograms in the proper columns in the section marked "Bypasses and Overflows".
11. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator, the operator's certificate number should be reported in the space provided.
12. The principal executive officer should then review the form and sign in the space provided and provide a telephone number where he/she can be reached.
13. You are required to sample at the frequency and type indicated in your permit.
14. Send the completed form to your Dept. of Environmental Quality Regional Office by the 10th of each month.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each violation by date.
17. If you have any questions, contact the Dept. of Environmental Quality Regional Office.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No.: VA0002071
Effective Date: September 13, 2001
Modification Date: November 10, 2004
Expiration Date: September 13, 2006

AUTHORIZATION TO DISCHARGE UNDER THE
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in this permit.

Owner: Virginia Electric and Power Company
Facility Name: Possum Point Power Station
City: Dumfries
County: Prince William
Facility Location: 19000 Possum Point Road

The owner is authorized to discharge to the following receiving stream:

Stream: Quantico Creek and Quantico Creek, UT
River Basin: Potomac River
River Subbasin: Potomac River
Section: 06
Class: II
Special Standards: b

The authorized discharge shall be in accordance with this cover page, Part I - Effluent Limitations and Monitoring Requirements and Part II - Conditions Applicable To All VPDES Permits, as set forth herein.

Director, Department of Environmental Quality

10 November 2004
Date

A.1. Outfall 001/ 002 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 001 / 002, from the Seal Pit. The waste streams from outfalls 001 / 002 are combined in the Seal Pit. Therefore, the discharge quality from the two outfalls is considered to be identical, but other waste streams enter outfall 002, thus the samples must be procured from 002's discharge pipe. The reporting may be recorded on one Discharge Monitoring Report (DMR), designated as Outfall 001 /002. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	1/M	Grab
Chlorine, Total Residual[2]	0.022 mg/l	N/A	N/A	0.032 mg/l	2/M	Grab
Heat Rejection (Units 1 & 2)[3]	N/A	N/A	N/A	1.5×10^9 BTU/Hour	Continuous	Calculated
Heat Rejection (Units 3)[3]	N/A	N/A	N/A	5.58×10^8 BTU/Hour	Continuous	Calculated
Acute Toxicity – *C. dubia* (TU_a) [4]	N/A	N/A	N/A	NL	2/Y	Grab
Chronic Toxicity – *P. promelas* (TU_c) [4]	N/A	N/A	N/A	NL	2/Y	Grab

S.U. = Standard Units.
NL = No limit; monitor and report.
MGD = Million gallons per day.
N/A = Not applicable.
2/M = Twice every month.
1/M = Once every month.
2/Y = Twice every year.

[1] = The design flow is 128.5 MGD.
[2] = While Chlorinating Unit Condensers. Please see Part I.B.1, Additional requirements
[3] = Heat Rejection is measured at the respective Condenser Units, prior to discharge to the Seal Basin.
[4] = Please see Part I.D., Toxic Management Program.

Estimate: Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.2. Outfall 201 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 201 (Cooling Tower Blowdown – Unit 5), the effluent from the final treatment process. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/D - M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	1/D - W	Grab
Chlorine, Free Available[2]	N/A	0.2 mg/l	N/A	0.5 mg/l	1/D – W	Grab
Total Chromium	0.2 mg/l	N/A	N/A	0.2 mg/l	1/D - M	Grab
Total Zinc	1.0 mg/l	N/A	N/A	1.0 mg/l	1/D – M	Grab
126 Priority Pollutants [3] (Appendix A of 40 CFR 423)	Non-detectable	N/A	N/A	Non-detectable	1/D – Y	Grab

NL = No limit; monitor and report.
S.U. = Standard units.
MGD = Million gallons per day.
N/A = Not applicable.
1/D – M = Once per Month in which, there is a discharge.
1/D - W = Once per week in which, there is a discharge.
1/D - Y = Once per year in which, there is a discharge.

[1] = The design flow is 7.2 MGD.
[2] = While chlorinating the Unit 5 cooling tower.
[3] = Please see Part I.E.8.. for exclusion from sampling

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.3. Outfall 202 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 202 (Cooling Tower Blowdown – Unit 6), the effluent from the final treatment process. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) (1)	NL	N/A	N/A	NL	1/D - M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	1/D - W	Grab
Chlorine, Free Available(2)	N/A	0.2 mg/l	N/A	0.5 mg/l	1/D – W	Grab
Total Chromium	0.2 mg/l	N/A	N/A	0.2 mg/l	1/D - M	Grab
Total Zinc	1.0 mg/l	N/A	N/A	1.0 mg/l	1/D – M	Grab
126 Priority Pollutants (3) (Appendix A of 40 CFR 423)	Non-detectable	N/A	N/A	Non-detectable	1/D – Y	Grab

NL = No limit; monitor and report.
N/A = Not applicable.
MGD = Million gallons per day.
S.U. = Standard units.
1/D - M = Once per Month in which, there is a discharge.
1/D - W = Once per week in which, there is a discharge.
1/D – Y = Once per year in which, there is a discharge.

(1) = The design flow is 3.2MGD.
(2) = While chlorinating the Unit 6 cooling tower.
(3) = Please see Part I.E.8., for exclusion from sampling

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.4. Outfall 003 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 003 (Cooling Water - Unit 4). Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) (1)	NL	N/A	N/A	NL	1/M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	1/M	Grab
Chlorine, Total Residual(2)	0.022 mg/l	N/A	N/A	0.032 mg/l	2/M	Grab
Heat Rejection (Units 4)(3)	N/A	N/A	N/A	1.14×10^9 BTU/Hour	Continuous	Calculated
Acute Toxicity – *C. dubia* (TU_a) (4)	N/A	N/A	N/A	NL	1/Y	24H-C
Chronic Toxicity – *P. promelas* (TU_c) (4)	N/A	N/A	N/A	NL	1/Y	24H-C

N/A = Not applicable.
NL = No limit; monitor and report.
MGD = Million gallons per day.
S.U. = Standard Units
2/M = Twice every Month.
1/M = Once every month.
1/Y = Once every year.

(1) = The design flow is 142.5 MGD.
(2) = While Chlorinating the Unit 4 condenser. Please see Part I.B.1, Additional Requirements.
(3) = Heat Rejection is measured at the respective Condenser Units, prior to discharge to the Seal Basin.
(4) = Please see Part I.D., Toxic Management Program.

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.

24H-C : The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period. Samples consisting of less than one sample per hour may, on a case-by-case basis, be considered to meet the definition of a 24-hour composite if approved by the DEQ-NVRO.

Grab : An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.5. Outfall 004 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 004 (Low Volume Waste Settling Basin). Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)[1]	NL	N/A	N/A	NL	2/M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	2/M	Grab
Oil and Grease	15 mg/l	N/A	N/A	20 mg/l	2/M	Grab
Nitrogen, Total (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
TKN (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Ammonia (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Nitrates (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Nitrites (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Phosphorus, Total (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Temperature	NL	NL	NL	N/L	2/M	IS
Heat Rejection[2]	NL	NL	N/A	1.9×10^8 BTU/hr	2/M	Calculated
Total Suspended Solids	30 mg/l	N/A	N/A	100	2/M	Grab
Chlorine, Total Residual[3]	0.022 mg/l	N/A	N/A	0.032 mg/l	1/W	Grab
Acute Toxicity – *P. promelas* (TU_a) [4]	N/A	N/A	N/A	NL	1/3 M	24H-C
Acute Toxicity – *C. dubia* (TU_a) [4]	N/A	N/A	N/A	NL	1/3 M	24H-C
Chronic Toxicity – *P. promelas* (TU_c) [4]	N/A	N/A	N/A	NL	1/3 M	24H-C
Chronic Toxicity – *C. dubia* (TU_c) [4]	N/A	N/A	N/A	NL	1/3 M	24H-C

NL = No limit; monitor and report.
S.U. = Standard units.
MGD = Million gallons per day.
N/A = Not applicable.
C = Celsius
IS = Immersion and Stabilization
2/M = Twice every Month.
1/3 M = Once every Quarter
1/W = Once every Week

[1] = The design flow is 5.0 MGD.
[2] = Heat Rejection is to be calculated for the effluent at Outfall 004.
[3] = While Chlorinating only
[4] = Please see Part I.D., Toxic Management Program.

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.

24H-C : The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period. Samples consisting of less than one sample per hour may, on a case-by-case basis, be considered to meet the definition of a 24-hour composite if approved by the DEQ-NVRO

Grab : An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.6. Outfall 005 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 005 (Ash Pond E), the effluent from the final treatment process, unless otherwise specified. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	2/M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	2/M	Grab
Oil and Grease	15 mg/l	N/A	N/A	20 mg/l	2/M	Grab
Nitrogen, Total (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
TKN (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Ammonia (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Nitrates (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Nitrites (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Phosphorus, Total (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Total Suspended Solids	30 mg/l	N/A	N/A	50 mg/l	2/M	Grab
Selenium, Total	NL	N/A	N/A	NL	1/M	Grab
Selenium, Dissolved	NL	N/A	N/A	NL	1/M	Grab
Acute Toxicity – *C. dubia* (TU_a) [2]	N/A	N/A	N/A	NL	1/3 - M	Grab
Acute Toxicity – *P. promelas* (TU_a) [2]	N/A	N/A	N/A	NL	1/3 - M	Grab
Chronic Toxicity – *C. dubia* (TU_c) [2]	N/A	N/A	N/A	NL	1/3 – M	Grab
Chronic Toxicity – *P. promelas* (TU_c) [2]	N/A	N/A	N/A	NL	1/3 – M	Grab

NL = No limit; monitor and report.
S.U. = Standard units.
MGD = Million gallons per day.
N/A = Not applicable.
2/M = Twice every month.
1/M = Once every month.
1/3 M = Once every Quarter

[1] = The design flow is 1.2 MGD.
[2] = Please see Part I.D., Toxic Management Program.

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.7. Outfall 501 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permits effective date and lasting until the permits expiration date, the permittee is authorized to discharge from Outfall Number 501 (Metals Cleaning Waste Basin), the effluent from the final treatment process, unless otherwise specified. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/D - M	Estimate
Oil and Grease	15 mg/l	N/A	N/A	20 mg/l	1/D - M	Grab
Total Suspended Solids	30 mg/l	N/A	N/A	100 mg/l	1/D - M	Grab
Total Iron	1.0 mg/l	N/A	N/A	1.0 mg/l	1/D - M	Grab
Total Copper	1.0 mg/l	N/A	N/A	1.0 mg/l	1/D - M	Grab

NL = No limit; monitor and report. *MGD* = Million gallons per day. 1/D – M = Once per Month in which there is a discharge
S.U. = Standard Units. *N/A* = Not applicable.

[1] = The design flow is 2.5 MGD.

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.8. Outfall 502 - Effluent Limitations and Monitoring Requirements

a. During the period beginning with the permits effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 502 (Oily Waste Pond). Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	2M	Estimate
Total Petroleum Hydrocarbons (TPH) [2]	30 mg/l	N/A	N/A	N/A	2M	Grab

NL = No limit; monitor and report. *MGD* = Million gallons per day. *2/M* = Twice every month.
N/A = Not applicable.

[1] = The design flow is 0.6 MGD.
[2] = This limit is effective September 13, 2005. Otherwise monitoring is only required. Please see Part I.C.1.a for compliance schedule.

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A.9. Groundwater Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permits expiration date, the permittee is authorized to manage pollutants at Ash Pond D and Ash Pond E. The groundwater shall be monitored at the observation well by the permittee as specified below for the following observation wells:

Observation Wells					
Ash Pond D	Stratum D	ED-1, ED-3, ED-9R, ED-15, ED-24, ED-32	Ash Pond E	Stratum D	ES-1, ES-3a, ES-4

PARAMETER	GROUNDWATER MONITORING		MONITORING REQUIREMENTS	
	Limitations	Units	Frequency	Sample Type
Static Water Level (mean sea level)	NL	Feet	Quarterly	Measurement
pH	NL	Standard Units	Quarterly	Grab
Specific Conductivity	NL	Umhos/cm	Quarterly	Grab
Hardness	NL	as $CaCO_3$, mg/l	Quarterly	Grab
Chlorides	NL	mg/l	Quarterly	Grab
Fluoride	NL	mg/l	Quarterly	Grab
Sodium	NL	mg/l	Quarterly	Grab
Potassium	NL	mg/l	Quarterly	Grab
Sulfate	NL	mg/l	Quarterly	Grab
Total Organic Carbon (TOC)	NL	mg/l	Quarterly	Grab
Temperature	NL	°C	Quarterly	Grab
Dissolved Arsenic	NL	mg/l	Quarterly	Grab
Dissolved Barium	NL	mg/l	Quarterly	Grab
Dissolved Cadmium	NL	mg/l	Quarterly	Grab
Dissolved Copper	NL	mg/l	Quarterly	Grab
Dissolved Iron	NL	mg/l	Quarterly	Grab
Dissolved Mercury	NL	mg/l	Quarterly	Grab
Dissolved Lead	NL	mg/l	Quarterly	Grab
Dissolved Nickel	NL	mg/l	Quarterly	Grab
Dissolved Manganese	NL	mg/l	Quarterly	Grab
Dissolved Selenium	NL	mg/l	Quarterly	Grab
Dissolved Silver	NL	mg/l	Quarterly	Grab
Dissolved Vanadium	NL	mg/l	Quarterly	Grab
Dissolved Zinc	NL	mg/l	Quarterly	Grab
Phenol	NL	mg/l	Quarterly	Grab

NL = No Limit: monitor and report
Grab = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

A.10. Groundwater Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permits expiration date, the permittee is authorized to manage pollutants at Ash Pond D and Ash Pond E. The groundwater shall be monitored at the observation well by the permittee as specified below for the following observation wells:

		Observation Wells
Ash Pond D and E	Stratum B	ED-4, ED-5, ED-17
	Stratum E	ED-31
	Stratum F	ED-26, ED-33

PARAMETER	GROUNDWATER MONITORING		MONITORING REQUIREMENTS	
	Limitations	Units	Frequency	Sample Type
Static Water Level (mean sea level)	NL	Feet	Annually	Measurement
pH	NL	Standard Units	Annually	Grab
Specific Conductivity	NL	Umhos/cm	Annually	Grab
Hardness	NL	as $CaCO_3$, mg/l	Annually	Grab
Chlorides	NL	mg/l	Annually	Grab
Fluoride	NL	mg/l	Annually	Grab
Sodium	NL	mg/l	Annually	Grab
Potassium	NL	mg/l	Annually	Grab
Sulfate	NL	mg/l	Annually	Grab
Total Organic Carbon (TOC)	NL	mg/l	Annually	Grab
Temperature	NL	°C	Annually	Grab
Dissolved Arsenic	NL	mg/l	Annually	Grab
Dissolved Barium	NL	mg/l	Annually	Grab
Dissolved Cadmium	NL	mg/l	Annually	Grab
Dissolved Copper	NL	mg/l	Annually	Grab
Dissolved Iron	NL	mg/l	Annually	Grab
Dissolved Mercury	NL	mg/l	Annually	Grab
Dissolved Lead	NL	mg/l	Annually	Grab
Dissolved Nickel	NL	mg/l	Annually	Grab
Dissolved Manganese	NL	mg/l	Annually	Grab
Dissolved Selenium	NL	mg/l	Annually	Grab
Dissolved Silver	NL	mg/l	Annually	Grab
Dissolved Vanadium	NL	mg/l	Annually	Grab
Dissolved Zinc	NL	mg/l	Annually	Grab
Phenol	NL	mg/l	Annually	Grab

NL = No Limit: monitor and report
Grab = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

A.11. Groundwater Monitoring Requirements

a. During the period with the permit's effective date and lasting until the permits expiration date, the permittee is authorized to manage pollutants at the Oily Waste Basin. The groundwater shall be monitored at the observation well by the permittee as specified below for the following observation wells:

Observation Wells	
Oily Waste Pond	OWB-1, OWB-2, OWB-3, OWB-4, OWB-5

PARAMETER	GROUNDWATER MONITORING		MONITORING REQUIREMENTS	
	Limitations	Units	Frequency	Sample Type
Static Water Level (mean sea level)	NL	Feet	Quarterly	Measurement
pH	NL	Standard Units	Quarterly	Grab
Specific Conductivity	NL	Umhos/cm	Quarterly	Grab
Hardness	NL	as $CaCO_3$, mg/l	Quarterly	Grab
Chlorides	NL	mg/l	Quarterly	Grab
Fluoride	NL	mg/l	Quarterly	Grab
Sodium	NL	mg/l	Quarterly	Grab
Potassium	NL	mg/l	Quarterly	Grab
Sulfate	NL	mg/l	Quarterly	Grab
Total Organic Carbon (TOC)	NL	mg/l	Quarterly	Grab
Temperature	NL	°C	Quarterly	Grab
Dissolved Arsenic	NL	mg/l	Biannually	Grab
Dissolved Barium	NL	mg/l	Biannually	Grab
Dissolved Cadmium	NL	mg/l	Biannually	Grab
Dissolved Copper	NL	mg/l	Biannually	Grab
Dissolved Iron	NL	mg/l	Biannually	Grab
Dissolved Mercury	NL	mg/l	Biannually	Grab
Dissolved Lead	NL	mg/l	Biannually	Grab
Dissolved Nickel	NL	mg/l	Biannually	Grab
Dissolved Manganese	NL	mg/l	Biannually	Grab
Dissolved Selenium	NL	mg/l	Biannually	Grab
Dissolved Silver	NL	mg/l	Biannually	Grab
Dissolved Vanadium	NL	mg/l	Biannually	Grab
Dissolved Zinc	NL	mg/l	Biannually	Grab
Total Petroleum Hydrocarbons (TPH)	NL	mg/l	Quarterly	Grab
Benzene	NL	mg/l	Quarterly	Grab
Ethylbenzene	NL	mg/l	Quarterly	Grab
Toluene	NL	mg/l	Quarterly	Grab
Total Xylenes	NL	mg/l	Quarterly	Grab
Phenol	NL	mg/l	Quarterly	Grab

NL = No Limit: monitor and report
Grab = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

B. Additional Effluent Limitations, Monitoring Requirements, and Instructions

1. Additional Total Residual Chlorine (TRC) Limitations and Monitoring Requirements

   a. Neither free available nor total residual chlorine (TRC) may be discharged from Units 3, 4, 5 and 6 for more than two hours per day, unless the permittee demonstrates to the Department of Environmental Quality (DEQ) that discharge for more than two hours is required for macroinvertebrate control. If permitee is dechlorinating than the two hours requirement is nullified.

   b. Simultaneous multi-unit chlorination is permitted.

2. Quantification Levels

   a. The maximum quantification levels (QLs) shall be as follows:

Characteristic	Quantification Level
Chlorine	0.1 mg/l
Cadmium	0.8 μg/l
Chromium	11.0 μg/l
Copper	7.2 μg/l
Lead	16.0 μg/l
Mercury	1.0 μg/l
Nickel	13.0 μg/l
Selenium	5.0 μg/l
Silver	0.2 μg/l
Zinc	52 μg/l

   b. The permittee may use any approved method which has a QL equal to or lower than the QL listed in B.2.a. above. Except as specified in B.2.d. below, the QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method.

   c. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained.

   d. An appropriate analytical method for metals shall be selected from the following list of EPA methods, or any approved method in 40 CFR Part 136, which will achieve a QL that is less than or equal to the QL specified in B.2.a. above.

Metal	Analytical Methods
Antimony	204.1; 200.7; 204.2; 1639; 1638; 200.8
Arsenic	200.7; 200.9; 200.8; 1632
Barium	208.1; 200.7; 208.2; 200.8
Cadmium	213.1; 200.7; 213.2; 200.9; 200.8; 1638; 1639; 1637; 1640
Chromium	218.1; 200.7; 218.2; 218.3; 200.9; 1639; 200.8
Chromium VI	218.4; 1636
Copper	220.1; 200.7; 220.2; 200.9; 1638; 1640; 200.8
Iron	236.1; 200.7; 236.2
Lead	239.1; 200.7; 239.2; 200.9; 200.8; 1638; 1637; 1640
Manganese	243.1; 200.7; 200.9; 243.2; 200.8
Mercury	200.7; 245.1; 200.8; 1631

Metal	Analytical Methods
Nickel	249.1; 200.7; 249.2; 1639; 200.9; 1638; 200.8; 1640
Selenium	200.7; 270.2; 200.8; 1638; 1639; 200.9
Silver	272.1; 200.7; 200.9; 272.2; 1638; 200.8
Zinc	289.1; 200.7; 1638; 1639; 200.8; 289.2

3. Compliance Reporting Under Part I.A.

   a. *Monthly Average* – Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.B.2. above shall be determined as follows: All data below the test method QL shall be treated as zero. All data equal to or above the QL shall be treated as it is reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, for the month. This arithmetic average shall be reported on the DMR. If all data are less than the QL, a "<[QL]" shall be reported on the DMR, otherwise the average shall be reported as calculated.

   b. *Daily Maximum* -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed above in Part I.B.2. shall be determined as follows: All data below the QL listed in a. above shall be treated as zero. All data equal to or above the QL shall be treated as reported. An arithmetic average of the values shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If the daily maximum is less than the QL, then "<[QL]" shall be reported on the DMR.

C. Schedule of Compliance

1. The permittee shall achieve compliance with the final Total Petroleum Hydrocarbon (TPH) limitation for Outfall 502 (specified in Part I.A.8.) of this permit in accordance with the following schedule:

a. Select engineering firm for design of facilities or submit proposed plan to achieve compliance with the final TPH limit.	By March 13, 2002
b. Report of progress on attainment of final TPH limit.	The progress reports will be due September 13, 2002, September 13, 2003 and September 13, 2004.
c. Achieve compliance with TPH limit.	By September 13, 2005.

2. All progress reports will be submitted in writing to the Department Environmental Quality, the Northern Regional Office (DEQ-NVRO), by the due dates specified above. If the progress reports are not received by the dates specified, the permittee would be considered in noncompliance and remedial actions taken.

D. Toxic Management Program

1. Biological Monitoring

   a. In accordance with the schedule in Part I.D.2. below, the permittee shall conduct the following testing:
      1) Outfall 001/ 002 shall be twice a year (semiannual) acute and chronic toxicity testing.
      2) Outfall 003 shall be annual acute and chronic toxicity testing.
      3) Outfall 004 and 005 shall be quarterly acute and chronic toxicity testing.

b. The permittee shall collect the following toxicity testing samples as:
   1) 24-hour flow proportioned composite samples of final effluent from Outfall 003 and 004
   2) Grab samples from Outfall 001/ 002 and 005. Outfall 001/ 002 will be collected in the 002 outfall pipe below any internal waste stream entering it.

c. The permittee shall conduct the toxicity test with the following organisms and procedures:

   1) The permittee shall conduct acute toxicity test on these outfalls Outfalls 001/ 002 and 003 using *Ceriodaphnia dubia* and chronic toxicity tests using *Pimephales promelas*.
   2) The permittee shall conduct acute and chronic toxicity test on this outfall 004 and 005 using both *Pimephales promelas* and *Ceriodaphnia dubia*.

   The acute multi-dilution No Observed Adverse Effect Concentration (NOAEC) tests to use are:
   Ceriodaphnia dubia: 48-Hour Static test; and
   Pimephales promelas: 48-Hour Static test.
   These acute tests are to conducted using five (5) geometic dilutions of effluent with a minimum of four (4) replicates, with five (5) organisms in each. The NOAEC, as determined by hypotheses testing shall be converted to Acute Toxicity Units (TU_a), where TU_a = 100/NOAEC, and reported on the DMR. The LC_{50} shall also be determined and noted on the submitted report. Tests in which control survival is less than 90% are not acceptable.

   The chronic tests to use are:
   Ceriodaphnia dubia: Chronic 3-Brood Static Renewal Survival and Reproduction Test, and
   Pimephales promelas: Chronic 7-Day Static Renewal Survival and Growth Test.
   These chronic tests shall be conducted in such a manner and at sufficient dilutions (i.e., minimum of five (5) dilutions, geometrically derived) to determine the No Observed Effect Concentration (NOEC) for survival and reproduction or growth. For Outfall 001 /002, 003, and 005 the chronic test dilutions shall be able to determine compliance with a chronic NOEC endpoint of 35% equivalent to a Chronic Toxic Unit (TU_c) of 2.85. For Outfall 004 the chronic test dilutions shall be able to determine compliance with a chronic NOEC endpoint of 17% equivalent to a Chronic Toxic Unit (TU_c) of 5.88. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable and a retest will have to be performed. Express the test NOEC as Chronic Toxic Units (TU_c) for DMR reporting where TU_c = 100/NOEC. Report the LC_{50} at 48 hours and the IC_{25} with the NOEC's in the test report.

   Any retest of a non-acceptable test must be performed during the same time period as the unacceptable test, or within 30 days of receiving the results of the unacceptable test if less than 30 days remain in the test period on the day the results are received by the permittee. Effluent samples shall not be dechlorinated prior to use in toxicity test.

d. The permittee may provided additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR Part 136.3.

e. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of 1.a. above may be discontinued.

f. Use of test methods, protocols, and alternative species other than specified in Part I.D.1. above shall be approved by DEQ-NVRO prior to initiation of testing.

2. <u>Reporting Schedule</u>

a. Annual testing:

Period	*Sampling Period*	*DMR/Report Submission Date*
Annual 1	October 1, 2001 – January 31, 2002	March 10, 2002
Annual 2	June 1, 2002 – September 30, 2002	November 10, 2002
Annual 3	March 1, 2003 – June 30, 2003	August 10, 2003
Annual 4	January 1, 2004 – April 30, 2004	June 10, 2004
Annual 5	February 1, 2005 – March 31, 2005	May 10, 2005

b. Semiannual testing:

Period	*Sampling Period*	*DMR/Report Submission Date*
First Semiannual	July 1, 2003 – December 31, 2003	January 10, 2004
Second Semiannual	January 1, 2004 – June 30, 2004	July 10, 2004
Third Semiannual	July 1, 2004 – December 31, 2004	January 10, 2005
Fourth Semiannual	January 1, 2005 – June 30, 2005	July 10, 2005
Fifth Semiannual	July 1, 2005 – December 31, 2005	January 10, 2006
Sixth Semiannual	January 1, 2006 – June 30, 2006	July 10, 2006

c. Quarterly testing:

Period	*Sampling Period*	*DMR/Report Submission Date*
First Quarterly	July 1, 2004 – Sept. 30, 2004	October 10, 2004
Second Quarterly	October 1, 2004 – December 31, 2004	January 10, 2005
Third Quarterly	January 1, 2005 – March 31, 2005	April 10, 2005
Fourth Quarterly	April 1, 2005 – June 30, 2005	July 10, 2005
Fifth Quarterly	July 1, 2005 – Sept. 30, 2005	October 10, 2005
Sixth Quarterly	October 1, 2005 – December 31, 2005	January 10, 2006
Seventh Quarterly	January 1, 2006 – March 31, 2006	April 10, 2006
Eighth Quarterly	April 1, 2006 – June 30, 2006	July 10, 2006

3. Additional Special Conditions for TMP monitoring.

The permittee may demonstrate that the composition of the discharges at outfalls 003 and 004 are similar using the definition of 24-hour composite as described in Part I.A. and the below definition of 24-hour composite. Upon approval by DEQ-NVRO the below definition may be used for the collection of composite sample.

The composite sample shall be a combination of individual samples, minimum of four samples, taken proportional to flow over a 24-hour period. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period.

E. Other Requirements

1. Operation and Maintenance Manual Requirement

Within 90 days of the modification date of this permit, the permittee shall submit for approval an a revised Operations and Maintenance (O&M) Manual or a statement confirming the accuracy and completeness of the current O&M Manual to the DEQ, Northern Virginia Regional Office.

The permittee shall maintain a current and approved O&M Manual for the treatment works. This manual shall detail the practices and procedures, which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items:

a. Treatment works design, treatment works operation, routine preventative maintenance of units within the treatment system, critical spare parts inventory and record keeping;
b. Techniques to be employed in the collection, preservation and analysis of effluent samples;
c. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants characterized that will prevent these materials from reaching state waters; and
d. A plan for the management and/or disposal of waste solids, residues, /Residue/Sludge Management and Disposal Plan. [For industrial facilities only.]
e. Discussion of Best Management Practices. [use only if applicable]

The permittee shall operate the treatment works in accordance with the approved O & M Manual. Non-compliance with the O&M Manual shall be deemed a violation of the permit. Future changes to the treatment works and practices and procedures followed by the permittee must be addressed by the submittal of a revised O&M Manual to DEQ for approval within 90 days of the changes.

2. Notification Levels

The permittee shall notify the Department as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
   1) One hundred micrograms per liter;
   2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony;
   3) Five times the maximum concentration value reported for that pollutant in the permit application; or
   4) The level established by the Board.
b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
   1) Five hundred micrograms per liter;
   2) One milligram per liter for antimony;
   3) Ten times the maximum concentration value reported for that pollutant in the permit application; or
   4) The level established by the Board.

3. Materials Handling/Storage

Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

4. Prohibition of Chemical Additives

The permittee shall notify DEQ-NVRO, in writing at least thirty (30) days prior to the use of chemical additives in the non-contact cooling water. The written notice shall contain the following:

a. Names of the proposed chemical additives to be used and corresponding copies of their Material Safety Data Sheets (MSDS).
b. Proposed schedule of chemical additive use; and
c. Description of any proposed wastewater treatment and/or retention to be provided during the use of chemical additives.

Should the use of chemical additives significantly alter the characteristics of the non-contact cooling water discharge or if the use of chemical additives becomes persistent or continuous, this permit may be modified or alternatively, revoked and reissued to include appropriate limitations or conditions.

5. Polychlorinated Biphenyl
There shall be no discharge of Polychlorinated Biphenyl (PCBs) compounds from this source in amounts equal to or greater than detectable by EPA test methods specified in 40 CFR Part 136, Guidelines for Establishing Test Procedures for the Analysis of Pollutants.

6. Water Quality Criteria Reopener
Should effluent monitoring indicate the need for any water quality-based limitations, this permit may be modified or alternatively revoked and reissued to incorporate appropriate limitations.

7. Water Quality Criteria Monitoring
The permittee shall monitor the effluent at Outfall 004 and 005 for the substances noted in Attachment A of the permit according to the indicated analysis number, quantification level, sample type and frequency. Monitoring shall be performed semi-annual from the modification date and the first sample shall be collected between July 1, 2004 and December 31, 2004. Using Attachment A as the reporting form, the data shall be submited no later than two months after sampling occurs. Monitoring and analysis shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved method. Alternative EPA approved methods other than those specified in Attachment A may be used with prior notification to and approval from DEQ-NVRO. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

8. 126 Priority Pollutants for Outfalls 201 and 202
Any and all 126 priority pollutants listed in Appendix A to 40 CFR 423, contained in the chemicals added for cooling tower maintenance, shall be non-detectable in the blowdown discharge water. Sampling these pollutants (except total chromium and total zinc) from the discharge point shall be conducted annually when there is a discharge.

This monitoring requirement may be waived if the permittee submits engineering calculations which demonstrate that the regulated pollutants are not detectable in the final discharge by the analytical methods in 40 CFR Part 136.

The permittee shall notify DEQ-NVRO of any process change in the cooling tower, which may affect the quality of the associated discharge water.

9. In-stream Monitoring
Monitoring of the thermal mixing zone shall take place twice a year during the months of July and February. The monitoring results shall be presented as a temperature plot with 3 degree centigrade insotherms and will be taken as near to full plant operating conditions as reasonably possible. The results of the July monitoring shall be submitted on or before October 31 of each year. The results of the February monitoring shall be submitted on or before May 31 of each year.

The permittee shall comply with the State Water Quality Criteria outside of the approved mixing zone. For the purposes of this permit, the approved mixing zone is defined as the part of Quantico Creek from the established border between the Commonwealth of Virginia and the State of Maryland, upstream approximately 5.2 kilometers (based on centerline measurement; bounded vertically by the extreme high water mark and the bottom of the creek, including all tidal marshlands, tidal mud flats, coves, inlets, and

embayment within the defined area). A map showing the approved mixing zone is incorporated into this permit as Attachment C.

10. Debris Collection
All debris collected on the intake trash racks will not be returned to the waterway.

11. Solids in Ash Pond D
a. Ash Pond D may be used as a repository for dredge spoil material and residuals removed from facilities, areas, and systems related to operation and maintenance of Possum Point Power Station. These materials and residuals include :
1) Solids from VPDES treatment ponds and storm water management facilities;
2) Solids from old/closed VPDES treatment ponds (Ash Pond A, B and C).
3) Solids from station floor drains, lift stations, and sumps;
4) Water treatment plant filter cake and cooling tower basin sludge;
5) Soil and fines from station beautification and land restoration projects, including the coal pile area, deicing grit, abrasives, and inert cleanup debris such as surplus soil, rock, and gravel;
6) Sand/silt/sediment in the Potomac River and Quantico Creek within and adjacent to cooling water intake structures, outfall structures, oil barge berths, shoreline revetments, boat ramp, transportation structures, and navigation-related channels and structures.

b. Ash Pond D may be used as a repository for dredge spoil material that is not related to operations at Possum Point Power Station provided the material originated from the Potomac River Basin meeting the definition of state waters in Virginia. The following guideline must be followed:

1) Dominion shall provide written notice to the Department of Environmental Quality-Northern Virginia Regional Office (DEQ-NVRO) at least 30 days prior to the placement of any dredge spoil material in Ash Pond D. This notice shall include as a minimum the following information:

a) Sampling tests and laboratory results (See Part I.E.11.c.),
b) Copies of all permits or regulatory authorizations required for the project,
c) Project schedule dates,
d) Method of placement,
e) Original location of material,
f) Type and volume of material,
g) Name, address, and telephone number of dredging contractor (for placement of dredge spoil material) or station contact (for placement of station residuals).

2) Specific approval by the DEQ-NVRO is not required for a placement project but the DEQ-NVRO shall have the right to request additional information or halt any noticed activity. If the placement project is not halted by the DEQ-NVRO within 30 days of receipt of the above notice, the project is deemed authorized.

c. Sampling Requirements.
1) A "sample" is defined as a Core Dredge sample, which will be a composite of dredge material from the river, stream or lake bottom to the depth of the intended dredge.
2) Number of Samples taken
a) >300,000 Cubic Yards of Material
For every 100,000 cubic yards of material a representative samples shall be collected. These samples shall best represent the materials being placed in Ash Pond D from the dredge area.

b) <300,000 Cubic Yards, but >50,000 Cubic Yards of Material
There shall be three representative samples of dredge area. These samples shall best represent the materials being placed in Ash Pond D from the dredge area.

c) <50,000 Cubic Yards, but >1,000 Cubic Yards of Material
There shall be two representative samples of dredge area. These samples shall best represent the materials being placed in Ash Pond D from the dredge area.

d) <1,000 Cubic Yards of Material
No sampling requirement will apply to projects involving the placement of material less than 1,000 cubic yards with approval from Dominion (Virginia Power).

3) All parameters limited in Attachment B shall be sampled. The permittee shall use Attachment B has a reporting form which will be submitted to DEQ-NVRO at least 30 days prior to placement in Ash Pond D. If the measured constituents in the sample exceed any respective threshold levels listed in Attachment B, the material shall not be placed in Ash Pond D.
4) Materials and residuals related to routine station operations identified in Part I. E. a. shall be tested prior to initial placement under this protocol and if station processes have not materially changed, further testing is not required.
5) The above sampling requirements for any placement activity may be waived in the event of declared public emergency conditions or by consent of the DEQ-NVRO.

d. The placement of any material in Ash Pond D shall not be incompatible with the Ash Pond D liner system or cause a violation of the VPDES permit requirements applicable to Outfall 005 at Ash Pond E.

e. Dominion shall retain records relating to the placement event for minimum of three years and comply with the requirements of Part II.A.B.2 of the subject permit.

f. Dredging must be preformed in accordance with all Federal and Virginia laws and regulations.

F. Groundwater Special Conditions

1. Groundwater Monitoring Requirements
   a. As identified in Part I.A.9.a., 9.b. and 9.c. of this permit, groundwater monitoring is required from observation wells adjacent to Ash Pond D & E and the Oily Waste Pond as stated in the Groundwater Monitoring Plan approved by DEQ-NVRO.
   b. Changes to the Groundwater Monitoring Plan may occur with the approval from DEQ-NVRO.
   c. Metals samples shall be filtered in the field.

2. Groundwater Reporting
   a. The Groundwater Annual Report will include the annual and all quarterly sampling results for that year.
   b. The Groundwater Annual Report shall include a review of the groundwater quality on the basis of background quality, Water Quality Standards, and statistical deviation thereof, as applicable with the Anti-degradation Policy for Groundwater.
   c. This annual report shall be submitted to DEQ-NVRO by April 30th of each year.

3. Site Characterization Report
   a. Ash Pond D and Ash Pond E
      1) The permittee shall submit a Site Characterization Report to DEQ-NVRO concerning the groundwater contamination around Ash Pond D and Ash Pond E.
      2) The permittee shall submit the report no later September 13, 2004.
      3) The report shall include, at a minimum, an assessment of the following:

a) The spatial extent and severity of the contamination depicted by isoconcentration maps.
b) The cause of the contamination.
c) Identify both human health and environmental receptors
d) Assess risk to each receptor.
e) Analysis of remediation alternatives.

b. Oily Waste Pond
1) If the ground water monitoring data shows contamination from the oily waste pond, as reported in the annual reports, then a Site Characterization Report may be required by DEQ-NVRO.
2) The permittee shall submit the Site Characterization Report no later than three years from the following the notice from DEQ-NVRO.
3) The report shall include all the same as stated in Part I.F.3.a.3.

4. Corrective Action Plan
a. Following a review and approval of Site Characterization Report, a Corrective Action Plan may be required by DEQ-NVRO. This Corrective Action Plan will be due within 180 days upon notification by DEQ-NVRO.
b. The permittee shall put into practice the Corrective Action Plan within 180 days after it has been approved by DEQ-NVRO.

G. Storm Water Management

1. General Storm Water Pollution Prevention Plan Requirements

The previous permit required a storm water pollution prevention plan. Any necessary revisions to storm water pollution prevention plans shall be prepared in accordance with good engineering practices. The plan shall identify potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the plan shall describe and ensure the implementation of practices that are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. Permittee must implement the provisions of the storm water pollution prevention plan as a condition of this permit.

The storm water pollution prevention plan requirements of this permit may be fulfilled by incorporating by reference other plans or documents such as an erosion and sediment control plan, a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act or best management practices (BMP) programs otherwise required for the facility provided that the incorporated plan meets or exceeds the plan requirements of Part I.G.1.d.. If an erosion and sediment control plan is being incorporated by reference, it shall have been approved by the locality in which the activity is to occur or by another appropriate plan approving authority authorized under the Virginia Erosion and Sediment Control Regulation 4 VAC 50-30-10 et seq. All plans incorporated by reference into the storm water pollution prevention plan become enforceable under this permit.

a. **Deadlines for Plan Preparation and Compliance.**
The storm water pollution prevention plan which was previously prepared and implemented shall be complied with, and continually updated as needed in accordance with the following Part I.G.1. sections.

b. **Signature and Plan Review.**
1) *Signature/Location.* The plan shall be signed in accordance with Part II, K., and be retained onsite at the facility that generates the storm water discharge in accordance with Part II, B.2. For inactive facilities, the plan may be kept at the nearest office of the permittee.

2) *Availability.* The permittee shall make the storm water pollution prevention plan, annual site compliance inspection report, or other information available to DEQ-NVRO upon request.

3) *Required Modifications.* The Director, or authorized representative, may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this permit. Such notification shall identify those provisions of the permit that are not being met by the plan, and identify which provisions of the plan requires modifications in order to meet the minimum requirements of this permit. Within 60-days of such notification from the Director, (or as otherwise provided by the Director), or authorized representative, the permittee shall make the required changes to the plan and shall submit to the Director a written certification that the requested changes have been made.

c. **Keeping Plans Current.**
The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance, that has a significant effect on the potential for the discharge of pollutants to surface waters or if the storm water pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under Part I.G.1.d. of this permit, those pollutants identified in Part I.G.4., or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. New owners shall review the existing plan and make appropriate changes. Amendments to the plan may be reviewed by the DEQ-NVRO in the same manner as Part I.G.1.b.

d. **Contents of the Plan.**
The contents of the pollution prevention plan shall comply with the requirements listed below and those in Part I.G.3. and 4. These requirements are cumulative. The plan shall include, at a minimum, the following items.

1) *Pollution Prevention Team.* The plan shall identify a specific individual or individuals within the facility organization as members of a storm water Pollution Prevention Team that are responsible for developing the storm water pollution prevention plan and assisting the facility or plant manager in its implementation, maintenance, and revision. The plan shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's storm water pollution prevention plan.

2) *Description of Potential Pollutant Sources.* The plan shall provide a description of potential sources that may reasonably be expected to add significant amounts of pollutants to storm water discharges or that may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. The plan shall identify all activities and significant materials that may potentially be significant pollutant sources. The plan shall include, at a minimum:

a) *Drainage.* A site map indicating an outline of the portions of the drainage area of each storm water outfall that are within the facility boundaries, each existing structural control measure to reduce pollutants in storm water runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under Part I.G.1.d.2.c) have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations, vehicle and equipment maintenance and/or cleaning areas, loading/unloading areas, locations used for the treatment, storage or disposal of wastes and waste waters, locations used for the treatment, filtration, or storage of water supplies, liquid storage tanks, processing areas, and storage areas. The map must indicate the outfall locations and the types of discharges contained in the drainage areas of the outfalls; and for each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing

significant amounts of pollutants, a prediction of the direction of flow, and an identification of the types of pollutants that are likely to be present in storm water discharges associated with industrial activity. Factors to consider include the toxicity of chemical; quantity of chemicals used, produced or discharged; the likelihood of contact with storm water; and history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified;

b) *Inventory of Exposed Materials.* An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of 3-years prior to the date of submission of an application to be covered under this permit and the present; method and location of onsite storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff between the time of 3-years prior to the date of the submission of an application to be covered under this permit and the present; the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives;

c) *Spills and Leaks.* A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility within the 3-year period immediately prior to the date of submission of an application to be covered under this permit. Such list shall be updated as appropriate during the term of the permit;

d) *Sampling Data.* A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility, including a summary of sampling data collected during the term of this permit; and

e) *Risk Identification and Summary of Potential Pollutant Sources.* A narrative description of the potential pollutant sources from the following activities: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and onsite waste disposal practices, and wastewater treatment activities to include sludge drying, storage, application or disposal activities. The description shall specifically list any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g., biochemical oxygen demand, total suspended solids, etc.) of concern shall be identified.

3) *Measures and Controls.* The facility covered by this permit shall develop a description of storm water management controls appropriate for the facility and implement such controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls.

a) *Good Housekeeping.* Good housekeeping requires the clean and orderly maintenance of areas that may contribute pollutants to storm water discharges. The plan shall describe procedures performed to minimize contact of materials with storm water runoff. Particular attention should be paid to areas where raw materials are stockpiled, material handling areas, storage areas, liquid storage tanks, material handling areas, and loading/unloading areas.

(1) *Fugitive Dust Emissions.* The plan must describe measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize offsite tracking of coal dust. To prevent offsite tracking the facility may consider specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.

(2) *Delivery Vehicles.* The plan must describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee should consider the following:
   i. Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and
   ii. Develop procedures to deal with leakage or spillage from vehicles or containers, and ensure that proper protective measures are available for personnel and environment.

(3) *Fuel Oil Unloading Areas.* The plan must describe measures that prevent or minimize contamination of storm water runoff from fuel oil unloading areas. At a minimum the permittee must consider using the following measures, or an equivalent:
   i. Use containment curbs in unloading areas;
   ii. During deliveries station personnel familiar with spill prevention and response procedures must be present to ensure that any leaks or spills are immediately contained and cleaned up; and
   iii. Use spill and overflow protection (drip pans, drip diapers, and/or other containment devices shall be placed beneath fuel oil connectors to contain any spillage that may occur during deliveries or due to leaks at such connectors).

(4) *Chemical Loading/Unloading Areas.* The plan must describe measures that prevent or minimize the contamination of storm water runoff from chemical loading/unloading areas. Where practicable, chemical loading/unloading areas should be covered, and chemicals should be stored indoors. At a minimum the permittee must consider using the following measures or an equivalent:
   i. Use containment curbs at chemical loading/unloading areas to contain spills; and
   ii. During deliveries station personnel familiar with spill prevention and response procedures must be present to ensure that any leaks or spills are immediately contained and cleaned up.

(5) *Miscellaneous Loading/Unloading Areas.* The plan must describe measures that prevent or minimizes the contamination of storm water runoff from loading and unloading areas. The plan may consider covering the loading area, minimizing storm water runon to the loading area by grading, berming, or curbing the area around the loading area to direct storm water away from the area, or locate the loading/unloading equipment and vehicles so that leaks can be contained in existing containment and flow diversion systems.

(6) *Liquid Storage Tanks.* The plan must describe measures that prevent or minimize contamination of storm water runoff from above ground liquid storage tanks. At a minimum the permittee must consider employing the following measures or an equivalent:
   i. Use protective guards around tanks;
   ii. Use containment curbs;

iii. Use spill and overflow protection (drip pans, drip diapers, and/or other containment devices shall be placed beneath chemical connectors to contain any spillage that may occur during deliveries or due to leaks at such connectors); and
iv. Use dry cleanup methods.

(7) *Large Bulk Fuel Storage Tanks.* The plan must describe measures that prevent or minimize contamination of storm water runoff from liquid storage tanks. At a minimum the permittee must consider employing the following measures, or an equivalent:
i. Comply with applicable State and Federal laws, including Spill Prevention Control and Countermeasures (SPCC); and
ii. Containment berms.

(8) The plan must describe measures to reduce the potential for an oil spill, or a chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all above ground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(9) *Oil Bearing Equipment in Switchyards.* The plan must describe measures to reduce the potential for storm water contamination from oil bearing equipment in switchyard areas. The permittee may consider level grades and gravel surfaces to retard flows and limit the spread of spills; collection of storm water runoff in perimeter ditches.

(10) *Residue Hauling Vehicles.* All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the body or container. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds must be repaired as soon as practicable.

(11) *Ash Loading Areas.* Plant procedures shall be established to reduce and/or control the tracking of ash or residue from ash loading areas for example, where practicable, requirements to clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water.

(12) *Areas Adjacent to Disposal Ponds or Landfills.* The plan must describe measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee must develop procedures to:
i. Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and
ii. Reduce ash residue on exit roads leading into and out of residue handling areas.

(13) *Landfills, Scrapyards, Surface Impoundments, Open Dumps, and General Refuse Sites.* The plan must address landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(14) *Maintenance Activities.* For vehicle maintenance activities performed on the plant site, the plan must describe measures that prevent or minimize contamination of the storm water runoff from all areas used for vehicle and equipment maintenance. The permittee shall consider performing all maintenance activities indoors, using drip pans, maintaining an organized inventory of materials used in the shop, draining all parts of fluids prior to disposal, prohibiting wet clean up practices where the practices would

result in the discharge of pollutants to storm water drainage systems, using dry cleanup methods, collecting the storm water runoff from the maintenance area and providing treatment or recycling, minimizing runon/runoff of storm water areas or other equivalent measures.

(15) *Material Storage Areas.* The plan must describe measures that prevent or minimize contamination of storm water from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay down areas). The permittee may consider flat yard grades, runoff collection in graded swales or ditches, erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins), covering lay down areas, storing the materials indoors, covering the material with a temporary covering made of polyethylene, polyurethane, polypropylene, or hypalon. Storm water runon may be minimized by constructing an enclosure or building a berm around the area.

b) *Preventive Maintenance.* A preventive maintenance program shall involve: timely inspection and maintenance of storm water management devices (e.g., cleaning oil/water separators, catch basins); inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures which could result in discharges of pollutants to surface waters; and appropriate maintenance of such equipment and systems.

c) *Spill Prevention and Response Procedures.* Areas where potential spills that can contribute pollutants to storm water discharges can occur, and their accompanying drainage points, shall be identified clearly in the storm water pollution prevention plan. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to personnel.

d) *Inspections.* Facility personnel who are familiar with the industrial activity, the BMPs and the storm water pollution prevention plan shall be identified to inspect designated equipment and areas of the facility. The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained.

e) *Employee Training.* Employee training programs shall inform personnel responsible for implementing activities identified in the storm water pollution prevention plan or otherwise responsible for storm water management at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. The pollution prevention plan shall identify periodic dates for such training.

f) *Recordkeeping and Internal Reporting Procedures.* A description of incidents (such as spills, or other discharges), along with other information describing the quality and quantity of storm water discharges shall be included in the plan. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.

g) *Sediment and Erosion Control.* The plan shall identify areas that, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.

h) *Management of Runoff.* The plan shall contain a narrative consideration of the appropriateness of traditional storm water management practices (practices other than those that control the generation or source(s) of pollutants) used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The plan shall provide that measures that the permittee determines to be reasonable and appropriate shall be implemented and maintained. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices; reuse of collected storm water (such as for a process or as an irrigation source); inlet controls (such as oil/water separators); snow management activities; infiltration devices and wet detention/retention devices; or other equivalent measures.

4) *Comprehensive Site Compliance Evaluation.* Personnel who are familiar with the industrial activity, the BMPs and the storm water pollution prevention plan shall conduct site compliance evaluations at appropriate intervals specified in the plan, but in no case less than once a year. Such evaluations shall include the following:

a) Areas contributing to a storm water discharge associated with industrial activity such as material storage, handling, and disposal activities shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made;

b) Based on the results of the evaluation, the description of potential pollutant sources identified in the plan in accordance with Part I.G.1.d.2) and pollution prevention measures and controls identified in the plan in accordance with Part I.G.1.d.3) shall be revised as appropriate within 2 weeks of such evaluation and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than 12 weeks after the evaluation;

c) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with Part I.G.1.d.4)b) shall be made and retained as part of the storm water pollution prevention plan for at least 3-years from the date of the evaluation. The report shall identify any incidents of noncompliance. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the storm water pollution prevention plan and this permit. The report shall be signed in accordance with Part II.K.; and

d) Where compliance evaluation schedules overlap with inspections required under Part I.F.1.d.3)d), the compliance evaluation may be conducted in place of one such inspection.

2. <u>General Storm Water Conditions</u>

a. **Quarterly Visual Examination of Storm Water Quality.** Unless another more frequent schedule is established elsewhere within this permit, the permittee shall perform and document a visual examination of a storm water discharge associated with industrial activity from each outfall. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December.

1) Examination shall be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. The examination shall document observations of color, odor, clarity, floating solids, settle solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well-lit area. No analytical tests are required to be performed on samples. All such samples shall e collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previous measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term.

2) Visual examination reports must be maintained onsite with the pollution prevention plan. The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snowmelt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settle solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution) and probable sources of any observed storm water contamination.

3) When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may collect a sample of effluent of one of such outfalls and report that the examination data also applies to the substantially identical outfall(s) provided that the permittee includes in the storm water pollution prevention plan a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40-65 percent), or high (above 65 percent) shall be provided in the plan.

4) When the permittee is unable to conduct the visual examination due to adverse climatic conditions, the permittee must document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

b. **Prohibition of Non-storm Water Discharges.** Except as provided in this paragraph or elsewhere in this permit, all storm water discharges covered by this permit shall be composed entirely of storm water. The following non-storm water discharges are authorized by this permit provided the non-storm water component of the discharge is in compliance with this permit: discharges from fire fighting activities; fire hydrant flushings; potable water sources including waterline flushings;

uncontaminated compressor condensate; irrigation drainage; lawn watering; routine external building wash down that does not use detergents or other compounds; pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; uncontaminated springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials such as solvents

All other non-storm water discharges must be addressed within and in compliance with this VPDES permit.

c. **Releases of Hazardous Substances or Oil in Excess of Reportable Quantities.** The discharge of hazardous substances or oil in the storm water discharge(s) from a facility shall be prevented or minimized in accordance with the applicable storm water pollution prevention plan for the facility. This permit does not authorize the discharge of hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110 (1998), 40 CFR Part 117 (1998) or 40 CFR Part 302 (1998) occurs during a 24-hour period, the permittee is required to notify the DEQ-NVRO in accordance with the requirements of Part II, G. of this permit as soon as he or she has knowledge of the discharge. In addition, the storm water pollution prevention plan required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate. This permit does not relieve the permittee of the reporting requirements of 40 CFR Part 110 (1998), 40 CFR Part 117 (1998), and 40 CFR Part 302 (1998) or §62.1-44.34:19 of the Code of Virginia.

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY MONITORING
ATTACHMENT A, PAGE 1 of 6

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. VA0002071

ADDRESS: 19000 Possum Point Road, Dumfries, Virginia OUTFALL NO. 004

DEQ Parameter No.	EPA Parameter No.	Parameter	EPA Analysis No.	Quantification Level(1) (µg/L)	Reporting Results (1) (µg/L)	Sample Type(2)	Sample Frequency(3)	Specific Target Value(4) (µg/L)
METALS								
178	01095	Antimony (Dissolved)	(5)	(5)		G	1/6 M	NA
438	01000	Arsenic III (Dissolved)	(5)	(5)		G	1/6 M	288
439	01005	Barium (Dissolved)	(5)	(5)		G	1/6 M	NA
440	01025	Cadmium (Dissolved)	(5)	(5)		G	1/6 M	3.78
441	80357	Chromium III (Dissolved)	(5)	(5)		G	1/6 M	1590
231	01220	Chromium VI (Dissolved)	(5)	(5)		G	1/6 M	12.8
442	01040	Copper (Dissolved)	(5)	(5)		G	1/6 M	16.6
405	01049	Lead (Dissolved)	(5)	(5)		G	1/6 M	117
444	71900	Mercury (Dissolved)	(5)	(5)		G	1/6 M	1.0
445	01065	Nickel (Dissolved)	(5)	(5)		G	1/6 M	168
446	01145	Selenium (Dissolved)	(5)	(5)		G	1/6 M	16
447	01075	Silver (Dissolved)	(5)	(5)		G	1/6 M	2.2
		Thallium (Dissolved)	(5)	(5)		G	1/6 M	NA
448	01090	Zinc (Dissolved)	(5)	(5)		G	1/6 M	107
137	00900	Hardness (as mg/L $CaCO_3$)	(6)	(7)	mg/L	G	1/6 M	N/A
PESTICIDES / PCB'S								
332	39330	Aldrin	608	0.05		G or C	1/6 M	N/A
333	39350	Chlordane	608	0.2		G or C	1/6 M	N/A
334	77969	Chlorpyrifos (Dursban)	622	(7)		G or C	1/6 M	N/A
-	-	DDD	608	0.1		G or C	1/6 M	N/A
-	-	DDE	608	0.1		G or C	1/6 M	N/A
335	39370	DDT	608	0.1		G or C	1/6 M	N/A
336	39560	Demeton	(6)	(7)		G or C	1/6 M	N/A
337	39380	Dieldrin	608	0.1		G or C	1/6 M	N/A
746		Alpha-Endosulfan	608	0.1		G or C	1/6 M	N/A
640		Beta-Endosulfan	608	0.1		G or C	1/6 M	N/A
617		Endosulfan Sulfate	(6)	(7)		G or C	1/6 M	N/A
339	39390	Endrin	608	0.1		G or C	1/6 M	N/A

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. VA0002071

ADDRESS: 19000 Possum Point Road, Dumfries, Virginia OUTFALL NO. 004

DEQ Parameter No.	EPA Parameter No.	Parameter	EPA Analysis No.	Quantification Level(1) (µg/L)	Reporting Results (1) (µg/L)	Sample Type(2)	Sample Frequency(3)	Specific Target Value(4) (µg/L)
--	--	Endrin Aldehyde	(6)	(7)		G or C	1/6 M	N/A
340	39580	Guthion	622	(7)		G or C	1/6 M	N/A
341	39410	Heptachlor	608	0.05		G or C	1/6 M	N/A
--	--	Heptachlor Epoxide	(6)	(7)		G or C	1/6 M	N/A
342	77835	Hexachlorocyclohexane (Lindane)	608	0.05		G or C	1/6 M	N/A
--	--	Kepone	(6)	(7)		G or C	1/6 M	N/A
343	39530	Malathion	(6)	(7)		G or C	1/6 M	N/A
344	39480	Methoxychlor	(6)	(7)		G or C	1/6 M	N/A
345	39755	Mirex	(6)	(7)		G or C	1/6 M	N/A
346	39540	Parathion	(6)	(7)		G or C	1/6 M	N/A
--	--	Total PCB	(6)	(7)		G or C	1/6 M	NA
641	--	PCB-1242	608	1.0		G or C	1/6 M	N/A
642	--	PCB-1254	608	1.0		G or C	1/6 M	N/A
643	--	PCB-1221	608	1.0		G or C	1/6 M	N/A
644	--	PCB-1232	608	1.0		G or C	1/6 M	N/A
645	--	PCB-1248	608	1.0		G or C	1/6 M	N/A
618	39508	PCB-1260	608	1.0		G or C	1/6 M	N/A
646	--	PCB-1016	608	1.0		G or C	1/6 M	N/A
349	39400	Toxaphene	608	5.0		G or C	1/6 M	N/A
		BASE NEUTRAL						
273	--	Acenaphthene	625	10.0		G or C	1/6 M	N/A
275	34222	Anthracene	625	10.0		G or C	1/6 M	N/A
--	--	Benzidine	(6)	(7)		G or C	1/6 M	N/A
276	34526	Benzo(a) anthracene	625	10.0		G or C	1/6 M	N/A
648	--	Benzo(b) fluoranthene (3,4-Bensofluoranthene)	625	10.0		G or C	1/6 M	N/A
278	34242	Benzo(k) fluoranthene	625	10.0		G or C	1/6 M	N/A
277	34247	Benzo(a)pyrene	625	10.0		G or C	1/6 M	N/A
--	--	Bis 2-Chloroethyl Ether	(6)	(7)		G or C	1/6 M	N/A
279	--	Bis 2-Chloroiso-Propyl Ether	(6)	(7)		G or C	1/6 M	N/A

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. VA0002071

ADDRESS: 19000 Possum Point Road, Dumfries, Virginia OUTFALL NO. 004

DEQ Parameter No.	EPA Parameter No.	Parameter	EPA Analysis No.	Quantification Level(1) (µg/L)	Reporting Results (1) (µg/L)	Sample Type(2)	Sample Frequency(3)	Specific Target Value(4) (µg/L)
486	--	Butyl Benzyl Phthalate	625	10.0		G or C	1/6 M	N/A
--	--	2-Chloronaphthalene	(6)	(7)		G or C	1/6 M	NA
282	34320	Chrysene	625	10.0		G or C	1/6 M	N/A
654	--	Dibenz(a,h) anthracene	625	20.0		G or C	1/6 M	N/A
206	--	Dibutyl phthalate	625	10.0		G or C	1/6 M	N/A
259	34536	1,2-Dichlorobenzene	625	10.0		G or C	1/6 M	N/A
264	34566	1,3-Dichlorobenzene	625	10.0		G or C	1/6 M	N/A
266	34571	1,4-Dichlorobenzene	625	10.0		G or C	1/6 M	N/A
527	--	3,3-Dichlorobenzidine	(6)	(7)		G or C	1/6 M	N/A
285	--	Diethyl phthalate	625	10.0		G or C	1/6 M	N/A
170	--	Di-2-Ethylhexyl Phthalate	625	10.0		G or C	1/6 M	N/A
286	--	Dimethyl Phthalate	(6)	(7)		G or C	1/6 M	N/A
239	34611	2,4-Dinitrotoluene	625	10.0		G or C	1/6 M	N/A
535	--	1,2-Dihenylhydrazine	(6)	(7)		G or C	1/6 M	N/A
287	34376	Fluoranthene	625	10.0		G or C	1/6 M	N/A
288	34381	Fluorene	625	10.0		G or C	1/6 M	N/A
289	--	Hexachlorobenzene	(6)	(7)		G or C	1/6 M	N/A
290	--	Hexachlorobutadiene	(6)	(7)		G or C	1/6 M	N/A
538	--	Hexachlorocyclopentadiene	(6)	(7)		G or C	1/6 M	N/A
291	--	Hexachloroethane	(6)	(7)		G or C	1/6 M	N/A
651	--	Indeno(1,2,3-cd) pyrene	625	20.0		G or C	1/6 M	N/A
650	--	Isophorone	625	10.0		G or C	1/6 M	N/A
293	34696	Naphthalene	625	10.0		G or C	1/6 M	N/A
294	--	Nitrobenzene	625	10.0		G or C	1/6 M	N/A
573	--	N-Nitrosodimethlamine	(6)	(7)		G or C	1/6 M	N/A
574	--	N-Nitrosodiphenylamine	(6)	(7)		G or C	1/6 M	N/A
575	--	N-Nitrosodi-n-proplyamine	(6)	(7)		G or C	1/6 M	N/A
296	34469	Pyrene	625	10.0		G or C	1/6 M	N/A
601	--	1,2,4 Trichlorobenzene	625	10.0		G or C	1/6 M	N/A

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DEQ Parameter No.	EPA Parameter No.	Parameter	EPA Analysis No.	Quantification Level(1) (µg/L)	Reporting Results (1) (µg/L)	Sample Type(2)	Sample Frequency(3)	Specific Target Value(4) (µg/L)
VOLATILES								
171		Acrolein	(6)	(7)		G	1/6 M	NA
204		Acrylonitrile (Vinyl cyanide)	(6)	(7)		G	1/6 M	NA
216	34030	Benzene	624	10.0		G	1/6 M	N/A
484	32104	Bromoform	624	10.0		G	1/6 M	N/A
236	32102	Carbon Tetrachloride	624	10.0		G	1/6 M	N/A
653	--	Chlorobenzene	624	50.0		G	1/6 M	NA
652	--	Chlorodibromomethane	624	10.0		G	1/6 M	N/A
223	32106	Chloroform	624	10.0		G	1/6 M	N/A
649	--	Dichloromethane (Methylene chloride)	624	20.0		G	1/6 M	N/A
244	79603	Dichlorobromomethane	624	20.0		G	1/6 M	N/A
260	34531	1,2-Dichloroethane	624	10.0		G	1/6 M	N/A
258	--	1,1-Dichloroethylene	624	10.0		G	1/6 M	N/A
262	--	Trans 1,2-Dichloroethylene	(6)	(7)		G	1/6 M	N/A
261	--	1,2-Dichloropropane	(6)	(7)		G	1/6 M	N/A
265	--	1,3-Dichloropropene (1,3-Dichlorpropylene)	(6)	(7)		G	1/6 M	N/A
172	34371	Ethylbenzene	624	10.0		G	1/6 M	N/A
--	--	Methyl Bromide	(6)	(7)		G	1/6 M	N/A
220	34475	Tetrachloroethylene	624	10.0		G	1/6 M	N/A
222	34010	Toluene	624	10.0		G	1/6 M	N/A
596	--	1,1,2,2-Tetrachloroethane	(6)	(7)		G	1/6 M	N/A
155	39180	Trichloroethylene	624	10.0		G	1/6 M	N/A
173	39175	Vinyl Chloride	624	10.0		G	1/6 M	N/A
ACIDS EXTRACTABLES								
267	--	2-Chlorophenol	625	10.0		G or C	1/6 M	N/A
268	--	2,4 Dichlorophenol	625	10.0		G or C	1/6 M	N/A
269	--	2,4 Dimethylphenol	625	10.0		G or C	1/6 M	N/A
--	--	2-Methyl-2,4-Dintrophenol (4,6-Dinitro-O-Cresol)	(6)	(7)		G or C	1/6 M	N/A
270	--	2,4-Dinitrophenol	(6)	(7)		G or C	1/6 M	N/A

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. VA0002071

ADDRESS: 19000 Possum Point Road, Dumfries, Virginia OUTFALL NO. 004

DEQ Parameter No.	EPA Parameter No.	Parameter	EPA Analysis No.	Quantification Level(1) (µg/L)	Reporting Results (1) (µg/L)	Sample Type(2)	Sample Frequency(3)	Specific Target Value(4) (µg/L)
210	39032	Pentachlorophenol	625	50.0		G or C	1/6 M	N/A
175	46000	Phenol(8)	625	10.0		G or C	1/6 M	N/A
602	34621	2,4,6-Trichlorophenol	625	10.0		G or C	1/6 M	N/A
MISCELLANEOUS								
039	00610	Ammonia as NH_3-N	350.1	200		G or C	1/6 M	N/A
005	50060	Chlorine, Total Residual	(6)	100		G or C	1/6 M	N/A
018	00720	Cyanide	335.2	10.0		G or C	1/6 M	N/A
306	03556	Dioxin (2,3,7,8-tetrachlorodibenzo-p-dioxin)	1613	0.00001	N/A	G or C	1/6 M	N/A
--	--	Fecal Coliform (N/CML)	(6)	(7)	N/CML	G	1/6 M	N/A
		E. coli (N/CML)	(6)	(7)	N/CML	G	1/6 M	N/A
--	--	Hydrogen Sulfide	(6)	(7)		G	1/6 M	N/A
--	--	Nitrate (as mg/l Nitrogen)	(6)	(7)	mg/L	G or C	1/6 M	N/A
--	--	Total Dissolved Solids (mg/l)	(6)	(7)	mg/L	G or C	1/6 M	N/A
350	30340	Tributyltin(9)	NBSR 85-3295	(7)		G or C	1/6 M	N/A
252	81551	Xylenes (total)	SW 846 Method	(7)		G	1/6 M	N/A

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment A

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (μg/L) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<[QL]" on the Attachment A form, where the actual test method QL shall be substituted for "[QL]".

(2) Sample Type

G = Grab = An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported.

C = Composite = A 24-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period. For composite metals samples, the individual sample aliquots shall be filtered and preserved immediately upon collection and prior to compositing.

(3) Frequency

1/5 YR = once after the start of the third year from the permit's effective date but 180 days prior to permit expiration.
X = no monitoring required

(4) Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The specific target values are subject to change based on additional information such as hardness data, receiving stream flow and design flows.

(5) A specific analytical method is not specified. An appropriate method shall be selected from the following list of EPA methods (or any approved method presented in 40 CFR Part 136) which will achieve a quantification level that is less than the indicated specific target value for each metal. If the test result is less than the specified specific target value, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

Metal	Analytical Methods
Antimony	204.1; 200.7; 204.2; 1639; 1638; 200.8
Arsenic	200.7; 200.9; 200.8; 1632
Barium	208.1; 200.7; 208.2; 200.8
Cadmium	213.1; 200.7; 213.2; 200.9; 200.8; 1638; 1639; 1637; 1640
Chromium*	218.1; 200.7; 218.2; 218.3; 200.9; 1639; 200.8
Chromium VI	218.4; 1636
Copper	220.1; 200.7; 220.2; 200.9; 1638; 1640; 200.8
Iron	236.1; 200.7; 236.2
Lead	239.1; 200.7; 239.2; 200.9; 200.8; 1638; 1637; 1640
Manganese	243.1; 200.7; 200.9; 243.2; 200.8
Mercury	200.7; 245.1; 200.8; 1631
Nickel	249.1; 200.7; 249.2; 1639; 200.9; 1638; 200.8; 1640
Selenium	200.7; 270.2; 200.8; 1638; 1639; 200.9
Silver	272.1; 200.7; 200.9; 272.2; 1638; 200.8
Zinc	289.1; 200.7; 1638; 1639; 200.8; 289.2.

* Chromium III is measured by the total chromium analysis. If the result of the total chromium analysis is less than or equal to the QL (or specific target value), the result for chromium III can be reported as less than QL.

(6) Any approved method presented in 40 CFR Part 136.

(7) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

(8) Requires continuous extraction.

(9) DEQ's approved analysis for TBT may also be used. (See A Manual for the Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science dated November 1996.)

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY MONITORING
ATTACHMENT A, PAGE 1 of 6

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. VA0002071

ADDRESS: 19000 Possum Point Road, Dumfries, Virginia OUTFALL NO. 005

DEQ Parameter No.	EPA Parameter No.	Parameter	EPA Analysis No.	Quantification Level(1) (µg/L)	Reporting Results (1) (µg/L)	Sample Type(2)	Sample Frequency(3)	Specific Target Value(4) (µg/L)
		METALS						
178	01095	Antimony (Dissolved)	(5)	(5)		G	1/6 M	NA
438	01000	Arsenic III (Dissolved)	(5)	(5)		G	1/6 M	228
439	01005	Barium (Dissolved)	(5)	(5)		G	1/6 M	NA
440	01025	Cadmium (Dissolved)	(5)	(5)		G	1/6 M	1.55
441	80357	Chromium III (Dissolved)	(5)	(5)		G	1/6 M	284
231	01220	Chromium VI (Dissolved)	(5)	(5)		G	1/6 M	12.8
442	01040	Copper (Dissolved)	(5)	(5)		G	1/6 M	16.3
405	01049	Lead (Dissolved)	(5)	(5)		G	1/6 M	20.1
444	71900	Mercury (Dissolved)	(5)	(5)		G	1/6 M	1.0
445	01065	Nickel (Dissolved)	(5)	(5)		G	1/6 M	28
446	01145	Selenium (Dissolved)	(5)	(5)		G	1/6 M	6
447	01075	Silver (Dissolved)	(5)	(5)		G	1/6 M	2.2
		Thallium (Dissolved)	(5)	(5)		G	1/6 M	NA
448	01090	Zinc (Dissolved)	(5)	(5)		G	1/6 M	107
137	00900	Hardness (as mg/L $CaCO_3$)	(6)	(7)	mg/L	G	1/6 M	N/A
		PESTICIDES / PCB'S						
332	39330	Aldrin	608	0.05		G or C	1/6 M	N/A
333	39350	Chlordane	608	0.2		G or C	1/6 M	N/A
334	77969	Chlorpyrifos (Dursban)	622	(7)		G or C	1/6 M	N/A
-	-	DDD	608	0.1		G or C	1/6 M	N/A
-	-	DDE	608	0.1		G or C	1/6 M	N/A
335	39370	DDT	608	0.1		G or C	1/6 M	N/A
336	39560	Demeton	(6)	(7)		G or C	1/6 M	N/A
337	39380	Dieldrin	608	0.1		G or C	1/6 M	N/A
746		Alpha-Endosulfan	608	0.1		G or C	1/6 M	N/A
640		Beta-Endosulfan	608	0.1		G or C	1/6 M	N/A
617		Endosulfan Sulfate	(6)	(7)		G or C	1/6 M	N/A
339	39390	Endrin	608	0.1		G or C	1/6 M	N/A

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. VA0002071

ADDRESS: 19000 Possum Point Road, Dumfries, Virginia OUTFALL NO. 005

DEQ Parameter No.	EPA Parameter No.	Parameter	EPA Analysis No.	Quantification Level[1] (µg/L)	Reporting Results [1] (µg/L)	Sample Type[2]	Sample Frequency[3]	Specific Target Value[4] (µg/L)
--	--	Endrin Aldehyde	[6]	[7]		G or C	1/6 M	N/A
340	39580	Guthion	622	[7]		G or C	1/6 M	N/A
341	39410	Heptachlor	608	0.05		G or C	1/6 M	N/A
--	--	Heptachlor Epoxide	[6]	[7]		G or C	1/6 M	N/A
342	77835	Hexachlorocyclohexane (Lindane)	608	0.05		G or C	1/6 M	N/A
--	--	Kepone	[6]	[7]		G or C	1/6 M	N/A
343	39530	Malathion	[6]	[7]		G or C	1/6 M	N/A
344	39480	Methoxychlor	[6]	[7]		G or C	1/6 M	N/A
345	39755	Mirex	[6]	[7]		G or C	1/6 M	N/A
346	39540	Parathion	[6]	[7]		G or C	1/6 M	N/A
--	--	Total PCB	[6]	[7]		G or C	1/6 M	NA
641	--	PCB-1242	608	1.0		G or C	1/6 M	N/A
642	--	PCB-1254	608	1.0		G or C	1/6 M	N/A
643	--	PCB-1221	608	1.0		G or C	1/6 M	N/A
644	--	PCB-1232	608	1.0		G or C	1/6 M	N/A
645	--	PCB-1248	608	1.0		G or C	1/6 M	N/A
618	39508	PCB-1260	608	1.0		G or C	1/6 M	N/A
646	--	PCB-1016	608	1.0		G or C	1/6 M	N/A
349	39400	Toxaphene	608	5.0		G or C	1/6 M	N/A
		BASE NEUTRAL						
273	--	Acenaphthene	625	10.0		G or C	1/6 M	N/A
275	34222	Anthracene	625	10.0		G or C	1/6 M	N/A
--	--	Benzidine	[6]	[7]		G or C	1/6 M	N/A
276	34526	Benzo(a) anthracene	625	10.0		G or C	1/6 M	N/A
648	--	Benzo(b) fluoranthene (3,4-Bensofluoranthene)	625	10.0		G or C	1/6 M	N/A
278	34242	Benzo(k) fluoranthene	625	10.0		G or C	1/6 M	N/A
277	34247	Benzo(a)pyrene	625	10.0		G or C	1/6 M	N/A
--	--	Bis 2-Chloroethyl Ether	[6]	[7]		G or C	1/6 M	N/A
279	--	Bis 2-Chloroiso-Propyl Ether	[6]	[7]		G or C	1/6 M	N/A

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. VA0002071

ADDRESS: 19000 Possum Point Road, Dumfries, Virginia OUTFALL NO. 005

DEQ Parameter No.	EPA Parameter No.	Parameter	EPA Analysis No.	Quantification Level(1) (µg/L)	Reporting Results (1) (µg/L)	Sample Type(2)	Sample Frequency(3)	Specific Target Value(4) (µg/L)
486	--	Butyl Benzyl Phthalate	625	10.0		G or C	1/6 M	N/A
--	--	2-Chloronaphthalene	(6)	(7)		G or C	1/6 M	NA
282	34320	Chrysene	625	10.0		G or C	1/6 M	N/A
654	--	Dibenz(a,h) anthracene	625	20.0		G or C	1/6 M	N/A
206	--	Dibutyl phthalate	625	10.0		G or C	1/6 M	N/A
259	34536	1,2-Dichlorobenzene	625	10.0		G or C	1/6 M	N/A
264	34566	1,3-Dichlorobenzene	625	10.0		G or C	1/6 M	N/A
266	34571	1,4-Dichlorobenzene	625	10.0		G or C	1/6 M	N/A
527	--	3,3-Dichlorobenzidine	(6)	(7)		G or C	1/6 M	N/A
285	--	Diethyl phthalate	625	10.0		G or C	1/6 M	N/A
170	--	Di-2-Ethylhexyl Phthalate	625	10.0		G or C	1/6 M	N/A
286	--	Dimethyl Phthalate	(6)	(7)		G or C	1/6 M	N/A
239	34611	2,4-Dinitrotoluene	625	10.0		G or C	1/6 M	N/A
535	--	1,2-Dihenylhydrazine	(6)	(7)		G or C	1/6 M	N/A
287	34376	Fluoranthene	625	10.0		G or C	1/6 M	N/A
288	34381	Fluorene	625	10.0		G or C	1/6 M	N/A
289	--	Hexachlorobenzene	(6)	(7)		G or C	1/6 M	N/A
290	--	Hexachlorobutadiene	(6)	(7)		G or C	1/6 M	N/A
538	--	Hexachlorocyclopentadiene	(6)	(7)		G or C	1/6 M	N/A
291	--	Hexachloroethane	(6)	(7)		G or C	1/6 M	N/A
651	--	Indeno(1,2,3-cd) pyrene	625	20.0		G or C	1/6 M	N/A
650	--	Isophorone	625	10.0		G or C	1/6 M	N/A
293	34696	Naphthalene	625	10.0		G or C	1/6 M	N/A
294	--	Nitrobenzene	625	10.0		G or C	1/6 M	N/A
573	--	N-Nitrosodimethlamine	(6)	(7)		G or C	1/6 M	N/A
574	--	N-Nitrosodiphenylamine	(6)	(7)		G or C	1/6 M	N/A
575	--	N-Nitrosodi-n-proplyamine	(6)	(7)		G or C	1/6 M	N/A
296	34469	Pyrene	625	10.0		G or C	1/6 M	N/A
601	--	1,2,4 Trichlorobenzene	625	10.0		G or C	1/6 M	N/A

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. VA0002071

ADDRESS: 19000 Possum Point Road, Dumfries, Virginia OUTFALL NO. 005

DEQ Parameter No.	EPA Parameter No.	Parameter	EPA Analysis No.	Quantification Level(1) (µg/L)	Reporting Results (1) (µg/L)	Sample Type(2)	Sample Frequency(3)	Specific Target Value(4) (µg/L)
VOLATILES								
171		Acrolein	(6)	(7)		G	1/6 M	NA
204		Acrylonitrile (Vinyl cyanide)	(6)	(7)		G	1/6 M	NA
216	34030	Benzene	624	10.0		G	1/6 M	N/A
484	32104	Bromoform	624	10.0		G	1/6 M	N/A
236	32102	Carbon Tetrachloride	624	10.0		G	1/6 M	N/A
653	--	Chlorobenzene	624	50.0		G	1/6 M	NA
652	--	Chlorodibromomethane	624	10.0		G	1/6 M	N/A
223	32106	Chloroform	624	10.0		G	1/6 M	N/A
649	--	Dichloromethane (Methylene chloride)	624	20.0		G	1/6 M	N/A
244	79603	Dichlorobromomethane	624	20.0		G	1/6 M	N/A
260	34531	1,2-Dichloroethane	624	10.0		G	1/6 M	N/A
258	--	1,1-Dichloroethylene	624	10.0		G	1/6 M	N/A
262	--	Trans 1,2-Dichloroethylene	(6)	(7)		G	1/6 M	N/A
261	--	1,2-Dichloropropane	(6)	(7)		G	1/6 M	N/A
265	--	1,3-Dichloropropene (1,3-Dichlorpropylene)	(6)	(7)		G	1/6 M	N/A
172	34371	Ethylbenzene	624	10.0		G	1/6 M	N/A
--	--	Methyl Bromide	(6)	(7)		G	1/6 M	N/A
220	34475	Tetrachloroethylene	624	10.0		G	1/6 M	N/A
222	34010	Toluene	624	10.0		G	1/6 M	N/A
596	--	1,1,2,2-Tetrachloroethane	(6)	(7)		G	1/6 M	N/A
155	39180	Trichloroethylene	624	10.0		G	1/6 M	N/A
173	39175	Vinyl Chloride	624	10.0		G	1/6 M	N/A
ACIDS EXTRACTABLES								
267	--	2-Chlorophenol	625	10.0		G or C	1/6 M	N/A
268	--	2,4 Dichlorophenol	625	10.0		G or C	1/6 M	N/A
269	--	2,4 Dimethylphenol	625	10.0		G or C	1/6 M	N/A
--	--	2-Methyl-2,4-Dintrophenol (4,6-Dinitro-O-Cresol)	(6)	(7)		G or C	1/6 M	N/A
270	--	2,4-Dinitrophenol	(6)	(7)		G or C	1/6 M	N/A

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. VA0002071

ADDRESS: 19000 Possum Point Road, Dumfries, Virginia OUTFALL NO. 005

DEQ Parameter No.	EPA Parameter No.	Parameter	EPA Analysis No.	Quantification Level[1] (µg/L)	Reporting Results [1] (µg/L)	Sample Type[2]	Sample Frequency[3]	Specific Target Value[4] (µg/L)
210	39032	Pentachlorophenol	625	50.0		G or C	1/6 M	N/A
175	46000	Phenol[8]	625	10.0		G or C	1/6 M	N/A
602	34621	2,4,6-Trichlorophenol	625	10.0		G or C	1/6 M	N/A
MISCELLANEOUS								
039	00610	Ammonia as NH_3-N	350.1	200		G or C	1/6 M	N/A
005	50060	Chlorine, Total Residual	[6]	100		G or C	1/6 M	N/A
018	00720	Cyanide	335.2	10.0		G or C	1/6 M	N/A
306	03556	Dioxin (2,3,7,8-tetrachlorodibenzo-p-dioxin)	1613	0.00001	N/A	G or C	1/6 M	N/A
--	--	Fecal Coliform (N/CML)	[6]	[7]	N/CML	G	1/6 M	N/A
		E. coli (N/CML)	[6]	[7]	N/CML	G	1/6 M	N/A
--	--	Hydrogen Sulfide	[6]	[7]		G	1/6 M	N/A
--	--	Nitrate (as mg/l Nitrogen)	[6]	[7]	mg/L	G or C	1/6 M	N/A
--	--	Total Dissolved Solids (mg/l)	[6]	[7]	mg/L	G or C	1/6 M	N/A
350	30340	Tributyltin[9]	NBSR 85-3295	[7]		G or C	1/6 M	N/A
252	81551	Xylenes (total)	SW 846 Method	[7]		G	1/6 M	N/A

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment A

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (μg/L) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<[QL]" on the Attachment A form, where the actual test method QL shall be substituted for "[QL]".

(2) Sample Type

G = Grab = An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported.

C = Composite = A 24-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period. For composite metals samples, the individual sample aliquots shall be filtered and preserved immediately upon collection and prior to compositing.

(3) Frequency

1/5 YR = once after the start of the third year from the permit's effective date but 180 days prior to permit expiration.
X = no monitoring required

(4) Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The specific target values are subject to change based on additional information such as hardness data, receiving stream flow and design flows.

(5) A specific analytical method is not specified. An appropriate method shall be selected from the following list of EPA methods (or any approved method presented in 40 CFR Part 136) which will achieve a quantification level that is less than the indicated specific target value for each metal. If the test result is less than the specified specific target value, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

Metal	Analytical Methods
Antimony	204.1; 200.7; 204.2; 1639; 1638; 200.8
Arsenic	200.7; 200.9; 200.8; 1632
Barium	208.1; 200.7; 208.2; 200.8
Cadmium	213.1; 200.7; 213.2; 200.9; 200.8; 1638; 1639; 1637; 1640
Chromium*	218.1; 200.7; 218.2; 218.3; 200.9; 1639; 200.8
Chromium VI	218.4; 1636
Copper	220.1; 200.7; 220.2; 200.9; 1638; 1640; 200.8
Iron	236.1; 200.7; 236.2
Lead	239.1; 200.7; 239.2; 200.9; 200.8; 1638; 1637; 1640
Manganese	243.1; 200.7; 200.9; 243.2; 200.8
Mercury	200.7; 245.1; 200.8; 1631
Nickel	249.1; 200.7; 249.2; 1639; 200.9; 1638; 200.8; 1640
Selenium	200.7; 270.2; 200.8; 1638; 1639; 200.9
Silver	272.1; 200.7; 200.9; 272.2; 1638; 200.8
Zinc	289.1; 200.7; 1638; 1639; 200.8; 289.2.

* Chromium III is measured by the total chromium analysis. If the result of the total chromium analysis is less than or equal to the QL (or specific target value), the result for chromium III can be reported as less than QL.

(6) Any approved method presented in 40 CFR Part 136.

(7) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

(8) Requires continuous extraction.

(9) DEQ's approved analysis for TBT may also be used. (See A Manual for the Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science dated November 1996.)

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 1 of 4

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002017

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/l)	Reporting Results [1] (mg/l)	Sample Type[2]	Threshold Levels (mg/l)
Toxicity Characteristic Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311			G	5.0
151	7440-39-3	Barium	1311			G	100.0
216	71-43-2	Benzene	1311			G	3.0
096	7440-43-9	Cadmium	1311			G	1.0
236	56-23-5	Carbon Tetrachloride	1311			G	0.5
333	57-74-9	Chlordane	1311			G	0.03
280	108-90-7	Chlorobenzene	1311			G	100.0
223	67-66-3	Chloroform	1311			G	6.0
016	7440-47-3	Chromium	1311			G	5.0
510	95-48-7	o-Cresol *	1311			G	200.0
509	108-39-4	m-Cresol *	1311			G	200.0
511	106-44-5	p-Cresol *	1311			G	200.0
512		Cresols, Total	1311			G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311			G	7.5
260	107-06-2	1,2-Dichloroethane	1311			G	0.5
258	75-35-4	1,1-Dichloroethylene	1311			G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311			G	0.13
339	72-20-8	Endrin	1311			G	0.02
341	76-44-8	Heptachlor	1311			G	0.008
289	118-74-1	Hexachlorobenzene	1311			G	0.13
290	87-68-3	Hexachlorobutadiene	1311			G	0.5
291	67-72-1	Hexachloroethane	1311			G	5.0
034	7439-92-1	Lead	1311			G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311			G	0.4
042	7439-97-6	Mercury	1311			G	0.2
344	72-43-5	Methoxychlor	1311			G	10.0
	78-93-3	Methyl Ethyl Ketone	1311			G	200.0
294	98-95-3	Nitrobenzene	1311			G	2.0
210	87-86-5	Pentachlorophenol	1311			G	100.0
	110-86-1	Pyridine	1311			G	5.0
152	7782-49-2	Selenium	1311			G	1.0
037	7440-22-4	Silver	1311			G	5.0
220	127-18-4	Tetrachloroethylene	1311			G	0.7
349	8001-35-2	Toxaphene	1311			G	0.5
602	79-01-6	Trichloroethylene	1311			G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311			G	400
602	88-06-2	2,4,6-Trichlorophenol	1311			G	2.0
173	75-01-4	Vinyl Chloride	1311			G	0.2

* If o-, m- and p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002017

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/kg)	Reporting Results[1] (mg/kg)	Sample Type[2]
		Metals (Part B.1.)				
178	7429-90-5	Antimony	(3)	(4)		G
457		Arsenic III	(3)	(4)		G
441	16055-83-1	Chromium III	(3)	(4)		G
231	18540-29-9	Chromium VI	(3)	(4)		G
442	744-50-8	Copper	(3)	(4)		G
445	7440-02-0	Nickel	(3)	(4)		G
	7440-28-0	Thallium	(3)	(4)		G
448	7440-66-6	Zinc	(3)	(4)		G
		Pesticides/PCB'S (Part B.2.)				
332	309-00-2	Aldrin	(3)	(4)		G
334		Chlorpyrifos Dursban	(3)	(4)		G
--	72-54-8	DDD	(3)	(4)		G
--	72-55-9	DDE	(3)	(4)		G
335	50-29-3	DDT	(3)	(4)		G
336	8065-48-3	Demeton	(3)	(4)		G
337	60-57-1	Dieldrin	(3)	(4)		G
746	959-98-8	Alpha-Endosulfan	(3)	(4)		G
640	33213-65-9	Alpha-Endosulfan	(3)	(4)		G
617	1031-07-8	Endosulfan Sulfate	(3)	(4)		G
--	7421-93-4	Endrin Aldehyde	(3)	(4)		G
340	86-50-0	Guthion	(3)	(4)		G
--	1024-57-3	Heptachlor Epoxide	(3)	(4)		G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	(3)	(4)		G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	(3)	(4)		G
--	143-50-0	Kepone	(3)	(4)		G
343	121-75-5	Malathion	(3)	(4)		G
345	2385-85-5	Mirex	(3)	(4)		G
346	56-38-2	Parathion	(3)	(4)		G
--	1336-36-3	Total PCB	(3)	(4)		G
641	53469-21-9	PCB-1242	(3)	(4)		G
642	11097-69-1	PCB-1254	(3)	(4)		G
643	11104-28-2	PCB-1221	(3)	(4)		G
644	11141-16-5	PCB-1232	(3)	(4)		G
645	12672-29-6	PCB-1248	(3)	(4)		G
618	11096-82-5	PCB-1260	(3)	(4)		G
646	12674-11-2	PCB-1016	(3)	(4)		G
		Base Neutral Extractable (Part B.3.)				
273	208-96-8	Acenaphthene	(3)	(4)		G
275	120-12-7	Anthracene	(3)	(4)		G
--	92-87-5	Benzidine	(3)	(4)		G
276	56-55-3	Benzo(a) anthracene	(3)	(4)		G

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002017

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/kg)	Reporting Results[1] (mg/kg)	Sample Type[2]
648	50-32-8	Benzo(b) fluoranthene (3,4-Bensofluoranthene)	(3)	(4)		G
278	207-08-9	Benzo(k) fluoranthene	(3)	(4)		G
277	50-32-8	Benzo(a)pyrene	(3)	(4)		G
--	111-44-4	Bis 2-Chloroethyl Ether	(3)	(4)		G
279	102-60-1	Bis 2-Chloroiso-Propyl Ether	(3)	(4)		G
486	85-68-7	Butyl benzyl phthalate	(3)	(4)		G
--	91-58-7	2-Chloronaphthalene	(3)	(4)		G
282	218-01-9	Chrysene	(3)	(4)		G
654	53-70-3	Dibenz(a,h) anthracene	(3)	(4)		G
206	84-74-2	Dibutyl phthalate	(3)	(4)		G
259	95-50-1	1,2-Dichlorobenzene	(3)	(4)		G
264	541-73-1	1,3-Dichlorobenzene	(3)	(4)		G
527	91-94-1	3,3-Dichlorobenzidine	(3)	(4)		G
285	84-66-2	Diethyl phthalate	(3)	(4)		G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethylhexyl) Phthalate)	(3)	(4)		G
286	131-11-3	Dimethyl Phthalate	(3)	(4)		G
535	122-66-7	1,2-Dihenylhydrazine	(3)	(4)		G
287	206-44-0	Fluoranthene	(3)	(4)		G
288	86-73-7	Fluorene	(3)	(4)		G
538	77-47-4	Hexachlorocyclopentadiene	(3)	(4)		G
651	193-39-5	Indeno(1,2,3-cd) pyrene	(3)	(4)		G
650	78-59-1	Isophorone	(3)	(4)		G
293	91-20-3	Naphthalene	(3)	(4)		G
573	62-75-9	N-Nitrosodimethylamine	(3)	(4)		G
574	86-30-6	N-Nitrosodiphenylamine	(3)	(4)		G
575	621-64-7	N-Nitrosodi-n-proplyamine	(3)	(4)		G
296	129-00-0	Pyrene	(3)	(4)		G
263	129-82-1	1,2,4 Trichlorobenzene	(3)	(4)		G
		Volatiles (Part B.4.)				
171	107-02-8	Acrolein	(3)	(4)		G
204	107-13-1	Acrylonitrile (Vinyl cyanide)	(3)	(4)		G
484	75-25-2	Bromoform	(3)	(4)		G
652	124-48-1	Chlorodibromomethane	(3)	(4)		G
649	75-09-2	Dichloromethane (Methylene chloride)	(3)	(4)		G
244	75-27-4	Dichlorobromomethane	(3)	(4)		G
262	156-60-5	Trans 1,2-Dichloroethylene	(3)	(4)		G
261	78-87-5	1,2-Dichloropropane	(3)	(4)		G
265	542-75-6	1,3-Dichloropropene (1,3-Dichlorpropylene)	(3)	(4)		G
172	100-41-4	Ethylbenzene	(3)	(4)		G
--	74-83-9	Methyl Bromide	(3)	(4)		G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	(3)	(4)		G
596	79-34-5	1,1,2,2-Tetrachloroethane	(3)	(4)		G

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002017

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/kg)	Reporting Results[1] (mg/kg)	Sample Type[2]
222	108-88-3	Toluene	[3]	[4]		G
373	79-00-5	1,1,2-Trichloroethane	[3]	[4]		G
155	79-01-6	Trichloroethylene	[3]	[4]		G
		Acids Extratables (Part B.5.)				
267	95-57-8	2-Chlorophenol	[3]	[4]		G
268	120-83-2	2,4 Dichlorophenol	[3]	[4]		G
269	105-67-9	2,4 Dimethylphenol	[3]	[4]		G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	[3]	[4]		G
270	51-28-5	2,4-Dinitrophenol	[3]	[4]		G
175	108-95-2	Phenol	[3]	[4]		G
		Miscellaneous (Part B.6.)				
018		Cyanide, Total	[3]	[4]		G
306		Dioxin	[3]	[4]		G
350		Tributyltin	[3]	[4]		G
257		TPH (Total Petroleum Hydrocarbons)	[3]	[4]		G

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.
Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilograms (mg/kg) unless otherwise specified. Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<[QL]" on the Attachment B form, where the actual test method QL shall be substituted for "[QL]".

(2) Sample Type:
G = Grab - An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported.

(3) Any approved method presented in 40 CFR Part 136.

(4) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records

1. Records of monitoring information shall include:
   a. Records of monitoring information shall include:
   b. The date, exact place, and time of sampling or measurements;
   c. The individual(s) who performed the sampling or measurements;
   d. The date(s) and time(s) analyses were performed;
   e. The individual(s) who performed the analyses;
   f. The analytical techniques or methods used; and
   g. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Department of Environmental Quality - Northern Regional Office (DEQ-NRO)
   13901 Crown Court
   Woodbridge, VA 22193

   Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

2. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

3. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information.

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from this discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges.

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II.F.; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II.F., shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges.

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:
   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I. if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II, I.1.or I.2., in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II, G., H. and I. may be made to the Department's Northern Virginia Regional Office at (703) 583-3800 (voice) or (703) 583-3841 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes.

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

      1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
      2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements.

1. All permit applications shall be signed as follows:

   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
      1) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or

      2) The manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

   b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

   c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes:

      1) The chief executive officer of the agency, or
      2) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part II.K.1.;

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

   c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II.K.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2. shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II, K.1. or K.2. shall make the following certification:

   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply.

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit.

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law.

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U.), and "upset" (Part II.V.) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of solids or sludges.

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II, U.2. and U.3.

2. Notice
   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.

3. Prohibition of bypass.
   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
      1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
      3) The permittee submitted notices as required under Part II.U.2.

   b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset.

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2. are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   a. An upset occurred and that the permittee can identify the cause(s) of the upset;
   b. The permitted facility was at the time being properly operated;
   c. The permittee submitted notice of the upset as required in Part II.I.; and
   d. The permittee complied with any remedial measures required under Part II.S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions.

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2., a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II.Y.1., this permit may be automatically transferred to a new permittee if:
   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN REGIONAL OFFICE
13901 Crown Court, Woodbridge, Virginia 22193
(703) 583-3800
www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director

January 19, 2016

By Email (cathy.c.taylor@dom.com)

Ms. Cathy C. Taylor
Director, Electric Environmental Services
Dominion Resources Services, Inc.
5000 Dominion Boulevard
Glen Allen, VA 23060

Re: Modification of Virginia Pollutant Discharge Elimination System (VPDES) Permit No. VA0002071
Dominion – Possum Point Power Station, Prince William County

Dear Ms. Taylor:

The Department of Environmental Quality (DEQ) has approved the enclosed effluent limitations and monitoring requirements for the above-referenced permit. Copies of your permit and fact sheet are enclosed.

A Discharge Monitoring Report (DMR) form is not included in this package since you are already enrolled in DEQ's electronic DMR (e-DMR) program. Please reference the effluent limits in your permit and report monitoring results in e-DMR to the same number of significant digits as are included in the permit limits for the parameter. The regional contact for e-DMR is Rebecca Vice; she can be reached at (703) 583-3922 or by e-mail at Rebecca.Vice@deq.virginia.gov.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternately, any owner under §§ 62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in §1.23(b) of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

If you have questions about the permit, please contact Susan Mackert at (703) 583-3853, or by E-mail at susan.mackert@deq.virginia.gov.

Respectfully,

Bryant Thomas
Water Permit & Planning Manager

Enc.: Permit for VA0002071
Fact Sheet for VA0002071

cc: Ken Roller (kenneth.roller@dom.com)
Jason Williams (jason.e.williams@dom.com)
DEQ-Water, OWPP
EPA-Region III, 3WP12
Department of Health, Culpeper/Lexington
Water Compliance, NRO

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No.	**VA0002071**
Effective Date:	**April 3, 2013**
Minor Modification Date:	**May 30, 2013**
Major Modification Date:	**January 14, 2016**
Expiration Date:	**April 2, 2018**

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I – Effluent Limitations and Monitoring Requirements, and Part II – Conditions Applicable To All VPDES Permits, as set forth herein.

Owner Name:	Virginia Electric and Power Company d/b/a Dominion Virginia Power
Facility Name:	Dominion – Possum Point Power Station
County:	Prince William
Facility Location:	19000 Possum Point Road, Dumfries, VA 22026

The owner is authorized to discharge to the following receiving streams:

Outfalls:	001/002, 003, 004	005, 010	007, 008, 009
Stream Name:	Quantico Creek	Quantico Creek, UTs	Potomac River
River Basin:	Potomac River	Potomac River	Potomac River
River Subbasin:	Lower Potomac	Lower Potomac	Lower Potomac
Section:	6	6	Maryland Section 02140102
Class:	II	II	Maryland Designated II
Special Standards:	b (Not Applicable)	b (Not Applicable)	Maryland Designated Use II

Thomas A. Faha

Thomas A. Faha
Director, Northern Regional Office
Department of Environmental Quality

January 14, 2016
Date

A. Effluent Limitations and Monitoring Requirements

1. Outfall 001/002 – Unit 3 Condenser Cooling Water, Unit 5 Cooling Tower Blowdown, Unit 6 Cooling Tower Blowdown, Internal Outfall 503 (Interim), and Stormwater

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's major modification date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 001/002. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	1/M	Estimate
pH	NA	NA	6.0 S.U.	9.0 S.U.	1/M	Grab
Heat Rejection (Unit 3)[3]	NA	NA	NA	5.58×10^8 BTU/hr	Continuous	Calculated
Total Residual Chlorine (TRC)[4,9]	0.022 mg/L	NA	NA	0.032 mg/L	2/M	Grab
Total Nitrogen, Intake[5,6]	NL (mg/L)	NA	NA	NA	1/3M	Calculated
Total Nitrogen[5,6]	NL (mg/L)	NA	NA	NA	1/3M	Calculated
Total Phosphorus, Intake[6]	NL (mg/L)	NA	NA	NA	1/3M	Grab
Total Phosphorus[6]	NL (mg/L)	NA	NA	NA	1/3M	Grab
Temperature , Intake	NL (°C)	NA	NA	NL (°C)	1/D	IS
Temperature	NL (°C)	NA	NA	NL (°C)	1/D	IS
Dissolved Copper, Intake[7,9]	NL (µg/L)	NA	NA	NA	1/6M	Grab
Dissolved Copper[7,9]	NL (µg/L)	NA	NA	NA	1/6M	Grab
Total Hardness, Intake (as $CaCO_3$)[7]	NL (mg/L)	NA	NA	NA	1/6M	Grab
Total Hardness (as $CaCO_3$)[7]	NL (mg/L)	NA	NA	NA	1/6M	Grab
Chronic Toxicity – *C. dubia* (TU_c)[8]	NA	NA	NA	NL	1/YR	Grab
Chronic Toxicity – *P. promelas* (TU_c)[8]	NA	NA	NA	NL	1/YR	Grab

(1) See Part I.B.

(2) Average flow is 86.38 MGD (does not include flows that may be contributed by Internal Outfall 503).

(3) Measured at the respective condenser units prior to discharge to the Seal Basin.

(4) While chlorinating unit condensers. See Part I.B.1 for additional requirements.

(5) Total Nitrogen is the sum of Total Kjeldahl Nitrogen and NO_2+NO_3 and shall be calculated from the results of those tests.

(6) Intake and discharge sampling for the parameter (Total Phosphorus or Total Nitrogen) shall be conducted on the same date. To the maximum extent practicable, discharge samples shall be collected in such a manner to account for pass through time of the system to allow for evaluation of nutrient additions from station operations.

(7) Dissolved copper and hardness samples shall be collected concurrently. Intake and discharge samples collected to comply with Dissolved Copper and Hardness requirements shall be collected on the same date. To the maximum extent practicable, discharge samples shall be collected in such a manner to account for pass through time of the system to allow for evaluation of dissolved copper additions from station operations.

(8) See Part I.C for whole effluent toxicity requirements.

(9) The following Quantification Levels (QLs) are applicable: TRC – 0.10 mg/L; Copper - 5.4 µg/L.

MGD = Million gallons per day.
NA = Not applicable.
NL = No limit; monitor and report.
S.U. = Standard units.
IS = Immersion stabilization.

1/D = Once every day.
1/M = Once every month.
2/M = Twice every month.
1/3M = Once every three months.
1/6M = Once every six months.
1/YR = Once every year.

1/3M = The quarterly monitoring periods shall be January 1 – March 31, April 1 – June 30, July 1 – September 30, and October 1 – December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (April 10, July 10, October 10 and January 10, respectively).

1/6M = The semi-annual monitoring period shall be January 1 – June 30 and July 1 - December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (July 10 and January 10, respectively).

1/YR = The annual monitoring period shall be January 1 - December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (January 10).

Grab = An individual sample collected over a period of time not to exceed 15-minutes.

Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

A. Effluent Limitations and Monitoring Requirements

2. Outfall 003 – Unit 4 Condenser Cooling Water

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 003. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	1/M	Estimate
pH	NA	NA	6.0 S.U.	9.0 S.U.	1/M	Grab
Heat Rejection (Unit 4)[3]	NA	NA	NA	1.14×10^9 BTU/hr	Continuous	Calculated
Total Residual Chlorine (TRC)[4,6]	0.022 mg/L	NA	NA	0.032 mg/L	2/M	Grab
Temperature	NL (^oC)	NA	NA	NL (^oC)	1/W	IS
Chronic Toxicity – *C. dubia* (TU_c)[5]	NA	NA	NA	NL	1/YR	Grab
Chronic Toxicity – *P. promelas* (TU_c)[5]	NA	NA	NA	NL	1/YR	Grab

[1] See Part I.B.
[2] Average flow is 82.55 MGD.
[3] Measured at the respective condenser unit.
[4] While chlorinating unit condensers. See Part I.B.1 for additional requirements.
[5] See Part I.C for whole effluent toxicity requirements.
[6] The following Quantification Level (QLs) is applicable: TRC – 0.10 mg/L.

MGD = Million gallons per day.
NA = Not applicable.
NL = No limit; monitor and report.
S.U. = Standard units.
IS = Immersion stabilization.

1/W = Once every week.
1/M = Once every month.
2/M = Twice every month.
1/YR = Once every year.

1/YR = The annual monitoring period shall be January 1 - December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (January 10).

Grab = An individual sample collected over a period of time not to exceed 15-minutes.

Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

A. Effluent Limitations and Monitoring Requirements

3. Outfall 004 – Low Volume Waste Settling Pond, Internal Outfall 502, and Internal Outfall 503 (Interim)

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's major modification date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 004. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	2/M	Estimate
pH	NA	NA	6.0 S.U.	9.0 S.U.	2/M	Grab
Heat Rejection (Unit 6)[3]	NA	NA	NA	1.9×10^8 BTU/hr	2/M	Calculated
Total Residual Chlorine (TRC)[4,7]	0.026 mg/L	NA	NA	0.038 mg/L	1/W	Grab
Temperature	NL (°C)	NA	NA	NL (°C)	1/W	IS
Oil and Grease (O&G)	15 mg/L	NA	NA	20 mg/L	2/M	Grab
Total Suspended Solids (TSS)[7]	30 mg/L	NA	NA	100 mg/L	2/M	Grab
Total Nitrogen[5]	NL (mg/L)	NA	NA	NA	1/6M	Calculated
Total Kjeldahl Nitrogen (TKN)	NL (mg/L)	NA	NA	NA	1/6M	Grab
Nitrate+Nitrite (NO_3+ NO_2), as N	NL (mg/L)	NA	NA	NA	1/6M	Grab
Ammonia, as N[7]	NL (mg/L)	NA	NA	NA	1/6M	Grab
Total Phosphorus	NL (mg/L)	NA	NA	NA	1/6M	Grab
Chronic Toxicity – *C. dubia* (TU_c)[6]	NA	NA	NA	NL	1/YR	Grab
Chronic Toxicity – *P. promelas* (TU_c)[6]	NA	NA	NA	NL	1/YR	Grab

(1) See Part I.B.
(2) Average flow is 2.59 MGD (does not include flows that may be contributed by Internal Outfall 503).
(3) Calculated for the effluent at Outfall 004.
(4) While chlorinating unit condensers. See Part I.B.1 for additional requirements.
(5) Total Nitrogen is the sum of Total Kjeldahl Nitrogen and NO_2+NO_3 and shall be calculated from the results of those tests.
(6) See Part I.C for whole effluent toxicity requirements.

MGD = Million gallons per day.
NA = Not applicable.
NL = No limit; monitor and report.
S.U. = Standard units.
IS = Immersion stabilization.

1/W = Once every week.
1/M = Once every month.
2/M = Twice every month.
1/6M = Once every six months.
1/YR = Once every year.

(7) The following Quantification Levels (QLs) are applicable: TRC – 0.10 mg/L; TSS – 1.0 mg/L; Ammonia (as N) – 0.2 mg/L.

1/6M = The semi-annual monitoring period shall be January 1 – June 30 and July 1 - December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (July 10 and January 10, respectively).

1/YR = The annual monitoring period shall be January 1 - December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (January 10).

Grab = An individual sample collected over a period of time not to exceed 15-minutes.

Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

A. Effluent Limitations and Monitoring Requirements

4. Outfall 005 – Ash Pond D Dewatering (Interim Configuration – Internal Outfall 503 and Discharge from Holding Basin)

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the commencement of facility dewatering activities and lasting until the expiration date the permittee is authorized to discharge from Outfall Number 005. Internal Outfall 503 is authorized to discharge through Outfall 005. When the Outfall 005 discharge is comprised of effluent directly from Internal Outfall 503, the monitoring results from Internal Outfall 503 may be used to satisfy effluent monitoring requirements for the respective parameters noted below. The effluent and monitoring requirements below apply to Outfall 005 discharges from the holding basin. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements[5,6]	
	Monthly Average[1,7]	Daily Maximum[1,7]	Minimum[7]	Maximum[1,7]	Frequency	Sample Type
Flow[2] (MGD)	NA	NA	NA	2.88	3/W	Estimate
pH	NA	NA	6.0 S.U.	9.0 S.U.	3/W	Grab
Total Suspended Solids (TSS)[4]	30 mg/L	100 mg/L	NA	NA	3/W	4H-C
Oil and Grease (O&G)	15 mg/L	20 mg/L	NA	NA	3/W	4H-C
Aluminum, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Antimony, Total Recoverable[4]	640 µg/L	640 µg/L	NA	NA	3/W	4H-C
Arsenic, Total Recoverable[4]	120 µg/L	220 µg/L	NA	NA	3/W	4H-C
Barium, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Beryllium, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Boron, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Cadmium, Total Recoverable[4]	0.88 µg/L	1.6 µg/L	NA	NA	3/W	4H-C
Chloride	180,000 µg/L	340,000 µg/L	NA	NA	3/W	4H-C
Chromium III, Total Recoverable[4]	59 µg/L	110 µg/L	NA	NA	3/W	4H-C
Chromium VI, Total Recoverable[4]	8.7 µg/L	16 µg/L	NA	NA	3/W	4H-C
Cobalt, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Copper, Total Recoverable[4]	7.1 µg/L	13 µg/L	NA	NA	3/W	4H-C
Iron, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Lead, Total Recoverable[4]	11 µg/L	20 µg/L	NA	NA	3/W	4H-C
Mercury, Total Recoverable[4]	0.61 µg/L	1.1 µg/L	NA	NA	3/W	4H-C
Molybdenum, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Nickel, Total Recoverable[4]	16 µg/L	29 µg/L	NA	NA	3/W	4H-C
Selenium, Total Recoverable[4]	4.0 µg/L	7.3 µg/L	NA	NA	3/W	4H-C
Silver, Total Recoverable[4]	1.8 µg/L	3.4 µg/L	NA	NA	3/W	4H-C
Thallium, Total Recoverable[4]	0.47 µg/L	0.47 µg/L	NA	NA	3W	4H-C
Vanadium, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Zinc, Total Recoverable[4]	65 µg/L	120 µg/L	NA	NA	3/W	4H-C
Hardness, Total (as $CaCO_3$)	NL (mg/L)	NL (mg/L)	NA	NA	3/W	4H-C
Total Nitrogen[8]	NL (mg/L)	NA	NA	NA	1/M	Calculation
Total Kjeldahl Nitrogen (TKN)	NL (mg/L)	NA	NA	NA	1/M	4H-C
Nitrate+Nitrite (NO_3+NO_2), as N	NL (mg/L)	NA	NA	NA	1/M	4H-C
Ammonia, as N[4]	NL (mg/L)	NA	NA	NA	1/M	4H-C
Acute Toxicity – *C. dubia* ($_{NOAEC}$)[3]	NA	NA	100%	NA	1/M	24H-C
Acute Toxicity – *P. promelas* ($_{NOAEC}$)[3]	NA	NA	100%	NA	1/M	24H-C
Chronic Toxicity – *C. dubia* (TU_c)[3]	NA	NA	NA	1.44 TU_c	1/M	24H-C
Chronic Toxicity – *P. promelas* (TU_c)[3]	NA	NA	NA	1.44 TU_c	1/M	24H-C

A. Effluent Limitations and Monitoring Requirements

4. Outfall 005 – Ash Pond E (Interim Configuration – Internal Outfall 503 and Discharge from Holding Basin) – Continued

(1) See Part I.B.

(2) Average flow is 2.53 MGD; Maximum flow is 2.88 MGD

(3) See Part I.C for whole effluent toxicity requirements.

(4) The following Quantification Levels (QLs) are applicable: TSS – 1.0 mg/L; Antimony – 5.0 µg/L; Arsenic – 5.0 µg/L; Cadmium – 0.88 µg/L; Chromium III – 5.0 µg/L; Chromium VI – 5.0 µg/L; Copper – 5.0 µg/L; Lead – 5.0 µg/L; Mercury – 0.1 µg/L; Nickel – 5.0 µg/L; Selenium – 5.0 µg/L; Silver – 0.4 µg/L; Thallium – 0.47 µg/L; Zinc – 25 µg/L. The permittee may provide documentation that demonstrates the QLs listed for Cadmium and Thallium are not achievable. Based upon review of this documentation the Department may establish higher QLs for Cadmium and Thallium in accordance with 40 CFR 122.44(i)(1)(iv).

MGD = Million gallons per day.
NA = Not applicable.
NL = No limit; monitor and report.
S.U. = Standard units.
3/W = Three days per week.
1/M = Once every month.

(5) Sampling for the parameters identified with a monitoring frequency of "3/W" for Outfall 005 shall occur at least three (3) days per week with a minimum of 48 hours between sampling events. A sampling week extends Sunday through Saturday. The permittee shall contract to receive results for parameters identified with a monitoring frequency of "3/W" within four business days of taking the sample. Results of the weekly sampling shall be reported to DEQ no later than the close of business Friday of the week following sample collection. This reporting requirement does not substitute for, or alter, Part II.C concerning the monthly reporting of monitoring results with the Discharge Monitoring Report.

(6) The composite period for all metals identified with a monitoring frequency of "1/M" shall occur within the composite period for the Whole Effluent Toxicity monitoring.

(7) The permittee shall immediately cease the discharge upon becoming aware of an exceedance of an established effluent limit and/or WET limit at Outfall 005. See Part I.F.20 for additional requirements.

(8) Total Nitrogen is the sum of Total Kjeldahl Nitrogen and NO_2+NO_3 and shall be calculated from the results of those tests.

Grab = An individual sample collected over a period of time not to exceed 15-minutes.
Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

Metals and Total Hardness Requirements:
Samples for all metals and total hardness shall be collected concurrently.

4H-C= A flow proportional composite sample collected manually or automatically, and discretely or continuously, for the entire discharge of the monitored 4 (four)-hour period. Where discrete sampling is employed, the permittee shall collect a minimum of 4 (four) aliquots for compositing. Discrete sampling may be flow proportioned either by varying the time interval between each aliquot or the volume of each aliquot. Time composite samples consisting of a minimum 4 (four) grab samples obtained at hourly or smaller intervals may be collected where the permittee demonstrates that the discharge flow rate (gallons per minute) does not vary by ≥10% or more during the monitored discharge.

24H-C= A flow proportional composite sample collected manually or automatically, and discretely or continuously, for the entire discharge of the monitored 24 (twenty-four)-hour period. Where discrete sampling is employed, the permittee shall collect a minimum of 24 (twenty-four) aliquots for compositing. Discrete sampling may be flow proportioned either by varying the time interval between each aliquot or the volume of each aliquot. Time composite samples consisting of a minimum 24 (twenty-four) grab samples obtained at hourly or smaller intervals may be collected where the permittee demonstrates that the discharge flow rate (gallons per minute) does not vary by ≥10% or more during the monitored discharge.

A. Effluent Limitations and Monitoring Requirements

5. Outfall 007 – Intake Screen Backwash Water (Units 3, 4, 5, and 6)

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 007. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	1/3M	Measured

[1] See Part I.B.
[2] Average flow is 0.19 MGD.

MGD = Million gallons per day.
NA = Not applicable.
NL = No limit; monitor and report.
1/3M = Once every three months.

1/3M = The quarterly monitoring periods shall be January 1 – March 31, April 1 – June 30, July 1 – September 30, and October 1 – December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (April 10, July 10, October 10 and January 10, respectively).

Measured = In lieu of providing measured flow at Outfall 007, the permittee may estimate flow and submit the following information with the DMR:

1. A description of the methodology used to estimate flow (based on the technical evaluation of the sources contributing to the discharge) where flow measurement equipment is not present;
2. Documentation appropriate to the methodology utilized which provides information necessary to support the validity of the reported flow estimate. If actual measurements or observations are made, a description of typical sampling times, locations, and persons performing the measurements/observations shall also be provided; and
3. A description of the factors (e.g., batch discharges, intermittent operation, etc.) which cause flow at the outfall to fluctuate significantly from the estimate provided.

A. Effluent Limitations and Monitoring Requirements

6. Outfall 008 – Intake Screenwell Freeze Protection Water

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 008. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	1/3M	Measured

[1] See Part I.B.
[2] Average flow is 0.00 MGD.

MGD = Million gallons per day.
NA = Not applicable.
NL = No limit; monitor and report.
1/3M = Once every three months.

1/3M = The quarterly monitoring periods shall be January 1 – March 31, April 1 – June 30, July 1 – September 30, and October 1 – December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (April 10, July 10, October 10 and January 10, respectively).

Measured = In lieu of providing measured flow at Outfall 008, the permittee may estimate flow and submit the following information with the DMR:

1. A description of the methodology used to estimate flow (based on the technical evaluation of the sources contributing to the discharge) where flow measurement equipment is not present;
2. Documentation appropriate to the methodology utilized which provides information necessary to support the validity of the reported flow estimate. If actual measurements or observations are made, a description of typical sampling times, locations, and persons performing the measurements/observations shall also be provided; and
3. A description of the factors (e.g., batch discharges, intermittent operation, etc.) which cause flow at the outfall to fluctuate significantly from the estimate provided.

A. Effluent Limitations and Monitoring Requirements

7. Outfall 009 – Intake Screen Backwash Water (Units 3 and 4)

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's major modification date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 009. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	1/3M	Measured

[1] See Part I.B.
[2] Average flow is variable.

MGD = Million gallons per day.
NA = Not applicable.
NL = No limit; monitor and report.
1/3M = Once every three months.

1/3M = The quarterly monitoring periods shall be January 1 – March 31, April 1 – June 30, July 1 – September 30, and October 1 – December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (April 10, July 10, October 10 and January 10, respectively).

Measured = In lieu of providing measured flow at Outfall 009, the permittee may estimate flow and submit the following information with the DMR:

1. A description of the methodology used to estimate flow (based on the technical evaluation of the sources contributing to the discharge) where flow measurement equipment is not present;
2. Documentation appropriate to the methodology utilized which provides information necessary to support the validity of the reported flow estimate. If actual measurements or observations are made, a description of typical sampling times, locations, and persons performing the measurements/observations shall also be provided; and
3. A description of the factors (e.g., batch discharges, intermittent operation, etc.) which cause flow at the outfall to fluctuate significantly from the estimate provided.

A. Effluent Limitations and Monitoring Requirements

8. Outfall 010 – Ash Pond D Toe Drain, Groundwater and Stormwater

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's major modification date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 010. Such discharges shall be limited and monitored by the permittee as specified below.

c. The effluent limitations specified below become effective thirty (30) days after the major modification date of the permit. The monitoring requirements shall commence upon the major modification date of the permit.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	1/M	Estimate
pH	NA	NA	6.0 (S.U.)	9.0 (S.U.)	1/M	Grab
Total Suspended Solids (TSS) [4]	30 mg/L	100 mg/L	NA	NA	1/M	4H-C
Oil and Grease (O&G)	15 mg/L	20 mg/L	NA	NA	1/M	4H-C
Specific Conductivity	NA	NA	NA	NL (µhoms/cm)	1/M	Grab
Aluminum, Total Recoverable[5]	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Antimony, Total Recoverable[4]	640 µg/L	640 µg/L	NA	NA	1/M	4H-C
Arsenic, Total Recoverable[4]	220 µg/L	220 µg/L	NA	NA	1/M	4H-C
Barium, Total Recoverable[4]	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Beryllium, Total Recoverable[5]	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Boron, Total Recoverable[5]	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Cadmium, Total Recoverable[4]	1.1 µg/L	1.1 µg/L	NA	NA	1/M	4H-C
Chloride	340,000 µg/L	340,000 µg/L	NA	NA	1/M	4H-C
Chromium III, Total Recoverable[4]	73 µg/L	73 µg/L	NA	NA	1/M	4H-C
Chromium VI, Total Recoverable[4]	16 µg/L	16 µg/L	NA	NA	1/M	4H-C
Cobalt, Total Recoverable[5]	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Copper, Total Recoverable[4]	8.4 µg/L	8.4 µg/L	NA	NA	1/M	4H-C
Iron, Total Recoverable[5]	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Lead, Total Recoverable[4]	11 µg/L	11 µg/L	NA	NA	1/M	4H-C
Mercury, Total Recoverable[4]	1.1 µg/L	1.1 µg/L	NA	NA	1/M	4H-C
Molybdenum, Total Recoverable[5]	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Nickel, Total Recoverable[4]	19 µg/L	19 µg/L	NA	NA	1/M	4H-C
Selenium, Total Recoverable[4]	7.3 µg/L	7.3 µg/L	NA	NA	1/M	4H-C
Silver, Total Recoverable[3]	1.5 µg/L	1.5 µg/L	NA	NA	1/M	4H-C
Thallium, Total Recoverable[4]	0.47 µg/L	0.47 µg/L	NA	NA	1/M	4H-C
Vanadium, Total Recoverable[5]	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Zinc, Total Recoverable[4]	77 µg/L	77 µg/L	NA	NA	1/M	4H-C
Hardness, Total (as $CaCO_3$)	NL (mg/L)	NL (mg/L)	NA	NA	1/M	4H-C
Acute Toxicity – *C. dubia* (NOAEC)[3]	NA	NA	100%	NA	1/M	24H-C
Acute Toxicity – *P. promelas* (NOAEC) [3]	NA	NA	100%	NA	1/M	24H-C
Chronic Toxicity – *C. dubia* (TU_c) [3]	NA	NA	NA	1.44 TU_c	1/M	24H-C
Chronic Toxicity – *P. promelas* (TU_c) [3]	NA	NA	NA	1.44 TU_c	1/M	24H-C

A. Effluent Limitations and Monitoring Requirements

8. Outfall 010 – Ash Pond D Toe Drain – Continued

(1) See Part I.B.

(2) Average flow is variable.

(3) See Part I.C for whole effluent toxicity requirements.

(4) The following Quantification Levels (QLs) are applicable: TSS – 1.0 mg/L; Antimony – 5.0 µg/L; Arsenic – 5.0 µg/L; Cadmium – 0.88 µg/L; Chromium III – 5.0 µg/L; Chromium VI – 5.0 µg/L; Copper – 5.0 µg/L; Lead – 5.0 µg/L; Mercury – 0.1 µg/L; Nickel – 5.0 µg/L; Selenium – 5.0 µg/L; Silver – 0.4 µg/L; Thallium – 0.47 µg/L; Zinc – 25 µg/L. The permittee may provide documentation that demonstrates the QLs listed for Cadmium and Thallium are not achievable. Based upon review of this documentation the Department may establish higher QLs for Cadmium and Thallium in accordance with 40 CFR 122.44(i)(1)(iv).

(5) The composite period for the identified metals shall occur within the composite period for the Whole Effluent Toxicity monitoring.

MGD = Million gallons per day.
NA = Not applicable.
1/M = Once every month.

Grab = An individual sample collected over a period of time not to exceed 15-minutes.
Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

Metals and Total Hardness Requirements:
Samples for all metals and total hardness shall be collected concurrently.

4H-C= A flow proportional composite sample collected manually or automatically, and discretely or continuously, for the entire discharge of the monitored 4 (four)-hour period. Where discrete sampling is employed, the permittee shall collect a minimum of 4 (four) aliquots for compositing. Discrete sampling may be flow proportioned either by varying the time interval between each aliquot or the volume of each aliquot. Time composite samples consisting of a minimum 4 (four) grab samples obtained at hourly or smaller intervals may be collected where the permittee demonstrates that the discharge flow rate (gallons per minute) does not vary by ≥10% or more during the monitored discharge.

24H-C= A flow proportional composite sample collected manually or automatically, and discretely or continuously, for the entire discharge of the monitored 24 (twenty-four)-hour period. Where discrete sampling is employed, the permittee shall collect a minimum of 24 (twenty-four) aliquots for compositing. Discrete sampling may be flow proportioned either by varying the time interval between each aliquot or the volume of each aliquot. Time composite samples consisting of a minimum 24 (twenty-four) grab samples obtained at hourly or smaller intervals may be collected where the permittee demonstrates that the discharge flow rate (gallons per minute) does not vary by ≥10% or more during the monitored discharge.

A. Effluent Limitations and Monitoring Requirements

9. Outfall 201 – Unit 5 Cooling Tower Blowdown

a. During the period beginning with the permit's effective date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 201. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	1/D-M	Estimate
pH	NA	NA	6.0 S.U.	9.0 S.U.	1/D-W	Grab
Free Available Chlorine[3]	0.2 mg/L	NA	NA	0.5 mg/L	1/D-W	Grab
Total Nitrogen[4,5]	NL (mg/L)	NA	NA	NA	1/3M	Calculated
Total Phosphorus[5]	NL (mg/L)	NA	NA	NA	1/3M	Grab
Total Chromium[7]	0.2 mg/L	NA	NA	0.2 mg/L	1/D-M	Grab
Total Zinc[7]	1.0 mg/L	NA	NA	1.0 mg/L	1/D-M	Grab
126 Priority Pollutants[6] (Appendix A of 40 CFR Part 423)	Non-Detectable	NA	NA	Non-Detectable	1/D-Y	Grab

(1) See Part I.B.
(2) Average flow is 1.48 MGD.
(3) While chlorinating the Unit 5 cooling tower. See Part I.B.1 for additional requirements.
(4) Total Nitrogen is the sum of Total Kjeldahl Nitrogen and NO_2+NO_3 and shall be calculated from the results of those tests.
(5) Sampling of the parameter (either Total Nitrogen or Total Phosphorus) shall be conducted on the same date as sampling for the parameter at the intake and Outfall 001/002 locations.
(6) See Part I.F.8.
(7) The following Quantification Levels (QLs) are applicable: Chromium – 13 µg/L; Zinc - 50 µg/L.

MGD = Million gallons per day.
NA = Not applicable.
NL = No limit; monitor and report.
S.U. = Standard units.

1/D-W = Once per week in which there is a discharge.
1/D-M = Once per month in which there is a discharge.
1/D-Y = Once per year in which there is a discharge.
1/3M = Once every three months in which there is a discharge.

1/3M = The quarterly monitoring periods shall be January 1 – March 31, April 1 – June 30, July 1 – September 30, and October 1 – December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (April 10, July 10, October 10 and January 10, respectively).

1/D-Y = The annual monitoring period shall be January 1 - December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (January 10).

Grab = An individual sample collected over a period of time not to exceed 15-minutes.

Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

A. Effluent Limitations and Monitoring Requirements

10. Outfall 202 – Unit 6 Cooling Tower Blowdown

a. During the period beginning with the permit's effective date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 202. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	1/D-M	Estimate
pH	NA	NA	6.0 S.U.	9.0 S.U.	1/D-W	Grab
Free Available Chlorine[3]	0.2 mg/L	NA	NA	0.5 mg/L	1/D-W	Grab
Total Nitrogen[4,5]	NL (mg/L)	NA	NA	NA	1/3M	Calculated
Total Phosphorus[5]	NL (mg/L)	NA	NA	NA	1/3M	Grab
Total Chromium[7]	0.2 mg/L	NA	NA	0.2 mg/L	1/D-M	Grab
Total Zinc[7]	1.0 mg/L	NA	NA	1.0 mg/L	1/D-M	Grab
126 Priority Pollutants[6] (Appendix A of 40 CFR Part 423)	Non-Detectable	NA	NA	Non-Detectable	1/D-Y	Grab

(1) See Part I.B.
(2) Average flow is 0.91 MGD.
(3) While chlorinating the Unit 6 cooling tower. See Part I.B.1 for additional requirements.
(4) Total Nitrogen is the sum of Total Kjeldahl Nitrogen and NO_2+NO_3 and shall be calculated from the results of those tests.
(5) Sampling of the parameter (either Total Nitrogen or Total Phosphorus) shall be conducted on the same date as sampling for the parameter at the intake and Outfall 001/002 locations.
(6) See Part I.F.8.
(7) The following Quantification Levels (QLs) are applicable: Chromium – 13 µg/L; Zinc - 50 µg/L.

MGD = Million gallons per day.
NA = Not applicable.
NL = No limit; monitor and report.
S.U. = Standard units.
1/D-W = Once per week in which there is a discharge.
1/D-M = Once per month in which there is a discharge.
1/D-Y = Once per year in which there is a discharge.
1/3M = Once every three months in which there is a discharge.

1/3M = The quarterly monitoring periods shall be January 1 – March 31, April 1 – June 30, July 1 – September 30, and October 1 – December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (April 10, July 10, October 10 and January 10, respectively).

1/D-Y = The annual monitoring period shall be January 1 - December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (January 10).

Grab = An individual sample collected over a period of time not to exceed 15-minutes.

Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

A. Effluent Limitations and Monitoring Requirements

11. Outfall 501 – Metals Cleaning Waste Treatment Basin

a. During the period beginning with the permit's effective date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 501. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	1/D-M	Estimate
Oil and Grease (O&G)	15 mg/L	NA	NA	20 mg/L	1/D-M	Grab
Total Suspended Solids (TSS)[3]	30 mg/L	NA	NA	100 mg/L	1/D-M	Grab
Total Iron[3]	1.0 mg/L	NA	NA	1.0 mg/L	1/D-M	Grab
Total Copper[3]	1.0 mg/L	NA	NA	1.0 mg/L	1/D-M	Grab

(1) See Part I.B.
(2) Average flow is 1.04 MGD.
(3) The following Quantification Levels (QLs) are applicable: TSS – 1.0 mg/L; Iron – 1.0 µg/L; Copper – 5.4 µg/L.

MGD = Million gallons per day.
NA = Not applicable.
NL = No limit; monitor and report.
1/D-M = Once per month in which there is a discharge.

Grab = An individual sample collected over a period of time not to exceed 15-minutes.
Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

A. Effluent Limitations and Monitoring Requirements

12. Outfall 502 – Oily Waste Treatment Basin

a. During the period beginning with the permit's effective date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 502. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	2/M	Estimate
Oil and Grease (O&G)	15 mg/L	NA	NA	20 mg/L	2/M	Grab
Total Suspended Solids (TSS)[6]	30 mg/L	NA	NA	100 mg/L	2/M	Grab
Total Petroleum Hydrocarbons (TPH)[3]	NL (mg/L)	NA	NA	NL (mg/L)	2/M	Grab
Total Petroleum Hydrocarbons – Oil Range Organics (ORO)[4,5]	NL (mg/L)	NA	NA	NL (mg/L)	2/M	Grab

(1) See Part I.B.

(2) Average flow is 0.57 MGD.

(3) TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015 for gasoline and diesel range organics, or by EPA SW 846 Methods 8260 Extended and 8270 Extended.

MGD = Million gallons per day.
NA = Not applicable.
NL = No limit; monitor and report.
2/M = Twice every month.

(4) Total Petroleum Hydrocarbons – Oil Range Organics (ORO) shall be measured by EPA SW 846 Method 8015B or any other Virginia Environmental Laboratory Accreditation Program (VELAP) approved method.

(5) The permittee shall sample and submit TPH-ORO results at the frequency of twice per month for one year. If all reported results for TPH-ORO do not exceed the QL for TPH (0.50 mg/L), the permittee may submit a written request to DEQ-NRO for a reduction in the sampling frequency to once per quarter.

Upon approval, the permittee shall collect one (1) sample during one month within each quarterly monitoring period. The quarterly monitoring periods shall be January through March, April through June, July through September and October through December. The sample shall be analyzed for TPH-ORO and the results shall be submitted on the DMR no later than the 10th day of the month following the quarterly monitoring period.

Should any of the quarterly monitoring results for TPH-ORO exceed the QL for TPH (0.50 mg/L), the monitoring frequency shall revert to twice per month for the remainder of the permit term.

(6) The following Quantification Level (QLs) is applicable: TSS – 1.0 mg/L.

Grab = An individual sample collected over a period of time not to exceed 15-minutes.
Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

A. Effluent Limitations and Monitoring Requirements

13. Internal Outfall 503 – (Comingled Process Water, Ash Dewatering Water, Contact Water (Interim) / Ash Pond D Underdrain / Outfall 010 / Internal Outfall 501 (Final)) – When Routed to Outfall 001/002 or Outfall 004

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the commencement of facility dewatering activities and lasting until the completion of dewatering and/or installation of the underdrain, or the expiration date, whichever occurs first, the permittee is authorized to discharge from Internal Outfall Number 503. The limitations below are applicable when the discharge from Internal Outfall 503 is routed to Outfall 001/002 or Outfall 004. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements[5,6]	
	Monthly Average[1,7]	Daily Maximum[1,7]	Minimum[7]	Maximum[1,7]	Frequency	Sample Type
Flow[2] (MGD)	NA	NA	NA	2.88	3/W	Estimate
pH	NA	NA	6.0 S.U.	9.0 S.U.	3/W	Grab
Total Suspended Solids (TSS)[4]	30 mg/L	100 mg/L	NA	NA	3/W	4H-C
Oil and Grease (O&G)	15 mg/L	20 mg/L	NA	NA	3/W	4H-C
Aluminum, Dissolved	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Antimony, Total Recoverable[4]	1300 µg/L	1300 µg/L	NA	NA	3/W	4H-C
Arsenic, Total Recoverable[4]	240 µg/L	440 µg/L	NA	NA	3/W	4H-C
Barium, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Beryllium, Dissolved	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Boron, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Cadmium, Total Recoverable[4]	1.4 µg/L	2.6 µg/L	NA	NA	3/W	4H-C
Chloride	370,000 µg/L	670,000 µg/L	NA	NA	3/W	4H-C
Chromium III, Total Recoverable[4]	88 µg/L	160 µg/L	NA	NA	3/W	4H-C
Chromium VI, Total Recoverable[4]	17 µg/L	32 µg/L	NA	NA	3/W	4H-C
Cobalt, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Copper, Total Recoverable[4]	9.6 µg/L	18 µg/L	NA	NA	3/W	4H-C
Iron, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Lead, Total Recoverable[4]	14 µg/L	26 µg/L	NA	NA	3/W	4H-C
Mercury, Total Recoverable[4]	1.2 µg/L	2.2 µg/L	NA	NA	3/W	4H-C
Molybdenum, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Nickel, Total Recoverable[4]	24 µg/L	44 µg/L	NA	NA	3/W	4H-C
Selenium, Total Recoverable[4]	8.0 µg/L	15 µg/L	NA	NA	3/W	4H-C
Silver, Total Recoverable[4]	2.2 µg/L	4.0 µg/L	NA	NA	3/W	4H-C
Thallium, Total Recoverable[4]	0.94 µg/L	0.94 µg/L	NA	NA	3/W	4H-C
Vanadium, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Zinc, Total Recoverable[4]	98 µg/L	180 µg/L	NA	NA	3/W	4H-C
Hardness, Total (as $CaCO_3$)	NL (mg/L)	NL (mg/L)	NA	NA	3/W	4H-C
Acute Toxicity – *C. dubia* ($_{NOAEC}$)[3]	NA	NA	100%	NA	1/M	24H-C
Acute Toxicity – *P. promelas* ($_{NOAEC}$)[3]	NA	NA	100%	NA	1/M	24H-C
Chronic Toxicity – *C. dubia* (TU_c)[3]	NA	NA	NA	2.85 TU_c	1/M	24H-C
Chronic Toxicity – *P. promelas* (TU_c)[3]	NA	NA	NA	2.85 TU_c	1/M	24H-C

A. Effluent Limitations and Monitoring Requirements

13. Internal Outfall 503 – (Comingled Process Water, Ash Dewatering Water, Contact Water (Interim) / Ash Pond D Underdrain / Outfall 010 / Internal Outfall 501 (Final)) – When Routed to Outfall 001/002 or Outfall 004 – Continued

(1) See Part I.B.

(2) Average flow is 2.53 MGD; Maximum flow is 2.88 MGD

(3) See Part I.C for whole effluent toxicity requirements.

(4) The following Quantification Levels (QLs) are applicable: TSS – 1.0 mg/L; Antimony – 5.0 µg/L; Arsenic – 5.0 µg/L; Cadmium – 0.88 µg/L; Chromium III – 5.0 µg/L; Chromium VI – 5.0 µg/L; Copper – 5.0 µg/L; Lead – 5.0 µg/L; Mercury – 0.1 µg/L; Nickel – 5.0 µg/L; Selenium – 5.0 µg/L; Silver – 0.4 µg/L; Thallium – 0.47 µg/L; Zinc – 25 µg/L. The permittee may provide documentation that demonstrates the QLs listed for Cadmium and Thallium are not achievable. Based upon review of this documentation the Department may establish higher QLs for Cadmium and Thallium in accordance with 40 CFR 122.44(i)(1)(iv).

MGD = Million gallons per day.

NA = Not applicable.

NL = No limit; monitor and report.

S.U. = Standard units.

3/W = Three days per week.

1/M = Once every month.

(5) Sampling for the parameters identified with a monitoring frequency of "3/W" for Internal Outfall 503shall occur at least three (3) days per week with a minimum of 48 hours between sampling events. A sampling week extends Sunday through Saturday. The permittee shall contract to receive results for parameters identified with a monitoring frequency of "3/W" within four business days of taking the sample. Results of the weekly sampling shall be reported to DEQ no later than the close of business Friday of the week following sample collection. This reporting requirement does not substitute for, or alter, Part II.C concerning the monthly reporting of monitoring results with the Discharge Monitoring Report.

(6) The composite period for the parameters identified with a monitoring frequency of "1/M" shall occur within the composite period for the Whole Effluent Toxicity monitoring.

(7) The permittee shall immediately cease the discharge upon becoming aware of an exceedance of an established effluent limit and/or WET limit at Internal Outfall 503. See Part I.F.20 for additional requirements.

Grab = An individual sample collected over a period of time not to exceed 15-minutes.

Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

Metals and Total Hardness Requirements:

Samples for all metals and total hardness shall be collected concurrently.

4H-C= A flow proportional composite sample collected manually or automatically, and discretely or continuously, for the entire discharge of the monitored 4 (four)-hour period. Where discrete sampling is employed, the permittee shall collect a minimum of 4 (four) aliquots for compositing. Discrete sampling may be flow proportioned either by varying the time interval between each aliquot or the volume of each aliquot. Time composite samples consisting of a minimum 4 (four) grab samples obtained at hourly or smaller intervals may be collected where the permittee demonstrates that the discharge flow rate (gallons per minute) does not vary by ≥10% or more during the monitored discharge.

24H-C= A flow proportional composite sample collected manually or automatically, and discretely or continuously, for the entire discharge of the monitored 24 (twenty-four)-hour period. Where discrete sampling is employed, the permittee shall collect a minimum of 24 (twenty-four) aliquots for compositing. Discrete sampling may be flow proportioned either by varying the time interval between each aliquot or the volume of each aliquot. Time composite samples consisting of a minimum 24 (twenty-four) grab samples obtained at hourly or smaller intervals may be collected where the permittee demonstrates that the discharge flow rate (gallons per minute) does not vary by ≥10% or more during the monitored discharge.

A. Effluent Limitations and Monitoring Requirements

14. Internal Outfall 503 – (Comingled Process Water, Ash Dewatering Water, Contact Water (Interim) / Ash Pond D Underdrain / Outfall 010 / Internal Outfall 501 (Final)) – When Routed to Outfall 005

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the commencement of facility dewatering activities and lasting until the completion of dewatering and/or installation of the underdrain, or the expiration date, whichever occurs first, the permittee is authorized to discharge from Internal Outfall Number 503. The limitations below are applicable when the discharge from Internal Outfall 503 is routed to Outfall 005. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements[5,6]	
	Monthly Average[1,7]	Daily Maximum[1,7]	Minimum[7]	Maximum[1,7]	Frequency	Sample Type
Flow[2] (MGD)	NA	NA	NA	2.88	3/W	Estimate
pH	NA	NA	6.0 S.U.	9.0 S.U.	3/W	Grab
Total Suspended Solids (TSS)[4]	30 mg/L	100 mg/L	NA	NA	3/W	4H-C
Oil and Grease (O&G)	15 mg/L	20 mg/L	NA	NA	3/W	4H-C
Aluminum, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Antimony, Total Recoverable[4]	640 µg/L	640µg/L	NA	NA	3/W	4H-C
Arsenic, Total Recoverable[4]	120 µg/L	220 µg/L	NA	NA	3/W	4H-C
Barium, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Beryllium, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Boron, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Cadmium, Total Recoverable[4]	0.88 µg/L	1.6 µg/L	NA	NA	3/W	4H-C
Chloride	180,000 µg/L	340,000 µg/L	NA	NA	3/W	4H-C
Chromium III, Total Recoverable[4]	59 µg/L	110 µg/L	NA	NA	3/W	4H-C
Chromium VI, Total Recoverable[4]	8.7 µg/L	16 µg/L	NA	NA	3/W	4H-C
Cobalt, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Copper, Total Recoverable[4]	7.1 µg/L	13 µg/L	NA	NA	3/W	4H-C
Iron, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Lead, Total Recoverable[4]	11 µg/L	20 µg/L	NA	NA	3/W	4H-C
Mercury, Total Recoverable[4]	0.61 µg/L	1.1 µg/L	NA	NA	3/W	4H-C
Molybdenum, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Nickel, Total Recoverable[4]	16 µg/L	29 µg/L	NA	NA	3/W	4H-C
Selenium, Total Recoverable[4]	4.0 µg/L	7.3 µg/L	NA	NA	3/W	4H-C
Silver, Total Recoverable[4]	1.8 µg/L	3.4 µg/L	NA	NA	3/W	4H-C
Thallium, Total Recoverable[4]	0.47 µg/L	0.47 µg/L	NA	NA	3W	4H-C
Vanadium, Total Recoverable	NL (µg/L)	NL (µg/L)	NA	NA	1/M	4H-C
Zinc, Total Recoverable[4]	65 µg/L	120 µg/L	NA	NA	3/W	4H-C
Hardness, Total (as $CaCO_3$)	NL (mg/L)	NL (mg/L)	NA	NA	3/W	4H-C
Acute Toxicity – *C. dubia* ($_{NOAEC}$)[3]	NA	NA	100%	NA	1/M	24H-C
Acute Toxicity – *P. promelas* ($_{NOAEC}$)[3]	NA	NA	100%	NA	1/M	24H-C
Chronic Toxicity – *C. dubia* (TU_c)[3]	NA	NA	NA	1.44 TU_c	1/M	24H-C
Chronic Toxicity – *P. promelas* (TU_c)[3]	NA	NA	NA	1.44 TU_c	1/M	24H-C

A. Effluent Limitations and Monitoring Requirements

14. Internal Outfall 503 – (Comingled Process Water, Ash Dewatering Water, Contact Water (Interim) / Ash Pond D Underdrain / Outfall 010 / Internal Outfall 501 (Final)) – When Routed to Outfall 005 - Continued

(1) See Part I.B.

(2) Average flow is 2.53 MGD; Maximum flow is 2.88 MGD

(3) See Part I.C for whole effluent toxicity requirements.

(4) The following Quantification Levels (QLs) are applicable: TSS – 1.0 mg/L; Antimony – 5.0 µg/L; Arsenic – 5.0 µg/L; Cadmium – 0.88 µg/L; Chromium III – 5.0 µg/L; Chromium VI – 5.0 µg/L; Copper – 5.0 µg/L; Lead – 5.0 µg/L; Mercury – 0.1 µg/L; Nickel – 5.0 µg/L; Selenium – 5.0 µg/L; Silver – 0.4 µg/L; Thallium – 0.47 µg/L; Zinc – 25 µg/L. The permittee may provide documentation that demonstrates the QLs listed for Cadmium and Thallium are not achievable. Based upon review of this documentation the Department may establish higher QLs for Cadmium and Thallium in accordance with 40 CFR 122.44(i)(1)(iv).

MGD = Million gallons per day.
NA = Not applicable.
NL = No limit; monitor and report.
S.U. = Standard units.
3/W = Three days per week.
1/M = Once every month.

(5) Sampling for the parameters identified with a monitoring frequency of "3/W" for Internal Outfall 503 shall occur at least three (3) days per week with a minimum of 48 hours between sampling events. A sampling week extends Sunday through Saturday. The permittee shall contract to receive results for parameters identified with a monitoring frequency of "3/W" within four business days of taking the sample. Results of the weekly sampling shall be reported to DEQ no later than the close of business Friday of the week following sample collection. This reporting requirement does not substitute for, or alter, Part II.C concerning the monthly reporting of monitoring results with the Discharge Monitoring Report.

(6) The composite period for the parameters identified with a monitoring frequency of "1/M" shall occur within the composite period for the Whole Effluent Toxicity monitoring.

(7) The permittee shall immediately cease the discharge upon becoming aware of an exceedance of an established effluent limit and/or WET limit at Internal Outfall 503. See Part I.F.20 for additional requirements.

Grab = An individual sample collected over a period of time not to exceed 15-minutes.

Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

Metals and Total Hardness Requirements:

Samples for all metals and total hardness shall be collected concurrently.

4H-C= A flow proportional composite sample collected manually or automatically, and discretely or continuously, for the entire discharge of the monitored 4 (four)-hour period. Where discrete sampling is employed, the permittee shall collect a minimum of 4 (four) aliquots for compositing. Discrete sampling may be flow proportioned either by varying the time interval between each aliquot or the volume of each aliquot. Time composite samples consisting of a minimum 4 (four) grab samples obtained at hourly or smaller intervals may be collected where the permittee demonstrates that the discharge flow rate (gallons per minute) does not vary by ≥10% or more during the monitored discharge.

24H-C= A flow proportional composite sample collected manually or automatically, and discretely or continuously, for the entire discharge of the monitored 24 (twenty-four)-hour period. Where discrete sampling is employed, the permittee shall collect a minimum of 24 (twenty-four) aliquots for compositing. Discrete sampling may be flow proportioned either by varying the time interval between each aliquot or the volume of each aliquot. Time composite samples consisting of a minimum 24 (twenty-four) grab samples obtained at hourly or smaller intervals may be collected where the permittee demonstrates that the discharge flow rate (gallons per minute) does not vary by ≥10% or more during the monitored discharge.

A. Effluent Limitations and Monitoring Requirements

15. Outfall S107 –Stormwater from Base of Ash Pond D Impoundment

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with written approval from DEQ that Outfall 010 is comprised only of stormwater discharges in accordance with Part I.F.23, and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number S107.

c. Outfall S107 discharges shall be limited, monitored and managed by the permittee as specified below, and in accordance with Part I.E. and Part I.F.18 of this permit.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	1/3M	Estimate
pH	NA	NA	6.0 (S.U.)	9.0 (S.U.)	1/3M	Grab
Total Suspended Solids (TSS)[3]	NL	NL(mg/L)	NA	NA	1/3M	Grab
Oil and Grease (O&G)	NL	NL (mg/L)	NA	NA	1/3M	Grab
Specific Conductivity	NA	NA	NA	NL (µhoms/cm)	1/3M	Grab
Aluminum, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Antimony, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Arsenic, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Barium, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Beryllium, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Boron, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Cadmium, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Chloride	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Chromium III, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Chromium VI, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Cobalt, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Copper, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Iron, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Lead, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Mercury, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Molybdenum, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Nickel, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Selenium, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Silver, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Thallium, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Vanadium, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Zinc, Total Recoverable[3]	NL (µg/L)	NL (µg/L)	NA	NA	1/3M	Grab
Hardness, Total (as $CaCO_3$)	NL (mg/L)	NL (mg/L)	NA	NA	1/3M	Grab

A. Effluent Limitations and Monitoring Requirements

15. Outfall S107 –Stormwater from Base of Ash Pond D – Continued

(1) See Part I.B.

MGD = Million gallons per day.
NA = Not applicable.

(2) Average flow is variable.

)

(3) The following Quantification Levels (QLs) are applicable: TSS – 1.0 mg/L; Antimony – 5.0 µg/L; Arsenic – 5.0 µg/L; Cadmium – 0.88 µg/L; Chromium III – 5.0 µg/L; Chromium VI – 5.0 µg/L; Copper – 5.0 µg/L; Lead – 5.0 µg/L; Mercury – 0.1 µg/L; Nickel – 5.0 µg/L; Selenium – 5.0 µg/L; Silver – 0.4 µg/L; Thallium – 0.47 µg/L; Zinc – 25 µg/L. The permittee may provide documentation that demonstrates the QLs listed for Cadmium and Thallium are not achievable. Based upon review of this documentation the Department may establish higher QLs for Cadmium and Thallium in accordance with 40 CFR 122.44(i)(1)(iv).

1/3M = Once every 3 months in which there is a discharge. The quarterly monitoring periods shall be January 1 – March 31, April 1 – June 30, July 1 – September 30, and October 1 – December 31. The DMR shall be submitted no later than the 10th day of the month following the monitoring period (April 10, July 10, October 10 and January 10, respectively).

Grab = An individual sample collected over a period of time not to exceed 15-minutes.

Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

Metals and Total Hardness Requirements:

Samples for all metals and total hardness shall be collected concurrently.

A. Stormwater Monitoring Requirements

16. Outfalls S5, S31, S35, S36, S37, S42, S49, S61, S77, S78, S79, S80, S86, S94, S95, and S108 - Storm Water

a. During the period beginning with the permit's major modification date and lasting until the expiration date, the permittee is authorized to discharge storm water from Outfalls S5, S31, S35, S36, S37, S42, S49, S61, S77, S78, S79, S80, S86, S94, S95, and S108. Such discharges shall be monitored and managed in accordance with Part 1.E.

b. In addition to the requirements established in Part I.E of the permit, Outfall S108 shall be monitored and managed in accordance with Part I.F.18 of the permit.

Outfalls S78, S79, S80, S86, and S94 shall only contain stormwater not exposed to industrial activity.

Outfalls S5, S31, S35, S36, S37, S42, S49, S61, S77, S95, and S108 shall only contain stormwater influenced by industrial activity.

The following industrially influenced storm water outfalls have been deemed representative:

- Outfall S5 is deemed representative of Outfall S31 Outfall S35.
- Outfall S42 is deemed representative of Outfalls S49 and S77.
- Outfall S61 is deemed representative of Outfalls S36 and S37.

A. Effluent Limitations and Monitoring Requirements

17. Groundwater Monitoring (Monitoring Wells ED-1, ED-3, ED-9R, ED-15, ED-24R, ED-32, ES-1, ES-3a, ES-4)

a. During the period beginning with the permit's major modification date, and lasting until the permit expiration date, the permittee is authorized to manage pollutants at Ash Pond D and Ash Pond E. The groundwater shall be monitored by the permittee as specified below except where groundwater monitoring is superseded pursuant to Part I.D. 5 of the permit.

Observation Wells					
Ash Pond D	Stratum D	ED-1, ED-3, ED-9R, ED-15, ED-24R, ED-32	Ash Pond E	Stratum E	ES-1, ES-3a, ES-4

PARAMETER	GROUNDWATER MONITORING		MONITORING REQUIREMENTS	
	Limitations	Units	Frequency[1]	Sample Type
Static Water Level (mean sea level)	NL	Feet	Semi-Annual	Measurement
pH	NL	Standard Units	Semi-Annual	Grab
Conductivity	NL	µmhos/cm	Semi-Annual	Grab
Hardness (as $CaCO_3$)	NL	mg/L	Semi-Annual	Grab
Chlorides	NL	mg/L	Semi-Annual	Grab
Fluoride	NL	mg/L	Semi-Annual	Grab
Sodium	NL	mg/L	Semi-Annual	Grab
Potassium	NL	mg/L	Semi-Annual	Grab
Sulfate	NL	mg/L	Semi-Annual	Grab
Total Organic Carbon	NL	mg/L	Semi-Annual	Grab
Temperature	NL	°C	Semi-Annual	Grab
Dissolved Arsenic	NL	µg/L	Semi-Annual	Grab
Dissolved Barium	NL	µg/L	Semi-Annual	Grab
Dissolved Cadmium	NL	µg/L	Semi-Annual	Grab
Dissolved Copper	NL	µg/L	Semi-Annual	Grab
Dissolved Iron	NL	µg/L	Semi-Annual	Grab
Dissolved Lead	NL	µg/L	Semi-Annual	Grab
Dissolved Manganese	NL	µg/L	Semi-Annual	Grab
Dissolved Mercury	NL	µg/L	Semi-Annual	Grab
Dissolved Nickel	NL	µg/L	Semi-Annual	Grab
Dissolved Selenium	NL	µg/L	Semi-Annual	Grab
Dissolved Silver	NL	µg/L	Semi-Annual	Grab
Dissolved Vanadium	NL	µg/L	Semi-Annual	Grab
Dissolved Zinc	NL	µg/L	Semi-Annual	Grab
Phenol	NL	mg/L	Semi-Annual	Grab

[1] The semi-annual monitoring period shall be January 1 – June 30 and July 1 - December 31.

NL = No limit; monitor and report.

Grab = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

A. Effluent Limitations and Monitoring Requirements

18. Groundwater Monitoring (Monitoring Wells ED-4, ED-5, ED-17, ED-26, ED-31, ED-33)

a. During the period beginning with the permit's major modification date, and lasting until the permit expiration date, the permittee is authorized to manage pollutants at Ash Pond D and Ash Pond E. The groundwater shall be monitored by the permittee as specified below except where groundwater monitoring is superseded pursuant to Part I.D. 5 of the permit.

Observation Wells		
Ash Pond D and Ash Pond E	Stratum B	ED-4, ED-5, ED-17
	Stratum E	ED-31
	Stratum F	ED-26, ED-33

PARAMETER	GROUNDWATER MONITORING		MONITORING REQUIREMENTS	
	Limitations	Units	Frequency[1]	Sample Type
Static Water Level (mean sea level)	NL	Feet	Annual	Measurement
pH	NL	Standard Units	Annual	Grab
Conductivity	NL	µmhos/cm	Annual	Grab
Hardness (as $CaCO_3$)	NL	mg/L	Annual	Grab
Chlorides	NL	mg/L	Annual	Grab
Fluoride	NL	mg/L	Annual	Grab
Sodium	NL	mg/L	Annual	Grab
Potassium	NL	mg/L	Annual	Grab
Sulfate	NL	mg/L	Annual	Grab
Total Organic Carbon	NL	mg/L	Annual	Grab
Temperature	NL	°C	Annual	Grab
Dissolved Arsenic	NL	µg/L	Annual	Grab
Dissolved Barium	NL	µg/L	Annual	Grab
Dissolved Cadmium	NL	µg/L	Annual	Grab
Dissolved Copper	NL	µg/L	Annual	Grab
Dissolved Iron	NL	µg/L	Annual	Grab
Dissolved Lead	NL	µg/L	Annual	Grab
Dissolved Manganese	NL	µg/L	Annual	Grab
Dissolved Mercury	NL	µg/L	Annual	Grab
Dissolved Nickel	NL	µg/L	Annual	Grab
Dissolved Selenium	NL	µg/L	Annual	Grab
Dissolved Silver	NL	µg/L	Annual	Grab
Dissolved Vanadium	NL	µg/L	Annual	Grab
Dissolved Zinc	NL	µg/L	Annual	Grab
Phenol	NL	mg/L	Annual	Grab

[1] The annual monitoring period shall be January 1 – December 31. NL = No limit; monitor and report.

Grab = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

A. Effluent Limitations and Monitoring Requirements

19. Groundwater Monitoring (Monitoring Wells OWB-1, OWB-2, OWB-3, OWB-4, and OWB-5)

a. During the period beginning with the permit's effective date and lasting until the permit expiration date, the permittee is authorized to manage pollutants at the Oily Waste Treatment Basin. The groundwater shall be monitored by the permittee as specified below.

Observation Wells	
Oily Waste Treatment Basin	OWB-1, OWB-2, OWB-3, OWB-4, and OWB-5

PARAMETER	GROUNDWATER MONITORING		MONITORING REQUIREMENTS	
	Limitations	Units	Frequency[1]	Sample Type
Static Water Level (mean sea level)	NL	Feet	Semi-Annual	Measurement
pH	NL	Standard Units	Semi-Annual	Grab
Conductivity	NL	µmhos/cm	Semi-Annual	Grab
Hardness (as $CaCO_3$)	NL	mg/L	Semi-Annual	Grab
Chlorides	NL	mg/L	Semi-Annual	Grab
Fluoride	NL	mg/L	Semi-Annual	Grab
Sodium	NL	mg/L	Semi-Annual	Grab
Potassium	NL	mg/L	Semi-Annual	Grab
Sulfate	NL	mg/L	Semi-Annual	Grab
Total Organic Carbon	NL	mg/L	Semi-Annual	Grab
Temperature	NL	°C	Semi-Annual	Grab
Dissolved Arsenic	NL	µg/L	Semi-Annual	Grab
Dissolved Barium	NL	µg/L	Semi-Annual	Grab
Dissolved Cadmium	NL	µg/L	Semi-Annual	Grab
Dissolved Copper	NL	µg/L	Semi-Annual	Grab
Dissolved Iron	NL	µg/L	Semi-Annual	Grab
Dissolved Lead	NL	µg/L	Semi-Annual	Grab
Dissolved Manganese	NL	µg/L	Semi-Annual	Grab
Dissolved Mercury	NL	µg/L	Semi-Annual	Grab
Dissolved Nickel	NL	µg/L	Semi-Annual	Grab
Dissolved Selenium	NL	µg/L	Semi-Annual	Grab
Dissolved Silver	NL	µg/L	Semi-Annual	Grab
Dissolved Vanadium	NL	µg/L	Semi-Annual	Grab
Dissolved Zinc	NL	µg/L	Semi-Annual	Grab
Phenol	NL	mg/L	Semi-Annual	Grab
Total Petroleum Hydrocarbons - Diesel Range Organics[2]	NL	mg/L	Semi-Annual	Grab
Total Petroleum Hydrocarbons - Oil Range Organics[3]	NL	mg/L	Semi-Annual	Grab
Benzene	NL	mg/L	Semi-Annual	Grab
Ethylbenzene	NL	mg/L	Semi-Annual	Grab
Toluene	NL	mg/L	Semi-Annual	Grab
Total Xylenes	NL	mg/L	Semi-Annual	Grab

[1] The semi-annual monitoring period shall be January 1 – June 30 and July 1 - December 31.

NL = No limit; monitor and report.

[2] Total Petroleum Hydrocarbons (TPH) is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015 for gasoline and diesel range organics, or by EPA SW 846 Methods 8260 Extended and 8270 Extended.

[3] Total Petroleum Hydrocarbons – Oil Range Organics (ORO) shall be measured by EPA SW 846 Method 8015B or any other Virginia Environmental Laboratory Accreditation Program (VELAP) approved method.

Grab = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

B. Additional Monitoring Requirements, Quantification Levels and Compliance Reporting

1. Additional Total Residual Chlorine (TRC) Limitations and Monitoring Requirements

   a. Neither free available nor total residual chlorine may be discharged from Units 3, 4, 5, and 6 for more than two hours in any one day, unless the permittee demonstrates to the Department of Environmental Quality (DEQ) that discharge for more than two hours is required for macroinvertebrate control. If the permittee is dechlorinating, the two hour requirement is nullified.

   b. Simultaneous multi-unit chlorination is permitted.

   c. Monitoring for free available and/or total residual chlorine shall only be required when the permittee is chlorinating.

2. Quantification Levels

   a. The quantification levels (QL) shall be less than or equal to those concentrations noted in Part I.A.1 through Part I.A.14 of this permit, respectively. For those parameters where a specific QL is not listed, the QL is at the discretion of the permittee. The selected QL shall be able to demonstrate compliance with established limitations.

   b. The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method. The permittee shall use any method in accordance with Part II. A of this permit.

   c. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained.

3. Compliance Reporting for parameters in Part I.A.

   a. Monthly Average – Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.B.2.a of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in Part I.B.2.a above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis (QL must be less than or equal to the QL listed in Part I.B.2.a above) shall be treated as it is reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL used for the analysis (QL must be less than or equal to the QL listed in Part I.B.2.a above), then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported monthly average concentration is <QL, then report "<QL" for the quantity. Otherwise use the reported concentration data (including the defined zeros) and flow data for each sample day to determine the daily quantity and report the monthly average of the calculated daily quantities.

b. Daily Maximum - Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in Part I.B.2.a of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in Part I.B.2.a above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis (QL must be less than or equal to the QL listed in Part I.B.2.a above) shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL used for the analysis (QL must be less than or equal to the QL listed in Part I.B.2.a above), then the maximum value of the daily averages shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported daily maximum is <QL, then report "<QL" for the quantity. Otherwise use the reported daily average concentrations (including the defined zeros) and corresponding daily flows to determine daily average quantities and report the maximum of the daily average quantities during the reporting month.

c. Single Datum - Any single datum required shall be reported as "<QL" if it is less than the QL used in the analysis (QL must be less than or equal to the QL listed in Part I.B.2.a above). Otherwise the numerical value shall be reported.

d. Significant Digits - The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

C. Whole Effluent Toxicity Program Requirements

1. <u>Biological Monitoring for Outfall 001/Outfall 002, Outfall 003, and Outfall 004</u>

a. In accordance with the schedule in Part I.C.1.h. below, the permittee shall conduct annual chronic toxicity tests for the duration of the permit. The permittee shall collect grab samples of effluent from Outfall 001/ 002, Outfall 003, and Outfall 004 at each outfall's respective designated point of compliance.

The chronic tests to use are:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*

Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction or growth. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable and a retest shall be performed. The NOEC as determined by hypothesis testing shall be converted to TU_c (Chronic Toxic Units) for DMR reporting where $TU_c = 100/NOEC$. Report the LC_{50} at 48 hours and the IC_{25} with the NOEC's in the test report.

b. The permittee may provide additional samples to address data variability. These data shall be reported. Test procedures and reporting shall be in accordance with the Whole Effluent Toxicity (WET) testing methods cited in 40 CFR 136.3.

c. The test dilutions shall bracket and include the following endpoints:

Outfall 001/002, and Outfall 003: Chronic NOEC $\geq$ 35%; equivalent to a $TU_c \leq 2.85$

Outfall 004: Chronic NOEC $\geq$ 17%; equivalent to a $TU_c \leq 5.88$

d. The test data will be evaluated statistically for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee or if toxicity has been noted. Should evaluation of the data indicate that a limit is warranted, a WET limit and compliance schedule will be required.

e. The permit may be modified or revoked and reissued to include pollutant specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limitation shall control the toxicity of the effluent.

f. Should the results of any test exceed the endpoint cited above, the permittee shall conduct a retest of the effluent within 30 days.

g. Should the permittee conduct toxicity testing of the effluent prior to the compliance date listed in the schedule in Part I.C.1.h. below, the results of the test and the test report shall be reported with the DMR for the month following the receipt of the testing results. In no case shall this exceed 45 days from the completion of the test or the report submission date below, whichever may occur first.

h. Reporting Schedule

The permittee shall monitor during the specified period, shall report the results on the DMR, and shall supply one copy of the toxicity test report specified in this Whole Effluent Toxicity Program in accordance with the following schedule:

Period	Sampling Period	DMR/Report Submission Dates
Annual 1	January 1, 2013 – December 31, 2013	January 10, 2014
Annual 2	January 1, 2014 – December 31, 2014	January 10, 2015
Annual 3	January 1, 2015 – December 31, 2015	January 10, 2016
Annual 4	January 1, 2016 – December 31, 2016	January 10, 2017

2. Biological Monitoring for Internal Outfall 503, Outfall 005 (Interim Configuration) and Outfall 010

a. The Whole Effluent Toxicity (WET) limitations as set forth in Part I.A. and within this section shall be effective immediately upon initiation of the discharge at Internal Outfall 503 as in Part I.A.13 and Part I.A.14 and 30 days after the major modification date for Outfall 010 as in Part I.A.8.

b. In accordance with the schedule in Part I.C.2.d., the permittee shall conduct monthly acute and chronic toxicity tests using 24-hour flow-proportioned composite samples of final effluent from Internal Outfall 503 and Outfall 010.

The acute tests to use are:

48 Hour Static Acute test using *Ceriodaphnia dubia*

48 Hour Static Acute test using *Pimephales promelas*

These single dilution acute tests are to be conducted using a minimum of 4 replicates, with 5 organisms each, for the control and 100% effluent. The NOAEC (No Observed Adverse Effect Concentration) shall be reported as either = 100% or < 100% (less than 100%). The effluent will be in compliance if the survival of the test organisms in both the control and 100% effluent exposures equals or exceeds 90%. If the survival in the effluent is less than 90% and this value is significantly different from the control survival, as determined by hypothesis testing, the NOAEC is less than 100% and the effluent is not in compliance. Tests in which control survival is less than 90% are not acceptable. A retest of a non-acceptable test shall be performed during the same compliance period as the test it is replacing. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

The chronic tests to use are:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*

Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions) to determine the ″No Observed Effect Concentration″ (NOEC) for survival and reproduction or growth. Results which cannot be quantified (i.e., a ″less than″ NOEC value) are not acceptable and a retest shall be performed. The NOEC, as determined by hypothesis testing, shall be converted to TU_c (Chronic Toxic Units) for DMR reporting where $TU_c = 100/NOEC$. Report the LC_{50} at 48 hours and the IC_{25} with the NOEC′s in the test report.

c. The permit may be modified or revoked and reissued to include pollutant specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limitation shall control the toxicity of the effluent.

d. Reporting Schedule

The permittee shall report the results on the DMR and shall supply one (1) copy of the toxicity test report as specified in this Whole Effluent Toxicity program in accordance with the following schedule:

Monitoring Period	Testing Period	Report Submittal Dates
1st month	The first calendar month following the applicability as in Part I.A.13, Part I.A.14 and Part I.A.8.	By the 10th day of the month following the testing period.
Monthly thereafter until discharge ceases	Every calendar month following the previous month.	By the 10th day of the month following the testing period.

D. Groundwater Monitoring

1. Groundwater Monitoring Requirements

   a. The permittee shall continue sampling and reporting in accordance with Part I.A.17 through Part I.A.19 of the modified permit and the groundwater monitoring plan approved on April 9, 2012, by the DEQ Northern Regional Office. The purpose of this plan is to determine if the integrity of Ash Pond D, Ash Pond E, and the Oily Waste Treatment Basin is being maintained and to indicate if activities at the site are resulting in apparent violations or exceedances of the Board's Ground Water Standards. The permittee shall review the existing Groundwater Monitoring Plan and notify the DEQ Northern Regional Office, in writing, whether it is still accurate and complete by July 3, 2013. If the Groundwater Monitoring Plan is no longer accurate and complete, a revised Groundwater Monitoring Plan shall be submitted for approval to the DEQ Northern Regional Office by July 3, 2013. The approved plan is an enforceable part of the permit. Any future changes to the plan must be submitted for approval to the DEQ Northern Regional Office within 90 days of the changes.

   b. The permittee shall use any method in accordance with Part II. A of this permit.

2. Groundwater Reporting

   a. The permittee shall submit a Groundwater Annual Report to the DEQ Northern Regional Office by April 30th of each year.

   b. The Annual Report shall include the annual and semi-annual sampling results for that year. The Annual Report shall also include a review of the groundwater quality on the basis of background quality, Water Quality Standards, and statistical deviation thereof, as applicable with the Anti-degradation Policy for Groundwater.

3. Site Characterization Report

   a. Should data warrant, DEQ may require a Site Characterization Report for Ash Pond D, Ash Pond E and the Oily Waste Treatment Basin.

   b. The permittee shall submit the Site Characterization Report no later than three years after being notified by the regional office.

   c. The report shall include, at a minimum, an assessment of the following:
      1. The spatial extent and severity of the contamination with concentration depicted by isoconcentration maps;
      2. The cause of the contamination;
      3. Identification of both human health and environmental receptors;
      4. An assessment of risk to each receptor; and
      5. An analysis of remediation alternatives.

4. Corrective Action Plan

   a. Following review and approval of a Site Characterization Report, a Corrective Action Plan may be required by DEQ-NRO. The plan shall be due within 180 days of being notified by the regional office. The plan shall set forth the steps to be taken by the permittee to ensure that the contamination source is eliminated or that the contaminant plume is contained on the permittee's property. In addition, based on the extent of contamination, a risk analysis may be required. Once approved, this plan and/or analysis shall be incorporated into the permit by reference and become an enforceable part of this permit. The

permittee shall put into practice the corrective action plan within 180 days after it has been approved by the regional office.

5. Groundwater Monitoring-Units Subject to the Virginia Solid Waste Management Regulations Upon Closure or Post-Closure

a. Existing groundwater monitoring, corrective action and/or risk assessment plans currently in effect under this VPDES permit will remain in effect until such time that they are superseded by a groundwater monitoring program issued pursuant to the Virginia Solid Waste Management Regulations (VSWMR) (9VAC20-81-10 et seq.). The permittee shall be notified when groundwater monitoring in accordance with this provision has been superseded and within 90 days of such notification, shall submit an updated groundwater monitoring plan to reflect groundwater monitoring that will continue in accordance with the paragraph below.

Where a unit will continue to operate and is not subject to the VSWMR for closure or post-closure, groundwater monitoring shall continue in accordance with this Permit and the approved groundwater monitoring plan.

E. Storm Water Management

1. General Storm Water Special Conditions

a. Quarterly Visual Examination of Storm Water Quality

1. The permittee shall perform and document a quarterly visual examination of a storm water discharge associated with industrial activity from the industrially influenced outfalls listed in Part I.A.15 and Part A.1.16, except discharges exempted below. The examination(s) shall be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December. The visual examination shall be made during daylight hours (e.g., normal working hours). If no storm event resulted in runoff from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no runoff occurred. The documentation shall be signed and certified in accordance with Part II.K (Signatory Requirements) of this permit.

2. Visual examinations shall be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging from the facility. The examination shall document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen and other obvious indicators of storm water pollution. The examination shall be conducted in a well-lit area. No analytical tests are required to be performed on the samples. All samples (except snowmelt samples) shall be collected from the discharge resulting from a storm event that results in an actual discharge from the site (defined as a "measurable storm event"), and that occurs at least 72 hours from the previously measurable storm event. The 72-hour storm interval is waived if the permittee is able to document that less than a 72-hour interval is representative for local storm events during the sampling period. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term. If no qualifying storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no qualifying storm event occurred during daylight hours that resulted in storm water runoff during that quarter. The documentation shall be signed and certified in accordance with Part II.K (Signatory Requirements) of this permit.

3. The visual examination reports shall be maintained on-site with the Storm Water Pollution Prevention Plan (SWPPP). The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.

4. If the facility has two or more outfalls that discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, the permittee may conduct visual monitoring on the effluent of just one of the outfalls and report that the observations also-apply to the substantially identical outfall(s), provided that the permittee includes in the storm water pollution prevention plan a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)) shall be provided in the plan.

5. When the permittee is unable to conduct the visual examination due to adverse climatic conditions, the permittee shall document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

b. <u>Allowable Non-Storm Water Discharges</u>

1. The following non-storm water discharges are authorized by this permit provided the non-storm water component of the discharge is in compliance with this VPDES permit:

a) Discharges from fire fighting activities;

b) Fire hydrant flushings;

c) Potable water including water line flushings;

d) Uncontaminated air conditioning or compressor condensate;

e) Irrigation drainage;

f) Landscape watering provided all pesticides, herbicides and fertilizers have been applied in accordance with manufacturer's instructions;

g) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);

h) Routine external building wash down which does not use detergents;

i) Uncontaminated ground water or spring water;

j) Foundation or footing drains where flows are not contaminated with process materials;

k) Demineralized water from storage tanks;

l) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains); and

m) Uncontaminated river water.

2. Except for flows from fire fighting activities, the Storm Water Pollution Prevention Plan shall include:

   a) Identification of each allowable non-storm water source;

   b) The location where the non-storm water is likely to be discharged; and

   c) Descriptions of appropriate BMPs for each source.

3. If mist blown from cooling towers is included as one of the allowable non-storm water discharges from the facility, the permittee shall specifically evaluate the discharge for the presence of chemicals used in the cooling tower. The evaluation shall be included in the SWPPP.

c. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

The discharge of hazardous substances or oil in the storm water discharge(s) from the facility shall be prevented or minimized in accordance with the storm water pollution prevention plan for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 or § 62.1-44.34:19 of the Code of Virginia. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period:

1. The permittee is required to notify the Department in accordance with the requirements of Part II.G (Reports of Unauthorized Discharges) of this permit as soon as he or she has knowledge of the discharge;

2. Where a release enters a municipal separate storm sewer system (MS4), the permittee shall also notify the owner of the MS4; and

3. The storm water pollution prevention plan required by this permit shall be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan shall be modified where appropriate.

d. Additional Requirements for Salt Storage

Storage piles of salt or piles containing salt used for deicing or other commercial or industrial purposes shall be enclosed or covered to prevent exposure to precipitation. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. All salt storage piles shall be located on an impervious surface. All runoff from the pile, and/or runoff that comes in contact with salt, including under drain systems, shall be collected and contained within a bermed basin lined with concrete or other impermeable materials., or within an underground storage tank(s), or within an above ground storage tank(s), or disposed of through a sanitary sewer (with the permission of the treatment facility). A

combination of any or all of these methods may be used. In no case shall salt contaminated storm water be allowed to discharge directly to the ground or to state waters.

2. Storm Water Pollution Prevention Plan

A storm water pollution prevention plan (SWPPP) for the facility was required to be developed and implemented under the previous permit. The existing storm water pollution prevention plan shall be reviewed and modified, as appropriate, to conform to the requirements of this section. Permittees shall implement the provisions of the storm water pollution prevention plan as a condition of this permit.

The storm water pollution prevention plan requirements of this permit may be fulfilled, in part, by incorporating by reference other plans or documents such as a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act, or best management practices (BMP) programs otherwise required for the facility, provided that the incorporated plan meets or exceeds the plan requirements of Part I.E.2.b (Contents of the Plan). All plans incorporated by reference into the storm water pollution prevention plan become enforceable under this permit. If a plan incorporated by reference does not contain all of the required elements of the SWPPP of Part I.E.2.b the permittee shall develop the missing SWPPP elements and include them in the required plan.

a. Deadlines for Plan Preparation and Compliance

1. Measures That Require Construction. In cases where construction is necessary to implement measures required by the plan, the plan shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of this permit. Where a construction compliance schedule is included in the plan, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.

b. Contents of the Plan

The contents of the SWPPP shall comply with the requirements listed below. The plan shall include, at a minimum, the following items:

1. Pollution Prevention Team. The plan shall identify the staff individuals by name or title that comprise the facility's storm water pollution prevention team. The pollution prevention team is responsible for assisting the facility or plant manager in developing, implementing, maintaining, revising, and ensuring compliance with the facility's SWPPP. Specific responsibilities of each staff individual on the team shall be identified and listed.
2. Site Description. The plan shall include the following:

a) Activities at the Facility. A description of the nature of the industrial activities at the facility.

b) General Location Map. A general location map (e.g., USGS quadrangle or other map) with enough detail to identify the location of the facility and the receiving waters within one mile of the facility.

c) Site Map. A site map identifying the following:

(i) The size of the property (in acres);

(ii) The location and extent of significant structures and impervious surfaces (roofs, paved areas and other impervious areas);

(iii) Locations of all storm water conveyances including ditches, pipes, swales, and inlets, and the directions of storm water flow (use arrows to show which ways storm water will flow);

(iv) Locations of all existing structural and source control BMPs;

(v) Locations of all surface water bodies, including wetlands;

(vi) Locations of potential pollutant sources identified under Part I.E.2.b.3;

(vii) Locations where significant spills or leaks identified under Part I.E.2 b.4 have occurred;

(viii) Locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; processing and storage areas; access roads, rail cars and tracks; transfer areas for substances in bulk; and machinery;

(ix) Locations of storm water outfalls and an approximate outline of the area draining to each outfall, and location of municipal storm sewer systems, if the storm water from the facility discharges to them;

(x) Location and description of all non-storm water discharges;

(xi) Location of any storage piles containing salt used for deicing or other commercial or industrial purposes;

(xii) Locations and sources of runon to the site from adjacent property, where the runon contains significant quantities of pollutants. The permittee shall include an evaluation with the SWPPP of how the quality of the storm water running onto the facility impacts the facility's storm water discharges; and

(xiii) Storage tanks, scrap yards, general refuse areas; short and long term storage of general materials (including, but not limited to: supplies, construction materials, paint equipment, oils, fuels, used and unused solvents, cleaning materials, paint, water treatment chemicals, fertilizer, and pesticides); landfills; construction sites; and stock pile areas (such as coal or limestone piles).

d) Receiving Waters and Wetlands. The name of all surface waters receiving discharges from the site, including intermittent streams, dry sloughs, and arroyos. Provide a description of wetland sites that may receive discharges from the facility. If the facility discharges through a municipal separate storm sewer system (MS4), identify the MS4 operator, and the receiving water to which the MS4 discharges.

3. Summary of Potential Pollutant Sources. The plan shall identify each separate area at the facility where industrial materials or activities are exposed to storm water. Industrial materials or activities include, but are not limited to: material handling equipment or activities, industrial machinery, raw materials, industrial production and processes, intermediate products, byproducts, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For each separate area identified, the description shall include:

a) Activities in Area. A list of the activities (e.g., material storage, equipment fueling and cleaning, cutting steel beams); and

b) Pollutants. A list of the associated pollutant(s) or pollutant constituents (e.g., crankcase oil, zinc, sulfuric acid, cleaning solvents, etc.) for each activity. The pollutant list shall include all significant materials handled, treated, stored or disposed that have been exposed to storm water in the three years prior to the date this SWPPP was prepared or amended. The list shall include any hazardous substances or oil at the facility.

4. Spills and Leaks. The SWPPP shall clearly identify areas where potential spills and leaks that can contribute pollutants to storm water discharges can occur and their corresponding outfalls. The plan shall include a list of significant spills and leaks of toxic or hazardous pollutants that actually occurred at exposed areas, or that drained to a storm water conveyance during the three-year period prior to the date this SWPPP was prepared or amended. The list shall be updated if significant spills or leaks occur in exposed areas of the facility during the term of the permit. Significant spills and leaks include releases of oil or hazardous substances in excess of reportable quantities, and may also include releases of oil or hazardous substances that are not in excess of reporting requirements.

5. Sampling Data. The plan shall include a summary of existing storm water discharge sampling data taken at the facility. The summary shall include, at a minimum, any data collected during the previous permit term.

6. Storm Water Controls.

a) BMPs shall be implemented for all the areas identified in Part I.E.2.b.3 (Summary of Potential Pollutant Sources) to prevent or control pollutants in storm water discharges from the facility. All reasonable steps shall be taken to control or address the quality of discharges from the site that may not originate at the facility. The SWPPP shall describe the type, location and implementation of all BMPs for each area where industrial materials or activities are exposed to storm water. Selection of BMPs shall take into consideration:

(i) That preventing storm water from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from storm water;

(ii) BMPs generally shall be used in combination with each other for most effective water quality protection;

(iii) Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures;

(iv) That minimizing impervious areas at the facility can reduce runoff and improve groundwater recharge and stream base flows in local streams (however, care shall be taken to avoid ground water contamination);

(v) Flow attenuation by use of open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows;

(vi) Conservation or restoration of riparian buffers will help protect streams from storm water runoff and improve water quality; and

(vii) Treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.

b) Control Measures. The permittee shall implement the following types of BMPs to prevent and control pollutants in the storm water discharges from the facility, unless it can be demonstrated and documented that such controls are not relevant to the discharges (e.g., there are no storage piles containing salt).

(i) Good Housekeeping. The permittee shall keep clean all exposed areas of the facility that are potential sources of pollutants to storm water discharges. Typical problem areas include areas around trash containers, storage areas, loading docks, and vehicle fueling and maintenance areas. The plan shall include a schedule for regular pickup and disposal of waste materials, along with routine inspections for leaks and conditions of drums, tanks and containers. The introduction of raw, final or waste materials to exposed areas of the facility shall be minimized to the maximum extent practicable. The generation of dust, along with off-site vehicle tracking of raw, final or waste materials, or sediments, shall be minimized to the maximum extent practicable.

(ii) Eliminating and Minimizing Exposure. To the extent practicable, industrial materials and activities shall be located inside, or protected by a storm-resistant covering to prevent exposure to rain, snow, snowmelt, and runoff. Note: Eliminating exposure at all industrial areas may make the facility eligible for the "Conditional Exclusion for No Exposure" provision of 9VAC25-31-120 E, thereby eliminating the need to have a permit.

(iii) Preventive Maintenance. The permittee shall have a preventive maintenance program that includes regular inspection, testing, maintenance and repairing of all industrial equipment and systems to avoid breakdowns or failures that could result in leaks, spill and other releases. This program is in addition to the specific BMP maintenance required under Part I.E.2.c (Maintenance of BMPs).

(iv) Spill Prevention and Response Procedures. The plan shall describe the procedures that will be followed for preventing and responding to spills and leaks.

(a) Preventive measures include barriers between material storage and traffic areas, secondary containment provisions, and procedures for material storage and handling.

(b) Response procedures shall include notification of appropriate facility personnel, emergency agencies, and regulatory agencies, and procedures for stopping, containing and cleaning up spills. Measures for cleaning up hazardous material spills or leaks shall be consistent with applicable RCRA regulations at 40 CFR Part 264 and 40 CFR Part 265. Employees who may cause, detect or respond to a spill or leak shall be trained in these procedures and have necessary spill response equipment available. If possible, one of these individuals shall be a member of the Pollution Prevention Team.

(c) Contact information for individuals and agencies that shall be notified in the event of a spill shall be included in the SWPPP, and in other locations where it will be readily available.

(v) Routine Facility Inspections. Facility personnel who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at the facility, and who can also evaluate the effectiveness of BMPs shall regularly inspect all areas of the facility where industrial materials or activities are exposed to storm water. These inspections are in addition to, or as part of, the comprehensive site evaluation required

under Part I.E.2.d. At least one member of the Pollution Prevention Team shall participate in the routine facility inspections.

The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit or written approval is received from the Department for less frequent intervals. At least once each calendar year, the routine facility inspection shall be conducted during a period when a storm water discharge is occurring.

Any deficiencies in the implementation of the SWPPP that are found shall be corrected as soon as practicable, but not later than within 30 days of the inspection, unless permission for a later date is granted in writing by the Director. The results of the inspections shall be documented in the SWPPP, along with the date(s) and description(s) of any corrective actions that were taken in response to any deficiencies or opportunities for improvement that were identified.

(v) Employee Training. The permittee shall implement a storm water employee training program for the facility. The SWPPP shall include a schedule for all types of necessary training, and shall document all training sessions and the employees who received the training. Training shall be provided for all employees who work in areas where industrial materials or activities are exposed to storm water, and for employees who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel, etc.). The training shall cover the components and goals of the SWPPP, and include such topics as spill response, good housekeeping, material management practices, BMP operation and maintenance, etc. The SWPPP shall include a summary of any training performed.

(vi) Sediment and Erosion Control. The plan shall identify areas at the facility that, due to topography, land disturbance (e.g., construction, landscaping, site grading), or other factors, have a potential for soil erosion. The permittee shall identify and implement structural, vegetative, and/or stabilization BMPs to prevent or control on-site and off-site erosion and sedimentation. Flow velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel if the flows would otherwise create erosive conditions.

(vii) Management of Runoff. The plan shall describe the storm water runoff management practices (i.e., permanent structural BMPs) for the facility. These types of BMPs are typically used to divert, infiltrate, reuse, or otherwise reduce pollutants in storm water discharges from the site. Structural BMPs may require a separate permit under § 404 of the CWA and the Virginia Water Protection Permit Program Regulation (9VAC25-210) before installation begins.

7. <u>Additional Storm Water Pollution Prevention Plan Requirements</u>

In addition to the requirements found in Part I.E.2.b.1 through Part I.E.2.b.6, the SWPPP shall include the following items:

a. Good housekeeping measures.

1. Delivery vehicles. The plan shall describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee shall consider the following:

a) Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and

b) Develop procedures to deal with leakage/spillage from vehicles or containers.

2. Fuel oil unloading areas. The plan shall describe measures that prevent or minimize contamination of precipitation/surface runoff from fuel oil unloading areas. At a minimum the permittee shall consider using the following measures, or an equivalent:

   a) Use of containment curbs in unloading areas;

   b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

   c) Use of spill and overflow protection (e.g., drip pans, drip diapers, and/or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).

3. Chemical loading/unloading areas. The permittee shall describe and implement measures that prevent or minimize the contamination of precipitation/surface runoff from chemical loading/unloading areas. At a minimum the permittee shall consider using the following measures (or their equivalents):

   a) Use of containment curbs at chemical loading/unloading areas to contain spills;

   b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

   c) Covering chemical loading/unloading areas, and storing chemicals indoors.

4. Miscellaneous loading/unloading areas. The permittee shall describe and implement measures that prevent or minimize the contamination of storm water runoff from loading and unloading areas. The permittee shall consider the following, at a minimum (or their equivalents):

   a) Covering the loading area;

   b) Grading, berming, or curbing around the loading area to divert runon; or

   c) Locating the loading/unloading equipment and vehicles so that leaks are contained in existing containment and flow diversion systems.

5. Liquid storage tanks. The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from aboveground liquid storage tanks. At a minimum the permittee shall consider employing the following measures (or their equivalents):

   a) Use of protective guards around tanks;

   b) Use of containment curbs;

   c) Use of spill and overflow protection; and

   d) Use of dry cleanup methods.

6. Large bulk fuel storage tanks. The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from large bulk fuel storage tanks. At a minimum the permittee shall consider employing containment berms (or its equivalent). The permittee shall also comply with applicable state and federal laws, including Spill Prevention Control and Countermeasures (SPCC).

7. Spill reduction measures. The permittee shall describe and implement measures to reduce the potential for an oil/chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all aboveground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

8. Oil bearing equipment in switchyards. The permittee shall describe and implement measures to prevent or minimize contamination of surface runoff from oil bearing equipment in switchyard areas. The permittee shall consider the use of level grades and gravel surfaces to retard flows and limit the spread of spills, and the collection of storm water runoff in perimeter ditches.
9. Residue hauling vehicles. All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the container body. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds shall be repaired as soon as practicable.
10. Ash loading areas. The permittee shall describe and implement procedures to reduce or control the tracking of ash/residue from ash loading areas where practicable, clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water before departure of each loaded vehicle.
11. Areas adjacent to disposal ponds or landfills. The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee shall develop procedures to:
    a) Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and
    b) Reduce ash residue on exit roads leading into and out of residue handling areas.
12. Landfills, scrapyards, surface impoundments, open dumps, general refuse sites. The plan shall address and include appropriate BMPs for landfills, scrapyards, surface impoundments, open dumps and general refuse sites.
13. Vehicle maintenance activities. For vehicle maintenance activities performed on the plant site, the permittee shall use applicable BMPs.
14. Material storage areas. The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay-down areas). The permittee shall consider the use of the following measures (or their equivalents): flat yard grades; runoff collection in graded swales or ditches; erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins); covering lay-down areas; storing materials indoors; and covering materials temporarily with polyethylene, polyurethane, polypropylene, or hypalon. Storm water runon may be minimized by constructing an enclosure or building a berm around the area.

c. <u>Maintenance</u>

All BMPs identified in the SWPPP shall be maintained in effective operating condition. Storm water BMPs identified in the SWPPP shall be observed during active operation (i.e., during a storm water runoff event) to ensure that they are functioning correctly. Where discharge locations are inaccessible, nearby downstream locations shall be observed. The observations shall be documented in the SWPPP.

The SWPPP shall include a description of procedures and a regular schedule for preventive maintenance of all BMPs, and shall include a description of the back-up practices that are in place should a runoff event occur while a BMP is off-line. The effectiveness of nonstructural BMPs shall also be maintained by appropriate means (e.g., spill response supplies available and personnel trained, etc.).

If site inspections required by Part I.E.2.b.6.b(v) (Routine Facility Inspections) or Part I.E.2.d (Comprehensive Site Compliance Evaluation) identify BMPs that are not operating effectively, repairs or maintenance shall be performed before the next anticipated storm event. If maintenance prior to the next

anticipated storm event is not possible, maintenance shall be scheduled and accomplished as soon as practicable. In the interim, back-up measures shall be employed and documented in the SWPPP until repairs or maintenance is complete.

Documentation shall be kept with the SWPPP of maintenance and repairs of BMPs, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair or replacement, and for repairs, date(s) that the BMP(s) returned to full function, and the justification for any extended maintenance or repair schedules.

d. Comprehensive Site Compliance Evaluation

The permittee shall conduct comprehensive site compliance evaluations at least once a year. The evaluations shall be done by qualified personnel who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at the facility, and who can also evaluate the effectiveness of BMPs. The personnel conducting the evaluations may be either facility employees or outside constituents hired by the facility.

1. Scope of the Compliance Evaluation. Evaluations shall include all areas where industrial materials or activities are exposed to storm water, as identified in Part I.E.2.b.3. The personnel shall evaluate:

   a) Industrial materials, residue or trash that may have or could come into contact with storm water;

   b) Leaks or spills from industrial equipment, drums, barrels, tanks or other containers that have occurred within the past three years;

   c) Off-site tracking of industrial or waste materials or sediment where vehicles enter or exit the site;

   d) Tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas;
   e) Evidence of, or the potential for, pollutants entering the drainage system;

   f) Evidence of pollutants discharging to surface waters at all facility outfalls, and the condition of and around the outfall, including flow dissipation measures to prevent scouring;

   g) Review of training performed, inspections completed, maintenance performed, quarterly visual examinations, and effective operation of BMPs; and

   h) Results of both visual and any analytical monitoring done during the past year shall be taken into consideration during the evaluation.

2. Based on the results of the evaluation, the SWPPP shall be modified as necessary (e.g., show additional controls on the map required by Part I.E.2.b.2.c; revise the description of controls required by Part I.E.2.b.6 to include additional or modified BMPs designed to correct problems identified). Revisions to the SWPPP shall be completed within 30 days following the evaluation, unless permission for a later date is granted in writing by the Director. If existing BMPs need to be modified or if additional BMPs are necessary, implementation shall be completed before the next anticipated storm event, if practicable, but not more than 60 days after completion of the comprehensive site evaluation, unless permission for a later date is granted in writing by the Department;

3. Compliance Evaluation Report. A report shall be written summarizing the scope of the evaluation, name(s) of personnel making the evaluation, the date of the evaluation, and all observations relating to the implementation of the SWPPP, including elements stipulated in Part I.E.2.d.1.a through Part I.E.2.d.1.f above. Observations shall include such things as: the location(s) of discharges of

pollutants from the site; location(s) of previously unidentified sources of pollutants; location(s) of BMPs that need to be maintained or repaired; location(s) of failed BMPs that need replacement; and location(s) where additional BMPs are needed. The report shall identify any incidents of noncompliance that were observed. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the SWPPP and this permit. The report shall be signed in accordance with Part II. K (Signatory Requirements) of this permit and maintained with the SWPPP.

4. Where compliance evaluation schedules overlap with routine inspections required under Part I.E.2.b.6.b(v), the annual compliance evaluation may be used as one of the routine inspections.

e. Signature and Plan Review

1. Signature/Location. The SWPPP shall be signed in accordance with Part II.K (Signatory Requirements) of this permit, dated, and retained on-site at the facility covered by this permit in accordance with Part II.B.2 (Records) of this permit. All other changes to the SWPPP, and other permit compliance documentation, shall be signed and dated by the person preparing the change or documentation.

2. Availability. The permittee shall make the SWPPP, annual site compliance evaluation report, and other information available to the Department upon request.

3. Required Modifications. The Director may notify the permittee at any time that the SWPPP, BMPs, or other components of the facility's storm water program do not meet one or more of the requirements of this permit. The notification shall identify specific provisions of the permit that are not being met, and may include required modifications to the storm water program, additional monitoring requirements, and special reporting requirements. The permittee shall make any required changes to the SWPPP within 60 days of receipt of such notification, unless permission for a later date is granted in writing by the Director, and shall submit a written certification to the Director that the requested changes have been made.

f. Maintaining an Updated SWPPP

1. The permittee shall review and amend the SWPPP as appropriate whenever:

a) There is construction or a change in design, operation, or maintenance at the facility that has a significant effect on the discharge, or the potential for the discharge, of pollutants from the facility;

b) Routine inspections or compliance evaluations determine that there are deficiencies in the BMPs;

c) Inspections by local, state, or federal officials determine that modifications to the SWPPP are necessary;

d) There is a spill, leak or other release at the facility; or

e) There is an unauthorized discharge from the facility.

2. SWPPP modifications shall be made within 30 calendar days after discovery, observation or event requiring a SWPPP modification. Implementation of new or modified BMPs (distinct from regular preventive maintenance of existing BMPs described in Part I.E.2.b.6.b(iii) shall be initiated before the next storm event if possible, but no later than 60 days after discovery, or as otherwise provided or

approved by the Director. The amount of time taken to modify a BMP or implement additional BMPs shall be documented in the SWPPP.

3. If the SWPPP modification is based on a release or unauthorized discharge, include a description and date of the release, the circumstances leading to the release, actions taken in response to the release, and measures to prevent the recurrence of such releases. Unauthorized releases and discharges are subject to the reporting requirements of Part II.G (Reports of Unauthorized Discharges) of this permit.

F. Other Requirements and Special Conditions

1. Operation and Maintenance (O&M) Manual Requirement

The permittee shall maintain a current Operations and Maintenance (O&M) Manual for the facility that is in accordance with Virginia Pollutant Discharge Elimination System Regulations, 9VAC25-31.

The O&M Manual and subsequent revisions shall include the manual effective date and meet Part II.K.2 and Part II.K.4 Signatory Requirements of the permit. Any changes in the practices and procedures followed by the permittee shall be documented in the O&M Manual within 90 days of the effective date of the changes. The permittee shall operate the treatment works in accordance with the O&M Manual and shall make the O&M manual available to Department personnel for review during facility inspections. Within 30 days of a request by DEQ, the current O&M Manual shall be submitted to the DEQ-NRO for review and approval.

The O&M manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

a. Permitted outfall locations and techniques to be employed in the collection, preservation, and analysis of effluent, storm water and sludge samples;
b. Procedures for measuring and recording the duration and volume of industrial wastewater discharged;
c. Discussion of Best Management Practices, if applicable;
d. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants that will prevent these materials from reaching state waters. List type and quantity of wastes, fluids, and pollutants (e.g. chemicals) stored at this facility;
e. A plan for the management and/or disposal of waste solids and residues;
f. List of facility, local and state emergency contacts; and
g. Procedures for reporting and responding to any spills and/or overflows.

2. Notification Levels

The permittee shall notify the Department as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
   (1) One hundred micrograms per liter;
   (2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony;
   (3) Five times the maximum concentration value reported for that pollutant in the permit application; or
   (4) The level established by the Board.
b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant, which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
   (1) Five hundred micrograms per liter;

(2) One milligram per liter for antimony;
(3) Ten times the maximum concentration value reported for that pollutant in the permit application; or
(4) The level established by the Board.

3. Materials Handling/Storage
Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

4. Prohibition of Chemical Additives
The permittee shall notify the Department of Environmental Quality Northern Regional Office, in writing at least thirty (30) days prior to the use of chemical additives in non-contact cooling water. The written notice shall contain the following:

a. The name(s) of the proposed chemical additive(s) to be used and corresponding copies of their Material Safety Data Sheets (MSDS);
b. The proposed schedule of chemical additive use; and
c. A description of any proposed wastewater treatment and/or retention to be provided during the use of the chemical additive(s).

Should the use of chemical additives significantly alter the characteristics of the non-contact cooling water discharge or if the use of chemical additives becomes persistent or continuous, this permit may be modified or alternatively, revoked and reissued to include appropriate limitations and/or conditions.

5. Polychlorinated Biphenyl
There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. Compliance with this requirement will be determined using EPA test method 608 (as referenced in 40 CFR Part 136).

6. Water Quality Criteria Reopener
Should effluent monitoring indicate the need for any water quality-based limitations, this permit may be modified or alternatively revoked and reissued to incorporate appropriate limitations.

7. Water Quality Criteria Monitoring
In addition to the compliance monitoring required in Part I.A.3 of the permit, the permittee shall monitor the effluent at Outfall 004 for the substances noted in Attachment A, “Water Quality Criteria Monitoring” according to the indicated analysis number, quantification level, sample type and frequency. Monitoring shall be initiated after the start of the third year from the permit's effective date. Using Attachment A as the reporting form, the data shall be submitted with the next application for reissuance, which is due at least 180 days prior to the expiration date of this permit. Monitoring and analysis shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved methods. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. The DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

8. 126 Priority Pollutants

In addition to the compliance monitoring required in Part I.A.9 and Part I.A.10 of the permit, the permittee shall monitor the effluent at Outfall 201 and Outfall 202 for the substances listed in Appendix A to 40 CFR Part 423. Any and all 126 priority pollutants listed in Appendix A to 40 CFR Part 423, contained in the chemicals added for cooling tower maintenance, shall be non-detectable in the blowdown discharge water. In accordance with Part I.A.9 and Part I.A.10 of the permit, sampling for these pollutants (except total chromium and total zinc) shall be conducted once per year when there is a discharge.

This monitoring requirement may be waived if the permittee submits engineering calculations which demonstrate that the regulated pollutants are not detectable in the final discharge by the analytical methods in 40 CFR Part 136.

The permittee shall notify the DEQ-Northern Regional Office of any process change in the cooling tower, which may affect the quality of the associated discharge water.

9. Instream Monitoring

Monitoring of the thermal mixing zone shall take place twice per year. Statistical analysis of the positions of the thermal plume during extreme summer and winter simulations indicates that ninety-nine (99) percent of the time the plume would remain within about 657 and 507 acres, respectively, in Quantico Creek and a part of the Potomac River.

The monitoring results shall be presented as a temperature plot with 3-degree Celcius isotherms and shall be taken as near to full plant operating conditions as reasonably possible. The permittee shall comply with the State Water Quality Criteria outside of the approved mixing zone. Monitoring and reporting shall be conducted in accordance with the following schedule:

Permit Year	Monitoring Period	Report Submission Dates
First	July 2013	October 31, 2013
Second	February 2014	May 31, 2014
Second	July 2014	October 31, 2014
Third	February 2015	May 31, 2015
Third	July 2015	October 31, 2015
Fourth	February 2016	May 31, 2016
Fourth	July 2016	October 31, 2016
Fifth	February 2017	May 31, 2017
Fifth	July 2017	October 31, 2017

10. Debris Collection

Wastes such as solids, sludges, or other pollutants removed from or resulting from treatment or control of wastewaters, or facility operations, including all debris collected on the intake trash racks, shall be disposed of in a manner to prevent any of the removed substances, or runoff from such substances, from entering waters of the State.

11. Solids in Ash Pond D

a. Ash Pond D may be used as a repository for dredge spoil material and residuals removed from facilities, areas, and systems related to operation and maintenance of Possum Point Power Station. These materials and residuals include:

1) Solids from VPDES treatment ponds and storm water management facilities;
2) Solids from old/closed VPDES treatment ponds (Ash Ponds A, B and C);
3) Solids from station floor drains, lift stations, and sumps;

4) Water treatment plant filter cake and cooling tower basin sludge;
5) Soil and fines from station beautification and land restoration projects, including the coal pile area, deicing grit, abrasives, and inert cleanup debris such as surplus soil, rock, and gravel; and
6) Sand/silt/sediment in the Potomac River and Quantico Creek within and adjacent to cooling water intake structures, outfall structures, oil barge berths, shoreline revetments, boat ramp, transportation structures, and navigation-related channels and structures.

b. Ash Pond D may be used as a repository for dredge spoil material that is not related to operations at Possum Point Power Station provided the material originated from the Potomac River or Quantico Creek or public bodies of water in the Quantico Creek watershed meeting the definition of state waters in Virginia. The following guideline shall be followed:

1) Dominion shall provide written notice to the Department of Environmental Quality-Northern Regional Office (DEQ-NRO) at least 30 days prior to the placement of any dredge spoil material in Ash Pond D. This notice shall include as a minimum the following information:
   a) Sampling tests and laboratory results (See 11.c. below);
   b) Copies of all permits or regulatory authorizations required for the project;
   c) Project schedule dates;
   d) Method of placement;
   e) Original location of material;
   f) Type and volume of material; and
   g) Name, address, and telephone number of dredging contractor (for placement of dredge spoil material) or station contact (for placement of station residuals).

2) Specific approval by the DEQ-NRO is not required for a placement project but the DEQ-NRO shall have the right to request additional information or halt any noticed activity. If the placement project is not halted by the DEQ-NRO within 30 days of receipt of the above notice, the project is deemed authorized.

c. Sampling Requirements

1) A “sample” is defined as a Core Dredge sample, which will be a composite of dredge material from the river, stream or lake bottom to the depth of the intended dredge.
2) Number of Samples taken
   a) >300,000 Cubic Yards of Material
      For every 100,000 cubic yards of material a representative sample shall be collected. These samples shall best represent the materials being placed in Ash Pond D from the dredge area.
   b) <300,000 Cubic Yards, but >50,000 Cubic Yards of Material
      There shall be three representative samples of dredge area. These samples shall best represent the materials being placed in Ash Pond D from the dredge area.
   c) <50,000 Cubic Yards, but >1,000 Cubic Yards of Material
      There shall be two representative samples of dredge area. These samples shall best represent the materials being placed in Ash Pond D from the dredge area.
   d) <1,000 Cubic Yards of Material
      No sampling requirement shall apply to projects involving the placement of material less than 1,000 cubic yards with approval from Dominion (Virginia Power).

3) All parameters limited in Attachment B shall be sampled. The permittee shall use Attachment B as a reporting form which will be submitted to DEQ-NRO at least 30 days prior to placement in Ash Pond D. If the measured constituents in the sample exceed any respective threshold levels listed in Attachment B, the material shall not be placed in Ash Pond D.

4) Materials and residuals related to routine station operations and dredge materials identified in Part I.F.11.a and Part I.F.11.b shall be tested prior to initial placement under this protocol and if station processes have not materially changed, further testing is not required.

5) The above sampling requirements for any placement activity may be waived in the event of declared public emergency conditions or by consent of the DEQ-NRO.

6) The placement of any material in Ash Pond D shall not be incompatible with the Ash Pond D liner system or cause a violation of the VPDES permit requirements applicable to Outfall 005 at Ash Pond E.

7) Dominion shall retain records relating to the placement event for a minimum of three years and comply with the requirements of Part II.B.2 of the subject permit.

8) Dredging shall be performed in accordance with all Federal and Virginia laws and regulations.

12. 316(b) Special Condition
The facility includes a cooling water intake structure governed by §316(b) of the Clean Water Act which requires that the location, design, construction and capacity of the cooling water intake structures reflect the "best technology available (BTA) for minimizing adverse environmental impact". The Possum Point – December, 1976 environmental report on impingement and entrainment studies conducted at the facility indicated minimal or no adverse environmental impact. This permit may be reopened to address compliance with Clean Water Act §316(b) through requirements including but not limited to those specified in EPA regulations in 40 CFR Part 125 Subpart J when finalized.

13. Re-Evaluation of Stratum B
Within 180 days of the permit reissuance (April 3, 2013), the permittee shall submit to the DEQ- Northern Regional Office for review and approval, a work plan to evaluate Stratum B monitoring network and propose any necessary changes for characterization of Stratum B water quality. Any well modifications, replacements or abandonments proposed in the approved plan must be completed within 180 days of the plan approval.

14. PCB Monitoring
The permittee shall monitor the effluent at Outfall 005 for Polychlorinated Biphenyls (PCBs). The permittee shall conduct the sampling and analysis in accordance with the requirements specified below. At a minimum:

a. Monitoring and analysis shall be conducted in accordance with the most current version of EPA Method 1668 or other equivalent methods capable of providing low-detection level, congener specific results. Any equivalent method shall be submitted to DEQ-NRO for review and approval prior to sampling and analysis. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. The sampling protocol shall be submitted to DEQ-NRO for review and approval prior to the first sample collection.

b. The permittee shall collect two (2) samples within the first three (3) years after the permit reissuance date of April 3, 2013.

c. Each effluent sample shall consist of a minimum 2 liter volume. The sample type, either a grab or automated composite, shall be at the discretion of the permittee.

d. The data shall be submitted to DEQ-NRO by the 10th day of the month following receipt of the results. The permittee shall submit the results electronically. The submittal shall include the

unadjusted and appropriately qualified individual PCB congener analytical results. Additionally, laboratory and field QA/QC documentation and results shall be reported. Total PCBs are to be computed as the summation of the reported, quantified congeners.

15. Total Maximum Daily Load (TMDL) Reopener
This permit shall be modified or alternatively revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

16. Ash Pond Dewatering

The permittee shall notify the DEQ - Northern Regional Office at least 72 hours prior to the planned commencement of the discharge to draw down the water elevation in Ash Pond D in preparation of pond closure. A second notification to the DEQ - Northern Regional Office shall be provided within 24 hours of initiating the discharge to draw down the water elevation in Ash Pond D.

17. Ash Pond Closure Stormwater Management.
Best management practices (BMPs), structural and/or non-structural, shall be utilized by the permittee to minimize the impact of ash pond closure activities on stormwater quality. Ash pond closure activities may include, but are not limited to, the process of ash movement for off-site disposal, ash loading and unloading areas, any area(s) associated with the storage of ash prior to transport off-site, and vehicle tracking associated with the movement of ash.

The facility's Stormwater Pollution Prevention Plan (SWPPP) shall include a description of the BMPs being implemented and a regular schedule for preventive maintenance of all BMPs where appropriate. All structural BMPs identified in the SWPPP shall be maintained in effective operating condition and shall be inspected for structural integrity and operational efficiency once per week during ash pond closure activities. Results of the weekly inspections and actions needed and performed in response to the weekly inspections shall be documented per the SWPPP.

18. Ash Handling Area Outfall Inspections.
Inspections of Outfall 010 and Stormwater Outfall S108, and Stormwater Outfall S107 in accordance with Part I.A.15, shall be conducted at a frequency of once every five business days and no later than forty-eight (48) hours following a measurable storm event. Corrective actions identified as a result of these inspections shall be implemented as soon as possible, but no later than seven (7) days after discovery. Results of these inspections and actions needed and performed in response to these inspections shall be documented per the SWPPP. Ash handling area outfall inspections shall be conducted as noted above until such time as the ash pond closure project is completed.

19. Weir Structure Discharge Prohibition.
Discharge from the weir structure associated with the Ash Pond A, B, and C complex is not authorized by this permit.

20. Limitation Exceedance for Internal Outfall 503 and Outfall 005.
The permittee shall immediately cease the discharge upon becoming aware of an exceedance of an established effluent limit and/or WET limit at Internal Outfall 503 or Outfall 005 (Interim Configuration Discharge from Holding Basin). The permittee shall promptly notify DEQ, in no case later than 24 hours, after discovery of the exceedance. Should an exceedance occur, the permittee shall initiate a review of the treatment operations and data to identify the cause(s) of the exceedance and initiate appropriate corrective action(s). Resumption of the discharge(s) shall not occur until such time as an evaluation report is provided to DEQ and written authorization to resume the discharge is granted.

21. Drawdown Rate Requirement.
The drawdown rate of any pond or basin shall not exceed 6 inches/day to maintain the integrity of the dams, unless approved in writing by the Department of Conservation and Recreation Dam Safety Program.

22. Conceptual Engineering Report (CER) Requirement (Internal Outfall 503).
Prior to constructing any wastewater treatment works, the permittee shall submit a final CER to the DEQ - Northern Regional Office. DEQ approval shall be secured prior to constructing any wastewater treatment works. The permittee shall construct the wastewater treatment works in accordance with the approved CER. No later than 14 days following completion of construction of any project for which a CER has been approved, written notification shall be submitted to the DEQ - Northern Regional Office certifying that, based on an inspection of the project, construction was completed in accordance with the approved CER. The written notification shall be certified by a professional engineer licensed in the Commonwealth of Virginia or signed in accordance with Part II.K of this permit. The installed wastewater treatment works shall be operated to achieve design treatment and effluent concentrations. Approval by DEQ does not relieve the owner of the responsibility for the correction of design and/or operational deficiencies. Noncompliance with the CER shall be deemed a violation of this permit.

23. Outfall 010 Groundwater (Toe Drain) Removal and Re-designation to S107.
Upon successful demonstration to and written approval from DEQ confirming that all groundwater contributions to the Outfall 010 discharge have been removed, the requirements of Part I.A.15 of this permit shall become effective and supersede the requirements of Part 1.A.8. The groundwater contributions include both the infiltration through the earthen berm as well as groundwater diverted around the impoundment. Should the permittee separate and remove all groundwater contributions to the discharge, then the discharge would be comprised of only industrially influenced stormwater. Stormwater-only discharges from this outfall would be designated as Outfall S107 and governed by the requirements of Part 1.A.15, Part I.E and Part I.F18. Should the permittee pursue separation of the groundwater contributions to the discharge, a demonstration plan shall be submitted to DEQ for review and approval. This demonstration plan shall consider, at a minimum: observations of the outfall during dry-weather with variable antecedent precipitation conditions to confirm no discharge; seasonal wet-weather conditions to include potential inflow and infiltration contributions; other information as appropriate, such as design schematics, to support a conclusion that groundwater contributions have been removed from the discharge.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.
4. Samples taken as required by this permit shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records

1. Records of monitoring information shall include:
   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) and time(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Department of Environmental Quality - Northern Regional Office (DEQ-NRO)
   13901 Crown Court
   Woodbridge, VA 22193

   Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

2. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using

procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

3. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from this discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II.F.; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II.F., shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:
   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I. if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II, I.1.or I.2., in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II, G., H. and I. may be made to the Department's Northern Regional Office at (703) 583-3800 (voice) or (703) 583-3821 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

      1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
      2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. All permit applications shall be signed as follows:

   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
      1) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or

      2) The manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

   b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

   c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes:

      1) The chief executive officer of the agency, or
      2) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part II.K.1.;

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

   c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II.K.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2. shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II, K.1. or K.2. shall make the following certification:

   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U.), and "upset" (Part II.V.) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II, U.2. and U.3.

2. Notice
   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.

3. Prohibition of bypass.
   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
      1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
      3) The permittee submitted notices as required under Part II.U.2.

   b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2. are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   a. An upset occurred and that the permittee can identify the cause(s) of the upset;
   b. The permitted facility was at the time being properly operated;
   c. The permittee submitted notice of the upset as required in Part II.I.; and
   d. The permittee complied with any remedial measures required under Part II.S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. **Inspection and Entry**

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of Permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2., a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II.Y.1., this permit may be automatically transferred to a new permittee if:
   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

VA0002071 ATTACHMENT A – Outfall 004
DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY CRITERIA MONITORING

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
METALS						
7440-36-0	Antimony, dissolved	(3)	1300		G or C	1/5YR
7440-38-2	Arsenic, dissolved	(3)	180		G or C	1/5YR
7440-43-9	Cadmium, dissolved	(3)	0.76		G or C	1/5YR
16065-83-1	Chromium III, dissolved [8]	(3)	49		G or C	1/5YR
18540-29-9	Chromium VI, dissolved [8]	(3)	13		G or C	1/5YR
7440-50-8	Copper, dissolved	(3)	5.4		G or C	1/5YR
7439-92-1	Lead, dissolved	(3)	6.4		G or C	1/5YR
7439-97-6	Mercury, dissolved	(3)	0.92		G or C	1/5YR
7782-49-2	Selenium, dissolved	(3)	6.0		G or C	1/5YR
7440-22-4	Silver, dissolved	(3)	0.78		G or C	1/5YR
7440-28-0	Thallium, dissolved	(4)	(5)		G or C	1/5YR
7440-66-6	Zinc, dissolved	(3)	50		G or C	1/5YR
PESTICIDES/PCB'S						
309-00-2	Aldrin	608	0.05		G or C	1/5YR
57-74-9	Chlordane	608	0.2		G or C	1/5YR
2921-88-2	Chlorpyrifos (synonym = Dursban)	(4)	(5)		G or C	1/5YR
72-54-8	DDD	608	0.1		G or C	1/5YR
72-55-9	DDE	608	0.1		G or C	1/5YR
50-29-3	DDT	608	0.1		G or C	1/5YR
8065-48-3	Demeton	(4)	(5)		G or C	1/5YR
333-41-5	Diazinon	(4)	(5)		G or C	1/5YR
60-57-1	Dieldrin	608	0.1		G or C	1/5YR
959-98-8	Alpha-Endosulfan	608	0.1		G or C	1/5YR
33213-65-9	Beta-Endosulfan	608	0.1		G or C	1/5YR
1031-07-8	Endosulfan Sulfate	608	0.1		G or C	1/5YR

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
72-20-8	Endrin	608	0.1		G or C	1/5YR
7421-93-4	Endrin Aldehyde	(4)	(5)		G or C	1/5YR
86-50-0	Guthion	(4)	(5)		G or C	1/5YR
76-44-8	Heptachlor	608	0.05		G or C	1/5YR
1024-57-3	Heptachlor Epoxide	(4)	(5)		G or C	1/5YR
319-84-6	Hexachlorocyclohexane Alpha-BHC	608	(5)		G or C	1/5YR
319-85-7	Hexachlorocyclohexane Beta-BHC	608	(5)		G or C	1/5YR
58-89-9	Hexachlorocyclohexane Gamma-BHC or Lindane	608	(5)		G or C	1/5YR
143-50-0	Kepone	(9)	(5)		G or C	1/5YR
121-75-5	Malathion	(4)	(5)		G or C	1/5YR
72-43-5	Methoxychlor	(4)	(5)		G or C	1/5YR
2385-85-5	Mirex	(4)	(5)		G or C	1/5YR
56-38-2	Parathion	(4)	(5)		G or C	1/5YR
11096-82-5	PCB 1260	608	1.0		G or C	1/5YR
11097-69-1	PCB 1254	608	1.0		G or C	1/5YR
12672-29-6	PCB 1248	608	1.0		G or C	1/5YR
53469-21-9	PCB 1242	608	1.0		G or C	1/5YR
11141-16-5	PCB 1232	608	1.0		G or C	1/5YR
11104-28-2	PCB 1221	608	1.0		G or C	1/5YR
12674-11-2	PCB 1016	608	1.0		G or C	1/5YR
1336-36-3	PCB Total	608	7.0		G or C	1/5YR
8001-35-2	Toxaphene	608	5.0		G or C	1/5YR
BASE NEUTRAL EXTRACTABLES						
83-32-9	Acenaphthene	625	10.0		G or C	1/5YR
120-12-7	Anthracene	625	10.0		G or C	1/5YR
92-87-5	Benzidine	(4)	(5)		G or C	1/5YR
56-55-3	Benzo (a) anthracene	625	10.0		G or C	1/5YR
205-99-2	Benzo (b) fluoranthene	625	10.0		G or C	1/5YR
207-08-9	Benzo (k) fluoranthene	625	10.0		G or C	1/5YR

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
50-32-8	Benzo (a) pyrene	625	10.0		G or C	1/5YR
111-44-4	Bis 2-Chloroethyl Ether	(4)	(5)		G or C	1/5YR
108-60-1	Bis 2-Chloroisopropyl Ether	(4)	(5)		G or C	1/5YR
117-81-7	Bis-2-ethylhexyl phthalate	625	10.0		G or C	1/5YR
85-68-7	Butyl benzyl phthalate	625	10.0		G or C	1/5YR
91-58-7	2-Chloronaphthalene	(4)	(5)		G or C	1/5YR
218-01-9	Chrysene	625	10.0		G or C	1/5YR
53-70-3	Dibenz(a,h)anthracene	625	20.0		G or C	1/5YR
84-74-2	Dibutyl phthalate (synonym = Di-n-Butyl Phthalate)	625	10.0		G or C	1/5YR
95-50-1	1,2-Dichlorobenzene	624	10.0		G or C	1/5YR
541-73-1	1,3-Dichlorobenzene	624	10.0		G or C	1/5YR
106-46-7	1,4-Dichlorobenzene	624	10.0		G or C	1/5YR
91-94-1	3,3-Dichlorobenzidine	(4)	(5)		G or C	1/5YR
84-66-2	Diethyl phthalate	625	10.0		G or C	1/5YR
131-11-3	Dimethyl phthalate	(4)	(5)		G or C	1/5YR
121-14-2	2,4-Dinitrotoluene	625	10.0		G or C	1/5YR
122-66-7	1,2-Diphenylhydrazine	(4)	(5)		G or C	1/5YR
206-44-0	Fluoranthene	625	10.0		G or C	1/5YR
86-73-7	Fluorene	625	10.0		G or C	1/5YR
118-74-1	Hexachlorobenzene	(4)	(5)		G or C	1/5YR
87-68-3	Hexachlorobutadiene	(4)	(5)		G or C	1/5YR
77-47-4	Hexachlorocyclopentadiene	(4)	(5)		G or C	1/5YR
67-72-1	Hexachloroethane	(4)	(5)		G or C	1/5YR
193-39-5	Indeno(1,2,3-cd)pyrene	625	20.0		G or C	1/5YR
78-59-1	Isophorone	625	10.0		G or C	1/5YR
98-95-3	Nitrobenzene	625	10.0		G or C	1/5YR
62-75-9	N-Nitrosodimethylamine	(4)	(5)		G or C	1/5YR
621-64-7	N-Nitrosodi-n-propylamine	(4)	(5)		G or C	1/5YR
86-30-6	N-Nitrosodiphenylamine	(4)	(5)		G or C	1/5YR
129-00-0	Pyrene	625	10.0		G or C	1/5YR

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
120-82-1	1,2,4-Trichlorobenzene	625	10.0		G or C	1/5YR
VOLATILES						
107-02-8	Acrolein	(4)	(5)		G	1/5YR
107-13-1	Acrylonitrile	(4)	(5)		G	1/5YR
71-43-2	Benzene	624	10.0		G	1/5YR
75-25-2	Bromoform	624	10.0		G	1/5YR
56-23-5	Carbon Tetrachloride	624	10.0		G	1/5YR
108-90-7	Chlorobenzene (synonym = monochlorobenzene)	624	50.0		G	1/5YR
124-48-1	Chlorodibromomethane	624	10.0		G	1/5YR
67-66-3	Chloroform	624	10.0		G	1/5YR
75-09-2	Dichloromethane (synonym = methylene chloride)	624	20.0		G	1/5YR
75-27-4	Dichlorobromomethane	624	10.0		G	1/5YR
107-06-2	1,2-Dichloroethane	624	10.0		G	1/5YR
75-35-4	1,1-Dichloroethylene	624	10.0		G	1/5YR
156-60-5	1,2-trans-dichloroethylene	(4)	(5)		G	1/5YR
78-87-5	1,2-Dichloropropane	(4)	(5)		G	1/5YR
542-75-6	1,3-Dichloropropene	(4)	(5)		G	1/5YR
100-41-4	Ethylbenzene	624	10.0		G	1/5YR
74-83-9	Methyl Bromide	(4)	(5)		G	1/5YR
79-34-5	1,1,2,2-Tetrachloroethane	(4)	(5)		G	1/5YR
127-18-4	Tetrachloroethylene	624	10.0		G	1/5YR
10-88-3	Toluene	624	10.0		G	1/5YR
79-00-5	1,1,2-Trichloroethane	(4)	(5)		G	1/5YR
79-01-6	Trichloroethylene	624	10.0		G	1/5YR
75-01-4	Vinyl Chloride	624	10.0		G	1/5YR
ACID EXTRACTABLES [6]						
95-57-8	2-Chlorophenol	625	10.0		G or C	1/5YR
120-83-2	2,4 Dichlorophenol	625	10.0		G or C	1/5YR
105-67-9	2,4 Dimethylphenol	625	10.0		G or C	1/5YR

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
51-28-5	2,4-Dinitrophenol	(4)	(5)		G or C	1/5YR
534-52-1	2-Methyl-4,6-Dinitrophenol	(4)	(5)		G or C	1/5YR
25154-52-3	Nonylphenol	(4)	(5)		G or C	1/5YR
87-86-5	Pentachlorophenol	625	50.0		G or C	1/5YR
108-95-2	Phenol	625	10.0		G or C	1/5YR
88-06-2	2,4,6-Trichlorophenol	625	10.0		G or C	1/5YR
MISCELLANEOUS						
16887-00-6	Chlorides	(4)	(5)		G	1/5YR
57-12-5	Cyanide, Free	(4)	10.0		G	1/5YR
7783-06-4	Hydrogen Sulfide	(4)	(5)		G or C	1/5YR
471-34-1	Hardness (mg/L as $CaCO_3$)	(4)	(5)		G or C	1/5YR

_____

Name of Principal Executive Officer or Authorized Agent/Title

_____

Signature of Principal Officer or Authorized Agent/Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

FOOTNOTES:

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

The quantification levels indicated for the metals are actually Specific Target Values developed for this permit. The Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The Specific Target Values are subject to change based on additional information such as hardness data, receiving stream flow, and design flows. Any QL that is less than the Specific Target Value may be used.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained.

(2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

C = Composite = A 24-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period.

(3) A specific analytical method is not specified; however a target value for each metal has been established. An appropriate method to meet the target value shall be selected from the following list of EPA methods (or any approved method presented in 40 CFR Part 136). If the test result is less than the method QL, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

Metal	**Analytical Method**
Antimony	1638; 1639
Arsenic	1632; 206.5
Chromium[8]	1639
Cadmium	1637; 1638; 1639; 1640
Chromium VI	1639; 218.6 Rev 3.3
Copper	1638; 1640
Lead	1637; 1638; 1640
Mercury	1631; 245.7 Rev 2.0
Nickel	1638; 1639; 1640
Selenium	1638; 1639
Silver	1638
Zinc	1638; 1639

(4) Any approved method presented in 40 CFR Part 136.

(5) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

(6) Testing for phenols requires continuous extraction.

(7) Analytical Methods: NBSR 85-3295 or DEQ's approved analysis for Tributyltin may also be used [See A Manual for the Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science, dated November 1996].

(8) Both Chromium III and Chromium VI may be measured by the total chromium analysis. If the result of the total chromium analysis is less than or equal to the lesser of the Chromium III or Chromium VI method QL, the results for both Chromium III and Chromium VI can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].

(9) The lab may use SW846 Method 8270D provided the lab has an Initial Demonstration of Capability, has passed a PT for Kepone, and meets the acceptance criteria for Kepone as given in Method 8270D

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring

FACILITY NAME: Dominion – Possum Point Power Station VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/l)	Reporting Results [1] (mg/l)	Sample Type[2]	Threshold Levels (mg/l)
Toxicity Characteristic Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311			G	5.0
151	7440-39-3	Barium	1311			G	100.0
216	71-43-2	Benzene	1311			G	3.0
096	7440-43-9	Cadmium	1311			G	1.0
236	56-23-5	Carbon Tetrachloride	1311			G	0.5
333	57-74-9	Chlordane	1311			G	0.03
280	108-90-7	Chlorobenzene	1311			G	100.0
223	67-66-3	Chloroform	1311			G	6.0
016	7440-47-3	Chromium	1311			G	5.0
510	95-48-7	o-Cresol *	1311			G	200.0
509	108-39-4	m-Cresol *	1311			G	200.0
511	106-44-5	p-Cresol *	1311			G	200.0
512		Cresols, Total	1311			G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311			G	7.5
260	107-06-2	1,2-Dichloroethane	1311			G	0.5
258	75-35-4	1,1-Dichloroethylene	1311			G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311			G	0.13
339	72-20-8	Endrin	1311			G	0.02
341	76-44-8	Heptachlor	1311			G	0.008
289	118-74-1	Hexachlorobenzene	1311			G	0.13
290	87-68-3	Hexachlorobutadiene	1311			G	0.5
291	67-72-1	Hexachloroethane	1311			G	5.0
034	7439-92-1	Lead	1311			G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311			G	0.4
042	7439-97-6	Mercury	1311			G	0.2
344	72-43-5	Methoxychlor	1311			G	10.0
	78-93-3	Methyl Ethyl Ketone	1311			G	200.0
294	98-95-3	Nitrobenzene	1311			G	2.0
210	87-86-5	Pentachlorophenol	1311			G	100.0
	110-86-1	Pyridine	1311			G	5.0
152	7782-49-2	Selenium	1311			G	1.0
037	7440-22-4	Silver	1311			G	5.0
220	127-18-4	Tetrachloroethylene	1311			G	0.7
349	8001-35-2	Toxaphene	1311			G	0.5
602	79-01-6	Trichloroethylene	1311			G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311			G	400
602	88-06-2	2,4,6-Trichlorophenol	1311			G	2.0
173	75-01-4	Vinyl Chloride	1311			G	0.2

* If o-, m- and p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 2 of 4

FACILITY NAME: Dominion – Possum Point Power Station VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/kg)	Reporting Results[1] (mg/kg)	Sample Type[2]
Metals (Part B.1.)						
178	7429-90-5	Antimony	(3)	(4)		G
457		Arsenic III	(3)	(4)		G
441	16055-83-1	Chromium III	(3)	(4)		G
231	18540-29-9	Chromium VI	(3)	(4)		G
442	744-50-8	Copper	(3)	(4)		G
445	7440-02-0	Nickel	(3)	(4)		G
	7440-28-0	Thallium	(3)	(4)		G
448	7440-66-6	Zinc	(3)	(4)		G
Pesticides/PCB'S (Part B.2.)						
332	309-00-2	Aldrin	(3)	(4)		G
334		Chlorpyrifos Dursban	(3)	(4)		G
--	72-54-8	DDD	(3)	(4)		G
--	72-55-9	DDE	(3)	(4)		G
335	50-29-3	DDT	(3)	(4)		G
336	8065-48-3	Demeton	(3)	(4)		G
337	60-57-1	Dieldrin	(3)	(4)		G
746	959-98-8	Alpha-Endosulfan	(3)	(4)		G
640	33213-65-9	Alpha-Endosulfan	(3)	(4)		G
617	1031-07-8	Endosulfan Sulfate	(3)	(4)		G
--	7421-93-4	Endrin Aldehyde	(3)	(4)		G
340	86-50-0	Guthion	(3)	(4)		G
--	1024-57-3	Heptachlor Epoxide	(3)	(4)		G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	(3)	(4)		G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	(3)	(4)		G
--	143-50-0	Kepone	(3)	(4)		G
343	121-75-5	Malathion	(3)	(4)		G
345	2385-85-5	Mirex	(3)	(4)		G
346	56-38-2	Parathion	(3)	(4)		G
--	1336-36-3	Total PCB	(3)	(4)		G
641	53469-21-9	PCB-1242	(3)	(4)		G
642	11097-69-1	PCB-1254	(3)	(4)		G
643	11104-28-2	PCB-1221	(3)	(4)		G
644	11141-16-5	PCB-1232	(3)	(4)		G
645	12672-29-6	PCB-1248	(3)	(4)		G
618	11096-82-5	PCB-1260	(3)	(4)		G
646	12674-11-2	PCB-1016	(3)	(4)		G
Base Neutral Extractable (Part B.3.)						
273	208-96-8	Acenaphthene	(3)	(4)		G
275	120-12-7	Anthracene	(3)	(4)		G
--	92-87-5	Benzidine	(3)	(4)		G
276	56-55-3	Benzo(a) anthracene	(3)	(4)		G

FACILITY NAME: Dominion – Possum Point Power Station VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/kg)	Reporting Results[1] (mg/kg)	Sample Type[2]
648	50-32-8	Benzo(b) fluoranthene (3,4-Bensofluoranthene)	(3)	(4)		G
278	207-08-9	Benzo(k) fluoranthene	(3)	(4)		G
277	50-32-8	Benzo(a)pyrene	(3)	(4)		G
--	111-44-4	Bis 2-Chloroethyl Ether	(3)	(4)		G
279	102-60-1	Bis 2-Chloroiso-Propyl Ether	(3)	(4)		G
486	85-68-7	Butyl benzyl phthalate	(3)	(4)		G
--	91-58-7	2-Chloronaphthalene	(3)	(4)		G
282	218-01-9	Chrysene	(3)	(4)		G
654	53-70-3	Dibenz(a,h) anthracene	(3)	(4)		G
206	84-74-2	Dibutyl phthalate	(3)	(4)		G
259	95-50-1	1,2-Dichlorobenzene	(3)	(4)		G
264	541-73-1	1,3-Dichlorobenzene	(3)	(4)		G
527	91-94-1	3,3-Dichlorobenzidine	(3)	(4)		G
285	84-66-2	Diethyl phthalate	(3)	(4)		G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethylhexyl) Phthalate)	(3)	(4)		G
286	131-11-3	Dimethyl Phthalate	(3)	(4)		G
535	122-66-7	1,2-Dihenylhydrazine	(3)	(4)		G
287	206-44-0	Fluoranthene	(3)	(4)		G
288	86-73-7	Fluorene	(3)	(4)		G
538	77-47-4	Hexachlorocyclopentadiene	(3)	(4)		G
651	193-39-5	Indeno(1,2,3-cd) pyrene	(3)	(4)		G
650	78-59-1	Isophorone	(3)	(4)		G
293	91-20-3	Naphthalene	(3)	(4)		G
573	62-75-9	N-Nitrosodimethylamine	(3)	(4)		G
574	86-30-6	N-Nitrosodiphenylamine	(3)	(4)		G
575	621-64-7	N-Nitrosodi-n-proplyamine	(3)	(4)		G
296	129-00-0	Pyrene	(3)	(4)		G
263	129-82-1	1,2,4 Trichlorobenzene	(3)	(4)		G
Volatiles (Part B.4.)						
171	107-02-8	Acrolein	(3)	(4)		G
204	107-13-1	Acrylonitrile (Vinyl cyanide)	(3)	(4)		G
484	75-25-2	Bromoform	(3)	(4)		G
652	124-48-1	Chlorodibromomethane	(3)	(4)		G
649	75-09-2	Dichloromethane (Methylene chloride)	(3)	(4)		G
244	75-27-4	Dichlorobromomethane	(3)	(4)		G
262	156-60-5	Trans 1,2-Dichloroethylene	(3)	(4)		G
261	78-87-5	1,2-Dichloropropane	(3)	(4)		G
265	542-75-6	1,3-Dichloropropene (1,3-Dichlorpropylene)	(3)	(4)		G
172	100-41-4	Ethylbenzene	(3)	(4)		G
--	74-83-9	Methyl Bromide	(3)	(4)		G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	(3)	(4)		G
596	79-34-5	1,1,2,2-Tetrachloroethane	(3)	(4)		G

DEPARTMENT OF ENVIRONMENTAL QUALITY

Dredge Spoils Monitoring

FACILITY NAME: Dominion – Possum Point Power Station VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/kg)	Reporting Results[1] (mg/kg)	Sample Type[2]
222	108-88-3	Toluene	[3]	[4]		G
373	79-00-5	1,1,2-Trichloroethane	[3]	[4]		G
155	79-01-6	Trichloroethylene	[3]	[4]		G
Acids Extratables (Part B.5.)						
267	95-57-8	2-Chlorophenol	[3]	[4]		G
268	120-83-2	2,4 Dichlorophenol	[3]	[4]		G
269	105-67-9	2,4 Dimethylphenol	[3]	[4]		G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	[3]	[4]		G
270	51-28-5	2,4-Dinitrophenol	[3]	[4]		G
175	108-95-2	Phenol	[3]	[4]		G
Miscellaneous (Part B.6.)						
018		Cyanide, Total	[3]	[4]		G
350		Tributyltin	[3]	[4]		G
257		TPH (Total Petroleum Hydrocarbons)	[3]	[4]		G

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.
Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilograms (mg/kg) unless otherwise specified.
Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<[QL]" on the Attachment B form, where the actual test method QL shall be substituted for "[QL]".

(2) Sample Type:
G = Grab - An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported.

(3) Any approved method presented in 40 CFR Part 136.

(4) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN REGIONAL OFFICE
13901 Crown Court, Woodbridge, Virginia 22193
(703) 583-3800 Fax (703) 583-3801
www.deq.virginia.gov

Preston Bryant
Secretary of Natural Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director

October 25, 2007

Robert Williams
Dominion Virginia Power
5000 Dominion Blvd
Glen Allen, VA 23060

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re: Reissuance of VPDES Permit No. VA0002071
Dominion – Possum Point Power Station, Prince William County

Dear Mr. Williams:

The Department of Environmental Quality (DEQ) has approved the enclosed effluent limitations and monitoring requirements for the above-referenced permit. A copy of your Permit and the Discharge Monitoring Report (DMRs) forms are included in this package. Please make additional copies of the DMRs for future use. The first DMR for the month of November is due by December 10, 2007. Please send DMRs to:

Virginia Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193-1453

Please reference the effluent limits in your permit and report monitoring results on the DMRs to the same number of significant digits as are included in the permit limits for the parameter.

Note that DEQ has launched an e-DMR program that allows you to submit the effluent data electronically. If you are interested in participating in this program, please visit the following website for details: http://www.deq.virginia.gov/water/edmrfaq.html.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first)within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternately, any owner under §§ 62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in §1.23(b) of the Board's Procedural Rule No. 1. In case involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

If you have questions about the permit, please contact Susan D. Mackert at (703)583-3853, or by E-mail at sdmackert@deq.virginia.gov.

Sincerely,

Thomas A. Faha
Regional Director

Enc.: Permit No. VA0002071

cc: DEQ-Water, OWPP
EPA-Region III, 3WP12
Department of Health, Culpeper
Water Compliance, NVRO
Water Resources Development, NVRO

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

VA0002071	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********		0	1/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU	0	1/M	GRAB
082 HEAT REJ**8	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	5.58	BTU/H	*********	*********	*********		0	CONT	CALC
158 CL2, TOTAL FINAL	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	0.022	0.032	MG/L	0	2/M	GRAB
704 NOAEC - ACUTE 48 HR STAT CERIODAPHNIA DUBIA	REPORTD	*********			*********	*********					
	REQRMNT	*********	********		*********	*********	NL	TU-A	0	1/YR	GRAB
721 TUc - CHRONIC 7-DAY STATRE PIMEPHALES PROMELA	REPORTD	*********			*********	*********					
	REQRMNT	*********	********		*********	*********	NL	TU-C	0	1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
This outfall is considered 001/002.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

VA0002071	003
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********		0	1/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU	0	1/M	GRAB
083 HEAT REJ**9	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	1.14	BTU/H	*********	*********	*********		0	CONT	CALC
158 CL2, TOTAL FINAL	REPORTD										
	REQRMNT	********	********			0.022	0.032	MG/L	0	2/M	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD				*********						
	REQRMNT	********	********		*********	NL	NL	MG/L	0	1/6M	GRAB
704 NOAEC - ACUTE 48 HR STAT CERIODAPHNIA DUBIA	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-A	0	1/YR	GRAB
721 TUc - CHRONIC 7-DAY STATRE PIMEPHALES PROMELA	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-C	0	1/YR	GRAB
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

VA0002071	004
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********		0	2/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU	0	2/M	GRAB
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30.	100.	MG/L	0	2/M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L	0	1/3M	GRAB
013 NITROGEN, TOTAL (AS N)	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L	0	1/3M	GRAB
039 AMMONIA, AS N	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L	0	1/3M	GRAB
068 TKN (N-KJEL)	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L	0	1/3M	GRAB
082 HEAT REJ**8	REPORTD				*********	*********	*********				
	REQRMNT	********	1.9	BTU/H	*********	*********	*********		0	2/M	CALC

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

VA0002071	004
PERMIT NUMBER	DISCHARGE NUMBER

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DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
158 CL2, TOTAL FINAL	REPORTD				*********						
	REQRMNT	********	********		*********	0.022	0.032	MG/L	0	1/W	GRAB
389 NITRITE+NITRATE-N,TOTAL	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L	0	1/3M	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15.	20.	MG/L	0	2/M	GRAB
704 NOAEC - ACUTE 48 HR STAT CERIODAPHNIA DUBIA	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-A	0	1/YR	GRAB
705 NOAEC - ACUTE 48 HR STAT PIMEPHALES PROMELAS	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-A	0	1/YR	GRAB
720 TUc - CHRONIC 3-BROOD STATRE CERIODAPHNIA DUBIA	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-C	0	1/YR	GRAB
721 TUc - CHRONIC 7-DAY STATRE PIMEPHALES PROMELA	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-C	0	1/YR	GRAB
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

VA0002071	005
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********		0	2/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU	0	2/M	GRAB
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30.	50.	MG/L	0	2/M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L	0	1/3M	GRAB
013 NITROGEN, TOTAL (AS N)	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L	0	1/3M	GRAB
039 AMMONIA, AS N	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L	0	1/3M	GRAB
068 TKN (N-KJEL)	REPORTD				*********		*********				
	REQRMNT	********	********		*********	NL	*********	MG/L	0	1/3M	GRAB
389 NITRITE+NITRATE-N,TOTAL	REPORTD	*********			*********		*********				
	REQRMNT	*********	********		*********	NL	*********	MG/L	0	1/3M	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0002071	005
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 10/19/2007

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15.	20.	MG/L	0	2/M	GRAB
711 TUa - ACUTE 48 HR STAT CERIODAPHNIA DUBIA	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-A	0	1/YR	GRAB
712 TUa - ACUTE 48 HR STAT PIMEPHALES PROMELAS	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-A	0	1/YR	GRAB
720 TUc - CHRONIC 3-BROOD STATRE CERIODAPHNIA DUBIA	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-C	0	1/YR	GRAB
721 TUc - CHRONIC 7-DAY STATRE PIMEPHALES PROMELA	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	TU-C	0	1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

VA0002071	007
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL		*********	*********	*********		0	1/3M	MEAS
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

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NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

VA0002071	008
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

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(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********		0	1/3M	MEAS
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

VA0002071	201
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********		0	1/D-M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU	0	1/D-W	GRAB
016 CHROMIUM, TOTAL (AS CR)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	0.2	0.2	MG/L	0	1/D-M	GRAB
020 ZINC, TOTAL (AS ZN)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1.0	1.0	MG/L	0	1/D-M	GRAB
044 CL2, FREE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	0.2	0.5	MG/L	0	1/D-W	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

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ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

VA0002071	202
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********		0	1/D-M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU	0	1/D-W	GRAB
016 CHROMIUM, TOTAL (AS CR)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	0.2	0.2	MG/L	0	1/D-M	GRAB
020 ZINC, TOTAL (AS ZN)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1.0	1.0	MG/L	0	1/D-M	GRAB
044 CL2, FREE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	0.2	0.5	MG/L	0	1/D-W	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

VA0002071	501
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********		0	1/D-M	EST
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30.	100.	MG/L	0	1/D-M	GRAB
019 COPPER, TOTAL (AS CU)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1.0	1.0	MG/L	0	1/D-M	GRAB
031 IRON, TOTAL (AS FE)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1.0	1.0	MG/L	0	1/D-M	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15.	20.	MG/L	0	1/D-M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

VA0002071	502
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********		0	2/M	EST
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD				*********						
	REQRMNT	********	********		*********	30	60	MG/L	0	2/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

THIS REPORT IS REQUIRED BY LAW (33 U. S. C. § 1318 40 CFR 122.60). FAILURE TO REPORT OR FAILURE TO REPORT TRUTHFULLY CAN RESULT IN CIVIL PENALTIES NOT TO EXCEED $10,000 PER DAY OF VIOLATION: OR IN CRIMINAL PENALTIES NOT TO EXCEED $25,000 PER DAY OF VIOLATION OR BY IMPRISONMENT FOR NOT MORE THAN FIVE YEARS, OR BOTH.

GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces are blank or a limitation appears, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and, if appropriate, maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading". KG/DAY = Concentration(mg/l) x Flow(MGD) x 3.785.
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. Enter the number of samples which do not comply with the maximum and /or minimum permit requirements in the "reported" space in the column marked "No. Ex.".
7. Enter the actual frequency of analysis for each parameter (number of times per day, week, month) in the "reported" space in the column marked "Frequency of Analysis".
8. Enter the actual type of sample collected for each parameter in the "reported" space in the column marked "Sample Type".
9. Enter additional required data or comments in the space marked "additional permit requirements or comments".
10. Record the number of bypasses during the month, the total flow in million gallons and BOD5 in kilograms in the proper columns in the section marked "Bypasses and Overflows".
11. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator, the operator's certificate number should be reported in the space provided.
12. The principal executive officer should then review the form and sign in the space provided and provide a telephone number where he/she can be reached.
13. You are required to sample at the frequency and type indicated in your permit.
14. Send the completed form to your Dept. of Environmental Quality Regional Office by the 10th of each month.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each violation by date.
17. If you have any questions, contact the Dept. of Environmental Quality Regional Office.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No.: VA0002071
Effective Date: October 24, 2007
Expiration Date: October 23, 2012

AUTHORIZATION TO DISCHARGE UNDER THE
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I – Effluent Limitations and Monitoring Requirements, and Part II – Conditions Applicable To All VPDES Permits, as set forth herein.

Owner: Virginia Electric and Power Company

Facility Name: Possum Point Power Station

City: Dumfries

County: Prince William

Facility Location: 19000 Possum Point Road

The owner is authorized to discharge to the following receiving streams:

Stream: Potomac River, Quantico Creek and Quantico Creek, UT

River Basin: Potomac River

River Subbasin: Potomac River

Section: 06

Class: II

Special Standards: b

Thomas A. Faha
Director, Northern Regional Office
Department of Environmental Quality

10/24/07
Date

A. Effluent Limitations and Monitoring Requirements

1. Outfall 001/002 – Seal Pit and Unit 3 Noncontact Cooling Water

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 001 / 002, from the Seal Pit. The waste streams from outfalls 001 / 002 are combined in the Seal Pit. Therefore, the discharge quality from the two outfalls is considered to be identical, but other waste streams enter outfall 002, thus the samples must be procured from 002's discharge pipe. The reporting may be recorded on one Discharge Monitoring Report (DMR), designated as Outfall 001 /002. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	1/M	Grab
Chlorine, Total Residual[2]	0.022 mg/l	N/A	N/A	0.032 mg/l	2/M	Grab
Heat Rejection (Unit 3)[3]	N/A	N/A	N/A	5.58×10^8 BTU/Hour	Continuous	Calculated
Intake Temperature(°C)[5]	NL	N/A	NL	NL	1/D	IS
Temperature(°C)[5]	NL	N/A	NL	NL	1/D	IS
Acute Toxicity – *C. dubia* (TU_a) [4]	N/A	N/A	N/A	NL	1/YR	Grab
Chronic Toxicity – *P. promelas* (TU_c) [4]	N/A	N/A	N/A	NL	1/YR	Grab

S.U. = Standard Units.
NL = No limit; monitor and report.
MGD = Million gallons per day.
N/A = Not applicable.
IS = Immersion Stabilization.
1/D = Once every day.
2/M = Twice every month.
1/M = Once every month.
1/YR = Once every year.

[1] = The average flow is 112.5 MGD.
[2] = While Chlorinating Unit Condensers. Please see Part I.B.1, Additional requirements
[3] = Heat Rejection is measured at the respective Condenser Units, prior to discharge to the Seal Basin.
[4] = Please see Part I.C., Toxic Management Program.
[5] = Please see Part I.D., Schedule of Compliance for Temperature Monitoring.

Estimate: Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

A. Effluent Limitations and Monitoring Requirements

2. Outfall 201 – Unit 5 Cooling Tower Blowdown

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 201 (Cooling Tower Blowdown – Unit 5), the effluent from the final treatment process. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/D - M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	1/D - W	Grab
Chlorine, Free Available[2]	N/A	0.2 mg/l	N/A	0.5 mg/l	1/D – W	Grab
Total Chromium	0.2 mg/l	N/A	N/A	0.2 mg/l	1/D - M	Grab
Total Zinc	1.0 mg/l	N/A	N/A	1.0 mg/l	1/D – M	Grab
126 Priority Pollutants [3] (Appendix A of 40 CFR 423)	Non-detectable	N/A	N/A	Non-detectable	1/D – Y	Grab

NL = No limit; monitor and report.
S.U. = Standard units.
MGD = Million gallons per day.
N/A = Not applicable.
1/D – M = Once per Month in which there is a discharge.
1/D - W = Once per week in which there is a discharge.
1/D - Y = Once per year in which there is a discharge.

[1] = The average flow is 3.1 MGD.
[2] = While chlorinating the Unit 5 cooling tower.
[3] = Please see Part I.E.8., for exclusion from sampling

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

A. Effluent Limitations and Monitoring Requirements

3. Outfall 202 – Unit 6 Cooling Tower Blowdown

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 202 (Cooling Tower Blowdown – Unit 6), the effluent from the final treatment process. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/D - M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	1/D - W	Grab
Chlorine, Free Available[2]	N/A	0.2 mg/l	N/A	0.5 mg/l	1/D – W	Grab
Total Chromium	0.2 mg/l	N/A	N/A	0.2 mg/l	1/D - M	Grab
Total Zinc	1.0 mg/l	N/A	N/A	1.0 mg/l	1/D – M	Grab
126 Priority Pollutants [3] (Appendix A of 40 CFR 423)	Non-detectable	N/A	N/A	Non-detectable	1/D – Y	Grab

NL = No limit; monitor and report.
N/A = Not applicable.
MGD = Million gallons per day.
S.U. = Standard units.
1/D - M = Once per Month in which there is a discharge.
1/D - W = Once per week in which there is a discharge.
1/D – Y = Once per year in which there is a discharge.

[1] = The average flow is 1.0 MGD.
[2] = While chlorinating the Unit 6 cooling tower.
[3] = Please see Part I.E.8., for exclusion from sampling

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

A. Effluent Limitations and Monitoring Requirements

4. Outfall 003 – Unit 4 Non-contact Cooling Water

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 003 (Cooling Water - Unit 4). Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	1/M	Grab
Chlorine, Total Residual[2]	0.022 mg/l	N/A	N/A	0.032 mg/l	2/M	Grab
Heat Rejection (Unit 4)[3]	N/A	N/A	N/A	1.14×10^9 BTU/Hour	Continuous	Calculated
Temperature(°C)[5]	NL	N/A	NL	NL	1/W	IS
Dissolved Copper	NL	N/A	N/A	NL	1/6M	Grab
Acute Toxicity – *C. dubia* (TU_a) [4]	N/A	N/A	N/A	NL	1/Y	Grab
Chronic Toxicity – *P. promelas* (TU_c) [4]	N/A	N/A	N/A	NL	1/Y	Grab

N/A = Not applicable.
NL = No limit; monitor and report.
MGD = Million gallons per day.
S.U. = Standard Units
IS = Immersion Stabilization.
2/M = Twice every Month.
1/W = Once every week.
1/M = Once every month.
1/Y = Once every year.
1/6M = Once every six months.

[1] = The average flow is 120.6 MGD.
[2] = While Chlorinating the Unit 4 condenser. Please see Part I.B.1, Additional Requirements.
[3] = Heat Rejection is measured at the respective Condenser Units, prior to discharge to the Seal Basin.
[4] = Please see Part I.C., Toxic Management Program.
[5] = Please see Part I.D., Schedule of Compliance for Temperature Monitoring.

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

A. Effluent Limitations and Monitoring Requirements

5. Outfall 004 – Low Volume Waste Settling Basin

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 004 (Low Volume Waste Settling Basin). Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)[1]	NL	N/A	N/A	NL	2/M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	2/M	Grab
Oil and Grease	15 mg/l	N/A	N/A	20 mg/l	2/M	Grab
Nitrogen, Total (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
TKN (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Ammonia (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Nitrate+Nitrite (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Phosphorus, Total (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Heat Rejection (Unit 6)[2]	NL	NL	N/A	1.9×10^8 BTU/hr	2/M	Calculated
Temperature (°C)[5]	NL	N/A	NL	NL	1/W	IS
Total Suspended Solids	30 mg/l	N/A	N/A	100	2/M	Grab
Chlorine, Total Residual[3]	0.022 mg/l	N/A	N/A	0.032 mg/l	1/W	Grab
Acute Toxicity – *P. promelas* (TU_a) [4]	N/A	N/A	N/A	NL	1/YR	Grab
Acute Toxicity – *C. dubia* (TU_a) [4]	N/A	N/A	N/A	NL	1/YR	Grab
Chronic Toxicity – *P. promelas* (TU_c) [4]	N/A	N/A	N/A	NL	1/YR	Grab
Chronic Toxicity – *C. dubia* (TU_c) [4]	N/A	N/A	N/A	NL	1/YR	Grab

NL = No limit; monitor and report.
S.U. = Standard units.

MGD = Million gallons per day.
N/A = Not applicable.
C = Celsius
IS = Immersion and Stabilization

2/M = Twice every Month.
1/3 M = Once every Quarter
1/W = Once every Week
1/M = Once every Month.

[1] = The average flow is 1.3 MGD.
[2] = Heat Rejection is to be calculated for the effluent at Outfall 004.
[5] = Please see Part I.D., Schedule of Compliance for Temperature Monitoring.
[3] = While Chlorinating only
[4] = Please see Part I.C., Toxic Management Program.

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

A. Effluent Limitations and Monitoring Requirements

6. Outfall 005 – Ash Pond E

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 005 (Ash Pond E), the effluent from the final treatment process, unless otherwise specified. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	2/M	Estimate
pH	N/A	N/A	6.0 S.U.	9.0 S.U.	2/M	Grab
Oil and Grease	15 mg/l	N/A	N/A	20 mg/l	2/M	Grab
Nitrogen, Total (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
TKN (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Ammonia (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Nitrate+Nitrite (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Phosphorus, Total (mg/l)	NL	N/A	N/A	N/A	1/3 M	Grab
Total Suspended Solids	30 mg/l	N/A	N/A	50 mg/l	2/M	Grab
Acute Toxicity – *C. dubia* (TU_a) [2]	N/A	N/A	N/A	NL	1/YR	Grab
Acute Toxicity – *P. promelas* (TU_a) [2]	N/A	N/A	N/A	NL	1/YR	Grab
Chronic Toxicity – *C. dubia* (TU_c) [2]	N/A	N/A	N/A	NL	1/YR	Grab
Chronic Toxicity – *P. promelas* (TU_c) [2]	N/A	N/A	N/A	NL	1/YR	Grab

NL = No limit; monitor and report.
S.U. = Standard units.
MGD = Million gallons per day.
N/A = Not applicable.
2/M = Twice every month.
1/3 M = Once every Quarter
1/YR = Once every Year.

[1] = The average flow is 2.0 MGD.
[2] = Please see Part I.C., Toxic Management Program.

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

A. Effluent Limitations and Monitoring Requirements

7. Outfall 501 – Metals Cleaning Waste Basin

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permits effective date and lasting until the permits expiration date, the permittee is authorized to discharge from Outfall Number 501 (Metals Cleaning Waste Basin), the effluent from the final treatment process, unless otherwise specified. Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/D - M	Estimate
Oil and Grease	15 mg/l	N/A	N/A	20 mg/l	1/D - M	Grab
Total Suspended Solids	30 mg/l	N/A	N/A	100 mg/l	1/D - M	Grab
Total Iron	1.0 mg/l	N/A	N/A	1.0 mg/l	1/D - M	Grab
Total Copper	1.0 mg/l	N/A	N/A	1.0 mg/l	1/D - M	Grab

NL = No limit; monitor and report.
S.U. = Standard Units.
MGD = Million gallons per day.
N/A = Not applicable.
1/D – M = Once per Month in which there is a discharge

[1] = The average flow is 2.0 MGD.

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

A. Effluent Limitations and Monitoring Requirements

8. Outfall 502 – Oily Waste Pond

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permits effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 502 (Oily Waste Pond). Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	2/M	Estimate
Total Petroleum Hydrocarbons (TPH)	30 mg/l	N/A	N/A	60 mg/L	2/M	Grab

NL = No limit; monitor and report.
MGD = Million gallons per day.
N/A = Not applicable.
2/M = Twice every month.

[1] = The average flow is 0.3 MGD.

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
Grab : An individual sample collected over a period of time not to exceed 15-minutes.

A. Effluent Limitations and Monitoring Requirements

9. Outfalls 007 and 008 – Intake Screen Backwash Water

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permits effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Numbers 007 and 008 (Intake Screen Backwash Water). Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD) [1]	NL	N/A	N/A	NL	1/3M*	Measured**

NL = No limit; monitor and report. *MGD* = Million gallons per day. *N/A* = Not applicable. *1/3M* = Once every three months.

[1] = The average flow for 007 is 0.3 MGD. The average flow for 008 is 2.2 MGD.

Estimate : Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.

* The quarters shall be January1 – March 31, April 1 – June 30, July 1 – September 30, and October 1 – December 31. The DMR shall be submitted to DEQ-NVRO on April 10, July 10, October 10, and January 10, respectively.

** In lieu of providing measured flow at Outfalls 007 and 008, the permittee may estimate flows and submit the following information with their April 10 DMR:

1) a description of the methodology used to estimate flow at each outfall where flow measurement equipment is not present;
2) documentation appropriate to the methodology utilized which provides information necessary to support the validity of the reported flow estimate. If actual measurements or observations are made, a description of typical sampling times, locations, and persons performing the measurements/observations shall also be provided; and
3) a description of the factors (e.g., batch discharges, intermittent operation, etc.) which cause flow at the outfall to fluctuate significantly from the estimate provided.

A. Effluent Limitations and Monitoring Requirements

10. Groundwater Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permits expiration date, the permittee is authorized to manage pollutants at Ash Pond D and Ash Pond E. The groundwater shall be monitored at the observation well by the permittee as specified below for the following observation wells:

Observation Wells					
Ash Pond D	Stratum D	ED-1, ED-3, ED-9R, ED-15, ED-24R, ED-32	Ash Pond E	Stratum D	ES-1, ES-3a, ES-4

PARAMETER	GROUNDWATER MONITORING		MONITORING REQUIREMENTS	
	Limitations	Units	Frequency	Sample Type
Static Water Level (mean sea level)	NL	Feet	Semiannually	Measurement
pH	NL	Standard Units	Semiannually	Grab
Specific Conductivity	NL	Umhos/cm	Semiannually	Grab
Hardness	NL	as $CaCO_3$, mg/l	Semiannually	Grab
Chlorides	NL	mg/l	Semiannually	Grab
Fluoride	NL	mg/l	Semiannually	Grab
Sodium	NL	mg/l	Semiannually	Grab
Potassium	NL	mg/l	Semiannually	Grab
Sulfate	NL	mg/l	Semiannually	Grab
Total Organic Carbon (TOC)	NL	mg/l	Semiannually	Grab
Temperature	NL	°C	Semiannually	Grab
Dissolved Arsenic	NL	mg/l	Semiannually	Grab
Dissolved Barium	NL	mg/l	Semiannually	Grab
Dissolved Cadmium	NL	mg/l	Semiannually	Grab
Dissolved Copper	NL	mg/l	Semiannually	Grab
Dissolved Iron	NL	mg/l	Semiannually	Grab
Dissolved Mercury	NL	mg/l	Semiannually	Grab
Dissolved Lead	NL	mg/l	Semiannually	Grab
Dissolved Nickel	NL	mg/l	Semiannually	Grab
Dissolved Manganese	NL	mg/l	Semiannually	Grab
Dissolved Selenium	NL	mg/l	Semiannually	Grab
Dissolved Silver	NL	mg/l	Semiannually	Grab
Dissolved Vanadium	NL	mg/l	Semiannually	Grab
Dissolved Zinc	NL	mg/l	Semiannually	Grab
Phenol	NL	mg/l	Semiannually	Grab

NL = No Limit: monitor and report
Grab = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

A. Effluent Limitations and Monitoring Requirements

11. Groundwater Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permits expiration date, the permittee is authorized to manage pollutants at Ash Pond D and Ash Pond E. The groundwater shall be monitored at the observation well by the permittee as specified below for the following observation wells:

Observation Wells		
Ash Pond D and E	Stratum B	ED-4, ED-5, ED-17
	Stratum E	ED-31
	Stratum F	ED-26, ED-33

PARAMETER	GROUNDWATER MONITORING		MONITORING REQUIREMENTS	
	Limitations	Units	Frequency	Sample Type
Static Water Level (mean sea level)	NL	Feet	Annually	Measurement
pH	NL	Standard Units	Annually	Grab
Specific Conductivity	NL	Umhos/cm	Annually	Grab
Hardness	NL	as $CaCO_3$, mg/l	Annually	Grab
Chlorides	NL	mg/l	Annually	Grab
Fluoride	NL	mg/l	Annually	Grab
Sodium	NL	mg/l	Annually	Grab
Potassium	NL	mg/l	Annually	Grab
Sulfate	NL	mg/l	Annually	Grab
Total Organic Carbon (TOC)	NL	mg/l	Annually	Grab
Temperature	NL	°C	Annually	Grab
Dissolved Arsenic	NL	mg/l	Annually	Grab
Dissolved Barium	NL	mg/l	Annually	Grab
Dissolved Cadmium	NL	mg/l	Annually	Grab
Dissolved Copper	NL	mg/l	Annually	Grab
Dissolved Iron	NL	mg/l	Annually	Grab
Dissolved Mercury	NL	mg/l	Annually	Grab
Dissolved Lead	NL	mg/l	Annually	Grab
Dissolved Nickel	NL	mg/l	Annually	Grab
Dissolved Manganese	NL	mg/l	Annually	Grab
Dissolved Selenium	NL	mg/l	Annually	Grab
Dissolved Silver	NL	mg/l	Annually	Grab
Dissolved Vanadium	NL	mg/l	Annually	Grab
Dissolved Zinc	NL	mg/l	Annually	Grab
Phenol	NL	mg/l	Annually	Grab

NL = No Limit: monitor and report
Grab = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

A. Effluent Limitations and Monitoring Requirements

12. Groundwater Monitoring Requirements

a. During the period with the permit's effective date and lasting until the permits expiration date, the permittee is authorized to manage pollutants at the Oily Waste Basin. The groundwater shall be monitored at the observation well by the permittee as specified below for the following observation wells:

Observation Wells	
Oily Waste Pond	OWB-1, OWB-2, OWB-3, OWB-4, OWB-5

PARAMETER	GROUNDWATER MONITORING		MONITORING REQUIREMENTS	
	Limitations	Units	Frequency	Sample Type
Static Water Level (mean sea level)	NL	Feet	Semiannually	Measurement
pH	NL	Standard Units	Semiannually	Grab
Specific Conductivity	NL	Umhos/cm	Semiannually	Grab
Hardness	NL	as $CaCO_3$, mg/l	Semiannually	Grab
Chlorides	NL	mg/l	Semiannually	Grab
Fluoride	NL	mg/l	Semiannually	Grab
Sodium	NL	mg/l	Semiannually	Grab
Potassium	NL	mg/l	Semiannually	Grab
Sulfate	NL	mg/l	Semiannually	Grab
Total Organic Carbon (TOC)	NL	mg/l	Semiannually	Grab
Temperature	NL	°C	Semiannually	Grab
Dissolved Arsenic	NL	mg/l	Semiannually	Grab
Dissolved Barium	NL	mg/l	Semiannually	Grab
Dissolved Cadmium	NL	mg/l	Semiannually	Grab
Dissolved Copper	NL	mg/l	Semiannually	Grab
Dissolved Iron	NL	mg/l	Semiannually	Grab
Dissolved Mercury	NL	mg/l	Semiannually	Grab
Dissolved Lead	NL	mg/l	Semiannually	Grab
Dissolved Nickel	NL	mg/l	Semiannually	Grab
Dissolved Manganese	NL	mg/l	Semiannually	Grab
Dissolved Selenium	NL	mg/l	Semiannually	Grab
Dissolved Silver	NL	mg/l	Semiannually	Grab
Dissolved Vanadium	NL	mg/l	Semiannually	Grab
Dissolved Zinc	NL	mg/l	Semiannually	Grab
Total Petroleum Hydrocarbons (TPH)	NL	mg/l	Semiannually	Grab
Benzene	NL	mg/l	Semiannually	Grab
Ethylbenzene	NL	mg/l	Semiannually	Grab
Toluene	NL	mg/l	Semiannually	Grab
Total Xylenes	NL	mg/l	Semiannually	Grab
Phenol	NL	mg/l	Semiannually	Grab

NL = No Limit: monitor and report
Grab = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

B. Additional Effluent Limitations, Monitoring Requirements, and Instructions

1. Additional Total Residual Chlorine (TRC) Limitations and Monitoring Requirements

   a. Neither free available nor total residual chlorine (TRC) may be discharged from Units 3, 4, 5 and 6 for more than two hours per day, unless the permittee demonstrates to the Department of Environmental Quality (DEQ) that discharge for more than two hours is required for macroinvertebrate control. If permitee is dechlorinating, than the two hours requirement is nullified.

   b. Simultaneous multi-unit chlorination is permitted.

2. Quantification Levels

   a. The maximum quantification levels (QLs) shall be as follows:

Characteristic	Quantification Level
Chlorine	0.10 mg/l
Copper	50 µg/l
Zinc	50 µg/l

   b. The permittee may use any approved method which has a QL equal to or lower than the QL listed in B.2.a. above. Except as specified in B.2.d. below, the QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method.

   c. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained.

3. Compliance Reporting Under Part I.A.

   a. Monthly Average – Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I. A shall be determined as follows: All concentration data below the QL listed above shall be treated as zero. All concentration data equal to or above the QL listed in a. above shall be treated as it is reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, for the month. This arithmetic average shall be reported on the DMR as calculated. If all data are below the QL then the average shall be reported as <QL. If reporting for quantity is required on the DMR and the calculated concentration is <QL then report <QL for the quantity, otherwise use the calculated concentration to determine the monthly average quantity.

   b. Daily Maximum - Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in Part I.A. shall be determined as follows: All concentration data below the QL listed above shall be treated as zero. All concentration data equal to or above the QL listed in a. above shall be treated as reported. An arithmetic average of the values shall be calculated using all reported data, including defined zeros, collected for each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL then the average shall be reported as <QL. If reporting for quantity is required on the DMR and the calculated concentration is <QL then report <QL for the quantity otherwise use the calculated concentration to determine the quantity.

c. Any single datum required shall be reported as <QL if it is less than the QL in a. above. Otherwise the numerical value shall be reported.

d. The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

C. Toxic Management Program

1. Biological Monitoring

a. In accordance with the schedule in Part I.C.2. below, the permittee shall conduct the following testing:
1) Outfall 001/002 shall be annual acute and chronic toxicity testing.
2) Outfall 003 shall be annual acute and chronic toxicity testing.
3) Outfall 004 and 005 shall be annual acute and chronic toxicity testing.

b. The permittee shall collect the following toxicity testing samples as:
1) Grab samples from Outfall 001/002, 003, 004, and 005. Outfall 001/002 will be collected in the 002 outfall pipe below any internal waste stream entering it.

c. The permittee shall conduct the toxicity test with the following organisms and procedures:

1) The permittee shall conduct acute toxicity test on these outfalls Outfalls 001/002 and 003 using *Ceriodaphnia dubia* and chronic toxicity tests using *Pimephales promelas*.
2) The permittee shall conduct acute and chronic toxicity test on this outfall 004 and 005 using both *Pimephales promelas* and *Ceriodaphnia dubia.*

The acute multi-dilution No Observed Adverse Effect Concentration (NOAEC) tests to use are:
Ceriodaphnia dubia: 48-Hour Static test; and
Pimephales promelas: 48-Hour Static test.

These acute tests are to be conducted using five (5) geometric dilutions of effluent with a minimum of four (4) replicates, with five (5) organisms in each. The NOAEC, as determined by hypotheses testing shall be converted to Acute Toxicity Units (TU_a), where TU_a = 100/NOAEC, and reported on the DMR. The LC_{50} shall also be determined and noted on the submitted report. Tests in which control survival is less than 90% are not acceptable.

The chronic tests to use are:
Ceriodaphnia dubia: Chronic 3-Brood Static Renewal Survival and Reproduction Test, and
Pimephales promelas: Chronic 7-Day Static Renewal Survival and Growth Test.

These chronic tests shall be conducted in such a manner and at sufficient dilutions (i.e., minimum of five (5) dilutions, geometrically derived) to determine the No Observed Effect Concentration (NOEC) for survival and reproduction or growth. For Outfall 001/002, 003, and 005 the chronic test dilutions shall be able to determine compliance with a chronic NOEC endpoint of 35% equivalent to a Chronic Toxic Unit (TU_c) of 2.85. For Outfall 004 the chronic test dilutions shall be able to determine compliance with a chronic NOEC endpoint of 17% equivalent to a Chronic Toxic Unit (TU_c) of 5.88. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable and a retest will have to be performed. Express the test NOEC as Chronic Toxic Units (TU_c) for DMR reporting where TU_c = 100/NOEC. Report the LC_{50} at 48 hours and the IC_{25} with the NOEC's in the test report.

Any retest of a non-acceptable test must be performed during the same time period as the unacceptable test, or within 30 days of receiving the results of the unacceptable test if less than 30 days remain in the test period on the day the results are received by the permittee. Effluent samples shall not be dechlorinated prior to use in toxicity test.

d. The permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of effluent toxicity.

e. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR Part 136.3.

f. Should the results of any test exceed the endpoint cited above, the permittee must conduct a retest of the effluent within 30 days of receiving the test results. If an evaluation of the data indicates that a limit is needed, the permit may be modified to include a WET limit and a schedule of compliance.

g. Use of test methods, protocols, and alternative species other than specified in Part I.C.1. above shall be approved by DEQ-NVRO prior to initiation of testing.

2. Reporting Schedule

The permittee shall monitor during the month specified and report the results on the DMR and supply a copy of the toxicity test report specified in this Toxics Management Program in accordance with the following schedule:

Period	***Sampling Period***	***DMR/Report Submission Date***
Annual 1	June to August 2008	September 2008
Annual 2	June to August 2009	September 2009
Annual 3	June to August 2010	September 2010
Annual 4	June to August 2011	September 2011
Annual 5	June to August 2012	September 2012

D. Schedule of Compliance – Temperature Monitoring for Outfalls 001/002, 003 and 004

1. The permittee shall begin monitoring for Temperature as specified In Part I.A. for Outfalls 001/002 (Intake and effluent temperature), 003 (effluent temperature), and 004 (effluent temperature) within one year of the reissuance date of the permit.

2. The permittee shall submit to the Department of Environmental Quality, Northern Virginia Regional Office, a report of how the monitoring at each of the outfalls shall be accomplished. This report may be included as part of the Thermal Mixing Zone Study that is required in Part I.E.9. of this permit.

3. During the compliance period, the permittee must (1) continue to operate the facility in a manner that will minimize or avoid degradation of the effluent from current operating levels and (2) notify DEQ prior to making any substantial process control modifications that might degrade the quality of the effluent.

E. Other Requirements

1. <u>Operation and Maintenance Manual Requirement</u>
Within 180 days of the reissuance date of this permit, the permittee shall submit for approval an a revised Operations and Maintenance (O&M) Manual or a statement confirming the accuracy and completeness of the current O&M Manual to the DEQ, Northern Virginia Regional Office.

The permittee shall maintain a current and approved O&M Manual for the facility. This manual shall detail the practices and procedures, which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items:

a. Treatment works design, treatment works operation, routine preventative maintenance of units within the treatment system, critical spare parts inventory and record keeping;
b. Techniques to be employed in the collection, preservation and analysis of effluent samples;
c. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants characterized that will prevent these materials from reaching state waters; and
d. A plan for the management and/or disposal of waste solids, residues, /Residue/Sludge Management and Disposal Plan.
e. Discussion of Best Management Practices.

The permittee shall operate the facility in accordance with the approved O & M Manual. Non-compliance with the O&M Manual shall be deemed a violation of the permit. Future changes to the practices and procedures followed by the permittee must be addressed by the submittal of a revised O&M Manual to DEQ for approval within 90 days of the changes.

2. Notification Levels

The permittee shall notify the Department as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
   1) One hundred micrograms per liter;
   2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony;
   3) Five times the maximum concentration value reported for that pollutant in the permit application; or
   4) The level established by the Board.
b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
   1) Five hundred micrograms per liter;
   2) One milligram per liter for antimony;
   3) Ten times the maximum concentration value reported for that pollutant in the permit application; or
   4) The level established by the Board.

3. Materials Handling/Storage

Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

4. Prohibition of Chemical Additives

The permittee shall notify DEQ-NVRO, in writing at least thirty (30) days prior to the use of chemical additives in the non-contact cooling water. The written notice shall contain the following:

a. Names of the proposed chemical additives to be used and corresponding copies of their Material Safety Data Sheets (MSDS).

b. Proposed schedule of chemical additive use; and
c. Description of any proposed wastewater treatment and/or retention to be provided during the use of chemical additives.

Should the use of chemical additives significantly alter the characteristics of the non-contact cooling water discharge or if the use of chemical additives becomes persistent or continuous, this permit may be modified or alternatively, revoked and reissued to include appropriate limitations or conditions.

5. Polychlorinated Biphenyl
There shall be no discharge of Polychlorinated Biphenyl (PCBs) compounds from this source in amounts equal to or greater than detectable by EPA test methods specified in 40 CFR Part 136, Guidelines for Establishing Test Procedures for the Analysis of Pollutants.

6. Water Quality Criteria Reopener
Should effluent monitoring indicate the need for any water quality-based limitations, this permit may be modified or alternatively revoked and reissued to incorporate appropriate limitations.

7. Water Quality Criteria Monitoring
The permittee shall monitor the effluent at Outfall 004 and 005 for the substances noted in Attachment A of the permit according to the indicated analysis number, quantification level, sample type and frequency. Monitoring shall be performed annually from the reissuance date. Using Attachment A as the reporting form, the data shall be submitted no later than two months after sampling occurs. Monitoring and analysis shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved method. Alternative EPA approved methods other than those specified in Attachment A may be used with prior notification to and approval from DEQ-NVRO. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

8. 126 Priority Pollutants for Outfalls 201 and 202
Any and all 126 priority pollutants listed in Appendix A to 40 CFR 423, contained in the chemicals added for cooling tower maintenance, shall be non-detectable in the blowdown discharge water. Sampling these pollutants (except total chromium and total zinc) from the discharge point shall be conducted annually when there is a discharge.

This monitoring requirement may be waived if the permittee submits engineering calculations which demonstrate that the regulated pollutants are not detectable in the final discharge by the analytical methods in 40 CFR Part 136.

The permittee shall notify DEQ-NVRO of any process change in the cooling tower, which may affect the quality of the associated discharge water.

9. Thermal Mixing Zone Monitoring
Within one year of the reissuance date, the permittee shall submit a proposal to study and redefine the thermal mixing zone. The proposal for the study shall be submitted to the Northern Virginia Regional Office of DEQ for review and approval.

Within four years of the reissuance date, the permittee shall submit the results of the thermal mixing zone including all the supporting documentation.

Until the updated study is reviewed and approved, monitoring shall continue using the current approved mixing zone. The current mixing zone is defined as the part of Quantico Creek from the established border between the Commonwealth of Virginia and the State of Maryland, upstream approximately 5.2 kilometers

(based on centerline measurement; bounded vertically by the extreme high water mark and the bottom of the creek, including all tidal marshlands, tidal mud flats, coves, inlets, and embayment within the defined area).

Monitoring of the approved thermal mixing zone shall take place twice a year during the months of July and February. The monitoring results shall be presented as a temperature plot with 3 degree centigrade isotherms and will be taken as near to full plant operating conditions as reasonably possible. The results of the July monitoring shall be submitted on or before October 31 of each year. The results of the February monitoring shall be submitted on or before May 31 of each year. The permittee shall comply with the State Water Quality Criteria outside of the approved mixing zone.

10. Debris Collection
Wastes such as solids, sludges, or other pollutants removed from or resulting from treatment or control of wastewaters, or facility operations, including all debris collected on the intake trash racks, shall be disposed of in a manner to prevent any removed substances or runoff from such substances from entering or from being placed in a location where they may enter the waters of the State.

11. Solids in Ash Pond D

a. Ash Pond D may be used as a repository for dredge spoil material and residuals removed from facilities, areas, and systems related to operation and maintenance of Possum Point Power Station. These materials and residuals include :
   1) Solids from VPDES treatment ponds and storm water management facilities;
   2) Solids from old/closed VPDES treatment ponds (Ash Pond A, B and C).
   3) Solids from station floor drains, lift stations, and sumps;
   4) Water treatment plant filter cake and cooling tower basin sludge;
   5) Soil and fines from station beautification and land restoration projects, including the coal pile area, deicing grit, abrasives, and inert cleanup debris such as surplus soil, rock, and gravel;
   6) Sand/silt/sediment in the Potomac River and Quantico Creek within and adjacent to cooling water intake structures, outfall structures, oil barge berths, shoreline revetments, boat ramp, transportation structures, and navigation-related channels and structures.

b. Ash Pond D may be used as a repository for dredge spoil material that is not related to operations at Possum Point Power Station provided the material originated from the Potomac River Basin meeting the definition of state waters in Virginia. The following guideline must be followed:

   1) Dominion shall provide written notice to the Department of Environmental Quality-Northern Virginia Regional Office (DEQ-NVRO) at least 30 days prior to the placement of any dredge spoil material in Ash Pond D. This notice shall include as a minimum the following information:

      a) Sampling tests and laboratory results (See Part I.E.11.c.),
      b) Copies of all permits or regulatory authorizations required for the project,
      c) Project schedule dates,
      d) Method of placement,
      e) Original location of material,
      f) Type and volume of material,
      g) Name, address, and telephone number of dredging contractor (for placement of dredge spoil material) or station contact (for placement of station residuals).

   2) Specific approval by the DEQ-NVRO is not required for a placement project but the DEQ-NVRO shall have the right to request additional information or halt any noticed activity. If the

placement project is not halted by the DEQ-NVRO within 30 days of receipt of the above notice, the project is deemed authorized.

c. Sampling Requirements.
   1) A "sample" is defined as a Core Dredge sample, which will be a composite of dredge material from the river, stream or lake bottom to the depth of the intended dredge.
   2) Number of Samples taken
      a) >300,000 Cubic Yards of Material
         For every 100,000 cubic yards of material a representative samples shall be collected. These samples shall best represent the materials being placed in Ash Pond D from the dredge area.
      b) <300,000 Cubic Yards, but >50,000 Cubic Yards of Material
         There shall be three representative samples of dredge area. These samples shall best represent the materials being placed in Ash Pond D from the dredge area.
      c) <50,000 Cubic Yards, but >1,000 Cubic Yards of Material
         There shall be two representative samples of dredge area. These samples shall best represent the materials being placed in Ash Pond D from the dredge area.
      d) <1,000 Cubic Yards of Material
         No sampling requirement shall apply to projects involving the placement of material less than 1,000 cubic yards with approval from Dominion (Virginia Power).

   3) All parameters limited in Attachment B shall be sampled. The permittee shall use Attachment B has a reporting form which will be submitted to DEQ-NVRO at least 30 days prior to placement in Ash Pond D. If the measured constituents in the sample exceed any respective threshold levels listed in Attachment B, the material shall not be placed in Ash Pond D.
   4) Materials and residuals related to routine station operations and dredge materials identified in Part I.D. a. shall be tested prior to initial placement under this protocol and if station processes have not materially changed, further testing is not required.
   5) The above sampling requirements for any placement activity may be waived in the event of declared public emergency conditions or by consent of the DEQ-NVRO.

d. The placement of any material in Ash Pond D shall not be incompatible with the Ash Pond D liner system or cause a violation of the VPDES permit requirements applicable to Outfall 005 at Ash Pond E.

e. Dominion shall retain records relating to the placement event for minimum of three years and comply with the requirements of Part II.B.2 of the subject permit.

f. Dredging must be preformed in accordance with all Federal and Virginia laws and regulations.

12. <u>316(b) of the Clean Water Act</u>
As required by §316(b) of the Clean Water Act, the location, design, construction and capacity of the cooling water intake structures for the permitted facility shall reflect the best technology available (BTA) for minimizing adverse environmental impact. Within one year of the effective date of this permit the permittee shall submit biological data collected consistent with that described in the February, 2005 Proposal for Information Collection. This permit may be reopened to address compliance with Clean Water Act §316(b) through requirements including but not limited to those specified in EPA regulations in 40 CFR Part 125 Subpart J when finalized.

13. TMDL Reopener
This permit shall be modified or alternatively revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

F. Groundwater Special Conditions

1. Groundwater Monitoring Requirements
   a. As identified in Part I.A.10-12, of this permit, groundwater monitoring is required from observation wells adjacent to Ash Pond D & E and the Oily Waste Pond as stated in the Groundwater Monitoring Plan approved by DEQ-NVRO.
   b. The permittee shall monitor the groundwater in accordance with the approved Groundwater Monitoring Plan. Non-compliance with the Groundwater Monitoring Plan shall be deemed a violation of the permit. Future changes to the practices and procedures followed by the permittee must be addressed by the submittal of a revised Groundwater Monitoring Plan to DEQ for approval within 90 days of the changes.
   c. Metals samples shall be filtered in the field.

2. Groundwater Reporting
   a. The Groundwater Annual Report will include the annual and all semiannual sampling results for that year.
   b. The Groundwater Annual Report shall include a review of the groundwater quality on the basis of background quality, Water Quality Standards, and statistical deviation thereof, as applicable with the Anti-degradation Policy for Groundwater.
   c. This annual report shall be submitted to DEQ-NVRO by April 30th of each year.

3. Site Characterization Report
   a. Oily Waste Pond
      1) If the ground water monitoring data shows contamination from the oily waste pond, as reported in the annual reports, then a Site Characterization Report may be required by DEQ-NVRO.
      2) The permittee shall submit the Site Characterization Report no later than three years from the following the notice from DEQ-NVRO.
      3) The report shall include, at a minimum, an assessment of the following:
         a) The spatial extent and severity of the contamination depicted by isoconcentration maps.
         b) The cause of the contamination.
         c) Identify both human health and environmental receptors
         d) Assess risk to each receptor.
         e) Analysis of remediation alternatives.

4. Corrective Action Plan
   a. Following a review and approval of Site Characterization Report, a Corrective Action Plan may be required by DEQ-NVRO. This Corrective Action Plan will be due within 180 days upon notification by DEQ-NVRO.
   b. The permittee shall put into practice the Corrective Action Plan within 180 days after it has been approved by DEQ-NVRO.

G. Storm Water Management

1. General Storm Water Pollution Prevention Plan Requirements

The previous permit required a storm water pollution prevention plan. Any necessary revisions to storm water pollution prevention plans shall be prepared in accordance with good engineering practices. The plan shall identify potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the plan shall describe and ensure the implementation of practices that are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. Permittee must implement the provisions of the storm water pollution prevention plan as a condition of this permit.

The storm water pollution prevention plan requirements of this permit may be fulfilled by incorporating by reference other plans or documents such as an erosion and sediment control plan, a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act or best management practices (BMP) programs otherwise required for the facility provided that the incorporated plan meets or exceeds the plan requirements of Part I.G.1.d.. If an erosion and sediment control plan is being incorporated by reference, it shall have been approved by the locality in which the activity is to occur or by another appropriate plan approving authority authorized under the Virginia Erosion and Sediment Control Regulation 4 VAC 50-30-10 et seq. All plans incorporated by reference into the storm water pollution prevention plan become enforceable under this permit.

a. **Deadlines for Plan Preparation and Compliance.**

The storm water pollution prevention plan which was previously prepared and implemented shall be complied with, and continually updated as needed in accordance with the following Part I.G.1. sections.

b. **Signature and Plan Review.**

1) *Signature/Location.* The plan shall be signed in accordance with Part II, K., and be retained onsite at the facility that generates the storm water discharge in accordance with Part II, B.2. For inactive facilities, the plan may be kept at the nearest office of the permittee.

2) *Availability.* The permittee shall make the storm water pollution prevention plan, annual site compliance inspection report, or other information available to DEQ-NVRO upon request.

3) *Required Modifications.* The Director, or authorized representative, may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this permit. Such notification shall identify those provisions of the permit that are not being met by the plan, and identify which provisions of the plan requires modifications in order to meet the minimum requirements of this permit. Within 60-days of such notification from the Director, (or as otherwise provided by the Director), or authorized representative, the permittee shall make the required changes to the plan and shall submit to the Director a written certification that the requested changes have been made.

c. **Keeping Plans Current.**

The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance, that has a significant effect on the potential for the discharge of pollutants to surface waters or if the storm water pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under Part I.G.1.d. of this permit, those pollutants identified in Part I.G.4., or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. New owners shall review

the existing plan and make appropriate changes. Amendments to the plan may be reviewed by the DEQ-NVRO in the same manner as Part I.G.1.b.

d. **Contents of the Plan.**
The contents of the pollution prevention plan shall comply with the requirements listed below and those in Part I.G.3 and 4. These requirements are cumulative. The plan shall include, at a minimum, the following items.

1) *Pollution Prevention Team.* The plan shall identify a specific individual or individuals within the facility organization as members of a storm water Pollution Prevention Team that are responsible for developing the storm water pollution prevention plan and assisting the facility or plant manager in its implementation, maintenance, and revision. The plan shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's storm water pollution prevention plan.

2) *Description of Potential Pollutant Sources.* The plan shall provide a description of potential sources that may reasonably be expected to add significant amounts of pollutants to storm water discharges or that may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. The plan shall identify all activities and significant materials that may potentially be significant pollutant sources. The plan shall include, at a minimum:

a) *Drainage.* A site map indicating an outline of the portions of the drainage area of each storm water outfall that are within the facility boundaries, each existing structural control measure to reduce pollutants in storm water runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under Part I.G.1.d.2.c) have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations, vehicle and equipment maintenance and/or cleaning areas, loading/unloading areas, locations used for the treatment, storage or disposal of wastes and waste waters, locations used for the treatment, filtration, or storage of water supplies, liquid storage tanks, processing areas, and storage areas. The map must indicate the outfall locations and the types of discharges contained in the drainage areas of the outfalls; and for each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow, and an identification of the types of pollutants that are likely to be present in storm water discharges associated with industrial activity. Factors to consider include the toxicity of chemical; quantity of chemicals used, produced or discharged; the likelihood of contact with storm water; and history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified;

b) *Inventory of Exposed Materials.* An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of 3-years prior to the date of submission of an application to be covered under this permit and the present; method and location of onsite storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff between the time of 3-years prior to the date of the submission of an application to be covered under this permit and the present; the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives;

c) *Spills and Leaks.* A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility within the 3-year period immediately prior to the date of submission of an application to be covered under this permit. Such list shall be updated as appropriate during the term of the permit;

d) *Sampling Data.* A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility, including a summary of sampling data collected during the term of this permit; and

e) *Risk Identification and Summary of Potential Pollutant Sources.* A narrative description of the potential pollutant sources from the following activities: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and onsite waste disposal practices, and wastewater treatment activities to include sludge drying, storage, application or disposal activities. The description shall specifically list any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g., biochemical oxygen demand, total suspended solids, etc.) of concern shall be identified.

3) *Measures and Controls.* The facility covered by this permit shall develop a description of storm water management controls appropriate for the facility and implement such controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls.

a) *Good Housekeeping*. Good housekeeping requires the clean and orderly maintenance of areas that may contribute pollutants to storm water discharges. The plan shall describe procedures performed to minimize contact of materials with storm water runoff. Particular attention should be paid to areas where raw materials are stockpiled, material handling areas, storage areas, liquid storage tanks, material handling areas, and loading/unloading areas.

(1) *Fugitive Dust Emissions.* The plan must describe measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize offsite tracking of coal dust. To prevent offsite tracking the facility may consider specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.

(2) *Delivery Vehicles.* The plan must describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee should consider the following:
   i. Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and
   ii. Develop procedures to deal with leakage or spillage from vehicles or containers, and ensure that proper protective measures are available for personnel and environment.

(3) *Fuel Oil Unloading Areas.* The plan must describe measures that prevent or minimize contamination of storm water runoff from fuel oil unloading areas. At a minimum the permittee must consider using the following measures, or an equivalent:
   i. Use containment curbs in unloading areas;

ii. During deliveries station personnel familiar with spill prevention and response procedures must be present to ensure that any leaks or spills are immediately contained and cleaned up; and
iii. Use spill and overflow protection (drip pans, drip diapers, and/or other containment devices shall be placed beneath fuel oil connectors to contain any spillage that may occur during deliveries or due to leaks at such connectors).

(4) *Chemical Loading/Unloading Areas.* The plan must describe measures that prevent or minimize the contamination of storm water runoff from chemical loading/unloading areas. Where practicable, chemical loading/unloading areas should be covered, and chemicals should be stored indoors. At a minimum the permittee must consider using the following measures or an equivalent:
i. Use containment curbs at chemical loading/unloading areas to contain spills; and
ii. During deliveries station personnel familiar with spill prevention and response procedures must be present to ensure that any leaks or spills are immediately contained and cleaned up.

(5) *Miscellaneous Loading/Unloading Areas.* The plan must describe measures that prevent or minimizes the contamination of storm water runoff from loading and unloading areas. The plan may consider covering the loading area, minimizing storm water runon to the loading area by grading, berming, or curbing the area around the loading area to direct storm water away from the area, or locate the loading/unloading equipment and vehicles so that leaks can be contained in existing containment and flow diversion systems.

(6) *Liquid Storage Tanks.* The plan must describe measures that prevent or minimize contamination of storm water runoff from above ground liquid storage tanks. At a minimum the permittee must consider employing the following measures or an equivalent:
i. Use protective guards around tanks;
ii. Use containment curbs;
iii. Use spill and overflow protection (drip pans, drip diapers, and/or other containment devices shall be placed beneath chemical connectors to contain any spillage that may occur during deliveries or due to leaks at such connectors); and
iv. Use dry cleanup methods.

(7) *Large Bulk Fuel Storage Tanks.* The plan must describe measures that prevent or minimize contamination of storm water runoff from liquid storage tanks. At a minimum the permittee must consider employing the following measures, or an equivalent:
i. Comply with applicable State and Federal laws, including Spill Prevention Control and Countermeasures (SPCC); and
ii. Containment berms.

(8) The plan must describe measures to reduce the potential for an oil spill, or a chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all above ground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(9) *Oil Bearing Equipment in Switchyards.* The plan must describe measures to reduce the potential for storm water contamination from oil bearing equipment in switchyard areas. The permittee may consider level grades and gravel surfaces to retard flows and limit the spread of spills; collection of storm water runoff in perimeter ditches.

(10) *Residue Hauling Vehicles.* All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the body or container. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds must be repaired as soon as practicable.

(11) *Ash Loading Areas.* Plant procedures shall be established to reduce and/or control the tracking of ash or residue from ash loading areas for example, where practicable, requirements to clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water.

(12) *Areas Adjacent to Disposal Ponds or Landfills.* The plan must describe measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee must develop procedures to:
   i. Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and
   ii. Reduce ash residue on exit roads leading into and out of residue handling areas.

(13) *Landfills, Scrapyards, Surface Impoundments, Open Dumps, and General Refuse Sites.* The plan must address landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(14) *Maintenance Activities.* For vehicle maintenance activities performed on the plant site, the plan must describe measures that prevent or minimize contamination of the storm water runoff from all areas used for vehicle and equipment maintenance. The permittee shall consider performing all maintenance activities indoors, using drip pans, maintaining an organized inventory of materials used in the shop, draining all parts of fluids prior to disposal, prohibiting wet clean up practices where the practices would result in the discharge of pollutants to storm water drainage systems, using dry cleanup methods, collecting the storm water runoff from the maintenance area and providing treatment or recycling, minimizing runon/runoff of storm water areas or other equivalent measures.

(15) *Material Storage Areas.* The plan must describe measures that prevent or minimize contamination of storm water from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay down areas). The permittee may consider flat yard grades, runoff collection in graded swales or ditches, erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins), covering lay down areas, storing the materials indoors, covering the material with a temporary covering made of polyethylene, polyurethane, polypropylene, or hypalon. Storm water runon may be minimized by constructing an enclosure or building a berm around the area.

b) *Preventive Maintenance.* A preventive maintenance program shall involve: timely inspection and maintenance of storm water management devices (e.g., cleaning oil/water separators, catch basins); inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures which could result in discharges

of pollutants to surface waters; and appropriate maintenance of such equipment and systems.

c) *Spill Prevention and Response Procedures.* Areas where potential spills that can contribute pollutants to storm water discharges can occur, and their accompanying drainage points, shall be identified clearly in the storm water pollution prevention plan. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to personnel.

d) *Inspections.* Facility personnel who are familiar with the industrial activity, the BMPs and the storm water pollution prevention plan shall be identified to inspect designated equipment and areas of the facility. The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained.

e) *Employee Training.* Employee training programs shall inform personnel responsible for implementing activities identified in the storm water pollution prevention plan or otherwise responsible for storm water management at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. The pollution prevention plan shall identify periodic dates for such training.

f) *Recordkeeping and Internal Reporting Procedures.* A description of incidents (such as spills, or other discharges), along with other information describing the quality and quantity of storm water discharges shall be included in the plan. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.

g) *Sediment and Erosion Control.* The plan shall identify areas that, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.

h) *Management of Runoff.* The plan shall contain a narrative consideration of the appropriateness of traditional storm water management practices (practices other than those that control the generation or source(s) of pollutants) used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The plan shall provide that measures that the permittee determines to be reasonable and appropriate shall be implemented and maintained. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices; reuse of collected storm water (such as for a process or as an irrigation source); inlet controls (such as oil/water separators); snow management activities; infiltration devices and wet detention/retention devices; or other equivalent measures.

4) *Comprehensive Site Compliance Evaluation.* Personnel who are familiar with the industrial activity, the BMPs and the storm water pollution prevention plan shall conduct site compliance

evaluations at appropriate intervals specified in the plan, but in no case less than once a year. Such evaluations shall include the following:

a) Areas contributing to a storm water discharge associated with industrial activity such as material storage, handling, and disposal activities shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made;

b) Based on the results of the evaluation, the description of potential pollutant sources identified in the plan in accordance with Part I.G.1.d.(2) and pollution prevention measures and controls identified in the plan in accordance with Part I.G.1.d.(3) shall be revised as appropriate within 2 weeks of such evaluation and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than 12 weeks after the evaluation;

c) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with Part I.G.1.d.4(b) shall be made and retained as part of the storm water pollution prevention plan for at least 3-years from the date of the evaluation. The report shall identify any incidents of noncompliance. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the storm water pollution prevention plan and this permit. The report shall be signed in accordance with Part II.K.; and

d) Where compliance evaluation schedules overlap with inspections required under Part I.G.1.d.3(d), the compliance evaluation may be conducted in place of one such inspection.

2. General Storm Water Conditions

a. **Quarterly Visual Examination of Storm Water Quality.** Unless another more frequent schedule is established elsewhere within this permit, the permittee shall perform and document a visual examination of a storm water discharge associated with industrial activity from each of the three representative outfalls. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December.

1) Examination shall be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. The examination shall document observations of color, odor, clarity, floating solids, settle solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well-lit area. No analytical tests are required to be performed on samples. All such samples shall e collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previous measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted.

Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term.

2) Visual examination reports must be maintained onsite with the pollution prevention plan. The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snowmelt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settle solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution) and probable sources of any observed storm water contamination.

3) When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may collect a sample of effluent of one of such outfalls and report that the examination data also applies to the substantially identical outfall(s) provided that the permittee includes in the storm water pollution prevention plan a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40-65 percent), or high (above 65 percent) shall be provided in the plan.

4) When the permittee is unable to conduct the visual examination due to adverse climatic conditions, the permittee must document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

b. **Prohibition of Non-storm Water Discharges.** Except as provided in this paragraph or elsewhere in this permit, all storm water discharges covered by this permit shall be composed entirely of storm water. The following non-storm water discharges are authorized by this permit provided the non-storm water component of the discharge is in compliance with this permit: discharges from fire fighting activities; fire hydrant flushings; potable water sources including waterline flushings; uncontaminated compressor condensate; irrigation drainage; lawn watering; routine external building wash down that does not use detergents or other compounds; pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; uncontaminated springs; uncontaminated ground water; foundation or footing drains where flows are not contaminated with process materials such as solvents; incidental windblown mist from cooling towers; and demineralized water from storage tanks.

All other non-storm water discharges must be addressed within and in compliance with this VPDES permit.

c. **Releases of Hazardous Substances or Oil in Excess of Reportable Quantities.** The discharge of hazardous substances or oil in the storm water discharge(s) from a facility shall be prevented or minimized in accordance with the applicable storm water pollution prevention plan for the facility. This permit does not authorize the discharge of hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110 (1998), 40 CFR Part 117 (1998) or 40 CFR Part 302 (1998) occurs during a 24-hour period, the permittee is required to notify the DEQ-NVRO in accordance with the requirements of Part II, G. of this permit as soon as he or she has knowledge of the discharge. In addition, the storm water pollution prevention plan required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate. This permit does not relieve the permittee of the reporting requirements of 40 CFR Part 110 (1998), 40 CFR Part 117 (1998), and 40 CFR Part 302 (1998) or §62.1-44.34:19 of the Code of Virginia.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records

1. Records of monitoring information shall include:
   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) and time(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Department of Environmental Quality - Northern Regional Office (DEQ-NRO)
   13901 Crown Court
   Woodbridge, VA 22193

   Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

2. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

3. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information.

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from this discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges.

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II.F.; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II.F., shall notify the Department and the Maryland Department of the Environment (MDE) of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department and MDE, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department and MDE under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges.

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department and MDE by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:
   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I. if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II, I.1.or I.2., in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II, G., H. and I. may be made to the Department's Northern Virginia Regional Office at (703) 583-3800 (voice) or (703) 583-3841 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

The Maryland Department of the Environment shall be contacted by telephone at (410) 537-3510 during work hours or at (866) 633-4686 during evenings, weekends, and holidays. Written reports to the Maryland Department of the Environment should be sent to: WMA - Compliance Program Maryland Department of the Environment, 1800 Washington Boulevard, STE-425,Baltimore, MD 21230-1708.

J. Notice of Planned Changes.

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

      1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
      2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements.

1. All permit applications shall be signed as follows:

   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
      1) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or

      2) The manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

   b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

   c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes:

      1) The chief executive officer of the agency, or
      2) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part II.K.1.;

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

   c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II.K.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2. shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II, K.1. or K.2. shall make the following certification:

   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply.

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit.

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law.

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U.), and "upset" (Part II.V.) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of solids or sludges.

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II, U.2. and U.3.

2. Notice
   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.

3. Prohibition of bypass.
   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
      1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
      3) The permittee submitted notices as required under Part II.U.2.

   b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset.

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2. are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   a. An upset occurred and that the permittee can identify the cause(s) of the upset;
   b. The permitted facility was at the time being properly operated;
   c. The permittee submitted notice of the upset as required in Part II.I.; and
   d. The permittee complied with any remedial measures required under Part II.S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. **Inspection and Entry**

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions.

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2., a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II.Y.1., this permit may be automatically transferred to a new permittee if:
   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

WATER QUALITY MONITORING
ATTACHMENT A, PAGE 1 of 6

Facility Name: Virginia Power - Possum Point

VPDES Permit: VA0002071
Outfall 004

CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (µg/L)	Reporting Result [1] (µg/L)	Sample Type[2]	Sample Frequency[3]
DISSOLVED METALS						
7440-36-0	Antimony	(4)			G	1/YR
7440-38-2	Arsenic	(4)			G	1/YR
7440-43-9	Cadmium	(4)			G	1/YR
16065-83-1	Chromium III	(4)			G	1/YR
18540-29-9	Chromium VI	(4)			G	1/YR
7440-50-8	Copper	(4)			G	1/YR
7439-92-1	Lead	(4)			G	1/YR
7439-97-6	Mercury	(4)			G	1/YR
7440-02-0	Nickel	(4)			G	1/YR
7782-49-2	Selenium	(4)			G	1/YR
7440-22-4	Silver	(4)			G	1/YR
7440-28-0	Thallium	(4)			G	1/YR
7440-66-6	Zinc	(4)			G	1/YR
PESTICIDES/PCBs						
309-00-2	Aldrin	608	0.05		G or C	1/YR
57-74-9	Chlordane	608	0.2		G or C	1/YR
2921-88-2	Chlorpyrifos (Dursban)	622	(6)		G or C	1/YR
72-54-8	DDD	608	0.1		G or C	1/YR
72-55-9	DDE	608	0.1		G or C	1/YR
50-29-3	DDT	608	0.1		G or C	1/YR
8065-48-3	Demeton	(5)	(6)		G or C	1/YR
60-57-1	Dieldrin	608	0.1		G or C	1/YR
959-98-8	Alpha-Endosulfan	608	0.1		G or C	1/YR
33213-65-9	Beta-Endosulfan	608	0.1		G or C	1/YR
1031-07-8	Endosulfan Sulfate	608	0.1		G or C	1/YR
72-20-8	Endrin	608	0.1		G or C	1/YR
7421-93-4	Endrin Aldehyde	608	0.1		G or C	1/YR
86-50-0	Guthion	622	(6)		G or C	1/YR
76-44-8	Heptachlor	608	0.05		G or C	1/YR
1024-57-3	Heptachlor Epoxide	608	0.05		G or C	1/YR
58-89-9	Hexachlorocyclohexane (Lindane)	608	0.05		G or C	1/YR

WATER QUALITY MONITORING
ATTACHMENT A, PAGE 2 of 6

Facility Name: Virginia Power - Possum Point **VPDES Permit: VA0002071**
Outfall 004

CAS Number	Parameter	EPA Analysis No.	Quantification Level(1) (µg/L)	Reporting Result (1) (µg/L)	Sample Type(2)	Sample Frequency(3)
319-84-6	Hexachlorocyclohexane/Alpha -BHC	608	0.05		G or C	1/YR
319-85-7	Hexachlorocyclohexane/Beta-BHC	608	0.05		G or C	1/YR
143-50-0	Kepone	(5)	(6)		G or C	1/YR
121-75-5	Malathion	(5)	(6)		G or C	1/YR
72-43-5	Methoxychlor	(5)	(6)		G or C	1/YR
2385-85-5	Mirex	(5)	(6)		G or C	1/YR
56-38-2	Parathion	(5)	(6)		G or C	1/YR
53469-21-9	PCB-1242	608	1.0		G or C	1/YR
11097-69-1	PCB-1254	608	1.0		G or C	1/YR
11104-28-2	PCB-1221	608	1.0		G or C	1/YR
11141-16-5	PCB-1232	608	1.0		G or C	1/YR
12672-29-6	PCB-1248	608	1.0		G or C	1/YR
11096-82-5	PCB-1260	608	1.0		G or C	1/YR
12674-11-2	PCB-1016	608	1.0		G or C	1/YR
1336-36-3	PCB Total	608	1.0		G or C	1/YR
8001-35-2	Toxaphene	608	5.0		G or C	1/YR
BASE NEUTRAL EXTRACTABLES						
83-32-9	Acenaphthene	625	10.0		G or C	1/YR
120-12-7	Anthracene	625	10.0		G or C	1/YR
92-87-5	Benzidine	(5)	(6)		G or C	1/YR
56-55-3	Benzo(a) anthracene	625	10.0		G or C	1/YR
205-99-2	Benzo(b) fluoranthene	625	10.0		G or C	1/YR
207-08-9	Benzo(k) fluoranthene	625	10.0		G or C	1/YR
50-32-8	Benzo(a)pyrene	625	10.0		G or C	1/YR
111-44-4	Bis(2-chloroethyl) ether	(5)	(6)		G or C	1/YR
39638-32-9	Bis(2-chloroisopropyl) ether	625	10.0		G or C	1/YR
85-68-7	Butyl benzyl phthalate	625	10.0		G or C	1/YR
91-58-7	2-Chloronaphthalene	625	20.0		G or C	1/YR
218-01-9	Chrysene	625	10.0		G or C	1/YR
53-70-3	Dibenz(a,h) anthracene	625	20.0		G or C	1/YR
84-74-2	Dibutyl phthalate (Di-n-Butyl Phthalate)	625	10.0		G or C	1/YR
95-50-1	1,2-Dichlorobenzene	625	10.0		G or C	1/YR

WATER QUALITY MONITORING
ATTACHMENT A, PAGE 3 of 6

Facility Name: Virginia Power - Possum Point **VPDES Permit: VA0002071**
Outfall 004

CAS Number	Parameter	EPA Analysis No.	Quantification Level(1) (µg/L)	Reporting Result (1) (µg/L)	Sample Type(2)	Sample Frequency(3)
541-73-1	1,3-Dichlorobenzene	625	10.0		G or C	1/YR
106-46-7	1,4-Dichlorobenzene	625	10.0		G or C	1/YR
91-94-1	3,3 Dichlorobenzidene	(5)	(6)		G or C	1/YR
84-66-2	Diethyl phthalate	625	10.0		G or C	1/YR
117-81-7	Di-2-Ethylhexyl Phthalate	625	10.0		G or C	1/YR
131-11-3	Dimethyl Phthalate	625	20.0		G or C	1/YR
121-14-2	2,4-Dinitrotoluene	625	10.0		G or C	1/YR
206-44-0	Fluoranthene	625	10.0		G or C	1/YR
86-73-7	Fluorene	625	10.0		G or C	1/YR
118-74-1	Hexachlorobenzene	(5)	(6)		G or C	1/YR
87-68-3	Hexachlorobutadiene	(5)	(6)		G or C	1/YR
77-47-4	Hexachlorocyclopentadiene	625	10.0		G or C	1/YR
67-72-1	Hexachloroethane	625	10.0		G or C	1/YR
193-39-5	Indeno(1,2,3-cd) pyrene	625	20.0		G or C	1/YR
78-59-1	Isophorone	625	10.0		G or C	1/YR
91-20-3	Naphthalene	625	10.0		G or C	1/YR
98-95-3	Nitrobenzene	625	10.0		G or C	1/YR
62-75-9	N-Nitrosodimethylamine	(5)	(6)		G or C	1/YR
86-30-6	N-Nitrosodiphenylamine	625	10.0		G or C	1/YR
621-64-7	N-Nitrosodi-n-propylamine	(5)	(6)		G or C	1/YR
129-00-0	Pyrene	625	10.0		G or C	1/YR
120-82-1	1,2,4 Trichlorobenzene	625	10.0		G or C	1/YR
VOLATILES						
107-02-8	Acrolein	624	10.0		G	1/YR
107-13-1	Acrylonitrile	(5)	(6)		G	1/YR
71-43-2	Benzene	624	10.0		G	1/YR
75-25-2	Bromoform	624	10.0		G	1/YR
56-23-5	Carbon Tetrachloride	624	10.0		G	1/YR
108-90-7	Chlorobenzene (Monochlorobenzene)	624	50.0		G	1/YR
124-48-1	Chlorodibromomethane	624	10.0		G	1/YR
67-66-3	Chloroform	624	10.0		G	1/YR
75-09-2	Dichloromethane	624	20.0		G	1/YR
75-27-4	Dichlorobromomethane	624	20.0		G	1/YR

WATER QUALITY MONITORING
ATTACHMENT A, PAGE 4 of 6

Facility Name: Virginia Power - Possum Point

VPDES Permit: VA0002071
Outfall 004

CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (µg/L)	Reporting Result [1] (µg/L)	Sample Type[2]	Sample Frequency[3]
107-06-2	1,2-Dichloroethane	624	10.0		G	1/YR
75-35-4	1,1-Dichloroethylene	624	10.0		G	1/YR
156-60-5	1,2-trans-Dichloroethylene	624	10.0		G	1/YR
78-87-5	1,2-Dichloropropane	(5)	(6)		G	1/YR
542-75-6	1,3-Dichloropropene	(5)	(6)		G	1/YR
100-41-4	Ethylbenzene	624	10.0		G	1/YR
74-83-9	Methyl Bromide	624	10.0		G	1/YR
79-34-5	1,1,2,2,-Tetrachloroethane	(5)	(6)		G	1/YR
127-18-4	Tetrachloroethylene	624	10.0		G	1/YR
10-88-3	Toluene	624	10.0		G	1/YR
79-00-5	1,1,2-Trichloroethane	(5)	(6)		G	1/YR
79-01-6	Trichloroethylene	624	10.0		G	1/YR
75-01-4	Vinyl Chloride	624	10.0		G	1/YR
ACID EXTRACTABLES						
95-57-8	2-Chlorophenol	625	10.0		G or C	1/YR
120-83-2	2,4 Dichlorophenol	625	10.0		G or C	1/YR
105-67-9	2,4 Dimethylphenol	625	10.0		G or C	1/YR
51-28-5	2,4 Dinitrophenol	625	10.0		G or C	1/YR
534-52-1	2-Methyl-4,6-Dinitrophenol	625	10.0		G or C	1/YR
87-86-5	Pentachlorophenol	625	50.0		G or C	1/YR
108-95-2	Phenol[8]	625	10.0		G or C	1/YR
88-06-2	2,4,6-Trichlorophenol	625	10.0		G or C	1/YR
RADIONUCLIDES						
	Gross Alpha Particle Activity	(5)	(6)		G or C	1/YR
	Beta Particle &Photon Activity	(5)	(6)		G or C	1/YR
	Strontium 90	(5)	(6)		G or C	1/YR
	Tritium	(5)	(6)		G or C	1/YR
MISCELLANEOUS						
16887-00-6	Chlorides (mg/L)	(5)	(6)	mg/L	G	1/YR
7782-50-5	Chlorine, Total Residual	(5)	100		G	1/YR
57-12-5	Cyanide	335.2	10.0		G	1/YR
122-66-7	1,2-Diphenylhydrazine	(5)	0.1		G	1/YR

WATER QUALITY MONITORING
ATTACHMENT A, PAGE 5 of 6

Facility Name: Virginia Power - Possum Point

VPDES Permit: VA0002071
Outfall 004

CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (µg/L)	Reporting Result [1] (µg/L)	Sample Type[2]	Sample Frequency[3]
N/A	Enterococcus (N/CML)	(5)	(6)	N/CML	G	1/YR
	Hardness (as mg/L $CaCO_3$)	(5)	(6)	mg/L	G	1/YR
7783-06-4	Hydrogen Sulfide	(5)	(6)		G	1/YR
60-10-5	Tributyltin[8]	NBSR 85-3295	(6)		G	1/YR
	Xylenes (total)	SW 846 Method 8021B	(6)		G	1/YR

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment A

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (Φg/L) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<[QL]" on the Attachment A form, where the actual test method QL shall be substituted for "[QL]".

(2) Sample Type

G = Grab = An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported.

C = Composite = A 24-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period. For composite metals samples, the individual sample aliquots shall be filtered and preserved immediately upon collection and prior to compositing.

(3) Frequency

1/5 YR = once after the start of the third year from the permit's effective date but 180 days prior to permit expiration.
X = no monitoring required

(4) A specific analytical method is not specified. An appropriate method shall be selected from the following list of EPA methods (or any approved method presented in 40 CFR Part 136) which will achieve the listed a quantification level. If the test result is less than the specified QL, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

Metal	Analytical Methods
Antimony	1639; 1638
Arsenic**	1632
Cadmium	1638; 1639; 1637; 1640
Chromium*	1639
Chromium VI	1636
Copper	1638; 1640
Lead	1638; 1637; 1640
Mercury	1631
Nickel	1639; 1638; 1640
Selenium	1638; 1639
Silver	1638
Zinc	1638; 1639.

- Chromium III is measured by the total chromium analysis. If the result of the total chromium analysis is less than or equal to the QL (or specific target value), the result for chromium III can be reported as less than QL.

(5) Any approved method presented in 40 CFR Part 136.

(6) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

(7) Requires continuous extraction.

(8) DEQ's approved analysis for TBT may also be used. (See A Manual for the Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science dated November 1996.)

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/l)	Reporting Results [1] (mg/l)	Sample Type[2]	Threshold Levels (mg/l)
Toxicity Characteristic Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311			G	5.0
151	7440-39-3	Barium	1311			G	100.0
216	71-43-2	Benzene	1311			G	3.0
096	7440-43-9	Cadmium	1311			G	1.0
236	56-23-5	Carbon Tetrachloride	1311			G	0.5
333	57-74-9	Chlordane	1311			G	0.03
280	108-90-7	Chlorobenzene	1311			G	100.0
223	67-66-3	Chloroform	1311			G	6.0
016	7440-47-3	Chromium	1311			G	5.0
510	95-48-7	o-Cresol *	1311			G	200.0
509	108-39-4	m-Cresol *	1311			G	200.0
511	106-44-5	p-Cresol *	1311			G	200.0
512		Cresols, Total	1311			G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311			G	7.5
260	107-06-2	1,2-Dichloroethane	1311			G	0.5
258	75-35-4	1,1-Dichloroethylene	1311			G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311			G	0.13
339	72-20-8	Endrin	1311			G	0.02
341	76-44-8	Heptachlor	1311			G	0.008
289	118-74-1	Hexachlorobenzene	1311			G	0.13
290	87-68-3	Hexachlorobutadiene	1311			G	0.5
291	67-72-1	Hexachloroethane	1311			G	5.0
034	7439-92-1	Lead	1311			G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311			G	0.4
042	7439-97-6	Mercury	1311			G	0.2
344	72-43-5	Methoxychlor	1311			G	10.0
	78-93-3	Methyl Ethyl Ketone	1311			G	200.0
294	98-95-3	Nitrobenzene	1311			G	2.0
210	87-86-5	Pentachlorophenol	1311			G	100.0
	110-86-1	Pyridine	1311			G	5.0
152	7782-49-2	Selenium	1311			G	1.0
037	7440-22-4	Silver	1311			G	5.0
220	127-18-4	Tetrachloroethylene	1311			G	0.7
349	8001-35-2	Toxaphene	1311			G	0.5
602	79-01-6	Trichloroethylene	1311			G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311			G	400
602	88-06-2	2,4,6-Trichlorophenol	1311			G	2.0
173	75-01-4	Vinyl Chloride	1311			G	0.2

* If o-, m- and p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/kg)	Reporting Results[1] (mg/kg)	Sample Type[2]
Metals (Part B.1.)						
178	7429-90-5	Antimony	(3)	(4)		G
457		Arsenic III	(3)	(4)		G
441	16055-83-1	Chromium III	(3)	(4)		G
231	18540-29-9	Chromium VI	(3)	(4)		G
442	744-50-8	Copper	(3)	(4)		G
445	7440-02-0	Nickel	(3)	(4)		G
	7440-28-0	Thallium	(3)	(4)		G
448	7440-66-6	Zinc	(3)	(4)		G
Pesticides/PCB'S (Part B.2.)						
332	309-00-2	Aldrin	(3)	(4)		G
334		Chlorpyrifos Dursban	(3)	(4)		G
--	72-54-8	DDD	(3)	(4)		G
--	72-55-9	DDE	(3)	(4)		G
335	50-29-3	DDT	(3)	(4)		G
336	8065-48-3	Demeton	(3)	(4)		G
337	60-57-1	Dieldrin	(3)	(4)		G
746	959-98-8	Alpha-Endosulfan	(3)	(4)		G
640	33213-65-9	Alpha-Endosulfan	(3)	(4)		G
617	1031-07-8	Endosulfan Sulfate	(3)	(4)		G
--	7421-93-4	Endrin Aldehyde	(3)	(4)		G
340	86-50-0	Guthion	(3)	(4)		G
--	1024-57-3	Heptachlor Epoxide	(3)	(4)		G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	(3)	(4)		G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	(3)	(4)		G
--	143-50-0	Kepone	(3)	(4)		G
343	121-75-5	Malathion	(3)	(4)		G
345	2385-85-5	Mirex	(3)	(4)		G
346	56-38-2	Parathion	(3)	(4)		G
--	1336-36-3	Total PCB	(3)	(4)		G
641	53469-21-9	PCB-1242	(3)	(4)		G
642	11097-69-1	PCB-1254	(3)	(4)		G
643	11104-28-2	PCB-1221	(3)	(4)		G
644	11141-16-5	PCB-1232	(3)	(4)		G
645	12672-29-6	PCB-1248	(3)	(4)		G
618	11096-82-5	PCB-1260	(3)	(4)		G
646	12674-11-2	PCB-1016	(3)	(4)		G
Base Neutral Extractable (Part B.3.)						
273	208-96-8	Acenaphthene	(3)	(4)		G
275	120-12-7	Anthracene	(3)	(4)		G
--	92-87-5	Benzidine	(3)	(4)		G
276	56-55-3	Benzo(a) anthracene	(3)	(4)		G

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/kg)	Reporting Results[1] (mg/kg)	Sample Type[2]
648	50-32-8	Benzo(b) fluoranthene (3,4-Bensofluoranthene)	(3)	(4)		G
278	207-08-9	Benzo(k) fluoranthene	(3)	(4)		G
277	50-32-8	Benzo(a)pyrene	(3)	(4)		G
--	111-44-4	Bis 2-Chloroethyl Ether	(3)	(4)		G
279	102-60-1	Bis 2-Chloroiso-Propyl Ether	(3)	(4)		G
486	85-68-7	Butyl benzyl phthalate	(3)	(4)		G
--	91-58-7	2-Chloronaphthalene	(3)	(4)		G
282	218-01-9	Chrysene	(3)	(4)		G
654	53-70-3	Dibenz(a,h) anthracene	(3)	(4)		G
206	84-74-2	Dibutyl phthalate	(3)	(4)		G
259	95-50-1	1,2-Dichlorobenzene	(3)	(4)		G
264	541-73-1	1,3-Dichlorobenzene	(3)	(4)		G
527	91-94-1	3,3-Dichlorobenzidine	(3)	(4)		G
285	84-66-2	Diethyl phthalate	(3)	(4)		G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethylhexyl) Phthalate)	(3)	(4)		G
286	131-11-3	Dimethyl Phthalate	(3)	(4)		G
535	122-66-7	1,2-Dihenylhydrazine	(3)	(4)		G
287	206-44-0	Fluoranthene	(3)	(4)		G
288	86-73-7	Fluorene	(3)	(4)		G
538	77-47-4	Hexachlorocyclopentadiene	(3)	(4)		G
651	193-39-5	Indeno(1,2,3-cd) pyrene	(3)	(4)		G
650	78-59-1	Isophorone	(3)	(4)		G
293	91-20-3	Naphthalene	(3)	(4)		G
573	62-75-9	N-Nitrosodimethylamine	(3)	(4)		G
574	86-30-6	N-Nitrosodiphenylamine	(3)	(4)		G
575	621-64-7	N-Nitrosodi-n-proplyamine	(3)	(4)		G
296	129-00-0	Pyrene	(3)	(4)		G
263	129-82-1	1,2,4 Trichlorobenzene	(3)	(4)		G
Volatiles (Part B.4.)						
171	107-02-8	Acrolein	(3)	(4)		G
204	107-13-1	Acrylonitrile (Vinyl cyanide)	(3)	(4)		G
484	75-25-2	Bromoform	(3)	(4)		G
652	124-48-1	Chlorodibromomethane	(3)	(4)		G
649	75-09-2	Dichloromethane (Methylene chloride)	(3)	(4)		G
244	75-27-4	Dichlorobromomethane	(3)	(4)		G
262	156-60-5	Trans 1,2-Dichloroethylene	(3)	(4)		G
261	78-87-5	1,2-Dichloropropane	(3)	(4)		G
265	542-75-6	1,3-Dichloropropene (1,3-Dichlorpropylene)	(3)	(4)		G
172	100-41-4	Ethylbenzene	(3)	(4)		G
--	74-83-9	Methyl Bromide	(3)	(4)		G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	(3)	(4)		G
596	79-34-5	1,1,2,2-Tetrachloroethane	(3)	(4)		G

DEPARTMENT OF ENVIRONMENTAL QUALITY

Dredge Spoils Monitoring

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/kg)	Reporting Results[1] (mg/kg)	Sample Type[2]
222	108-88-3	Toluene	[3]	[4]		G
373	79-00-5	1,1,2-Trichloroethane	[3]	[4]		G
155	79-01-6	Trichloroethylene	[3]	[4]		G
Acids Extratables (Part B.5.)						
267	95-57-8	2-Chlorophenol	[3]	[4]		G
268	120-83-2	2,4 Dichlorophenol	[3]	[4]		G
269	105-67-9	2,4 Dimethylphenol	[3]	[4]		G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	[3]	[4]		G
270	51-28-5	2,4-Dinitrophenol	[3]	[4]		G
175	108-95-2	Phenol	[3]	[4]		G
Miscellaneous (Part B.6.)						
018		Cyanide, Total	[3]	[4]		G
350		Tributyltin	[3]	[4]		G
257		TPH (Total Petroleum Hydrocarbons)	[3]	[4]		G

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.
Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilograms (mg/kg) unless otherwise specified.
Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<[QL]" on the Attachment B form, where the actual test method QL shall be substituted for "[QL]".

(2) Sample Type:
G = Grab - An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported.

(3) Any approved method presented in 40 CFR Part 136.

(4) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
SOUTHWEST REGIONAL OFFICE
355-A Deadmore Street, Abingdon, Virginia 24210
Phone (276) 676-4800 Fax (276) 676-4899
www.deq.virginia.gov

Douglas W. Domenech
Secretary of Natural Resources

David K. Paylor
Director

Allen J. Newman, P.E.
Regional Director

August 30, 2013

C.D. Holley, Vice President
Fossil and Hydro Operations
Dominion Virginia Power
5000 Dominion Boulevard
Glen Allen, VA 23060

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

ATTN: Geoffrey A. Hensley, Environmental Supervisor (geoffrey.a.hensley@dom.com)

Re: VPDES Permit No. VA0092746; Dominion Virginia Power - Virginia City Hybrid Energy Center; 3425 Russell Creek Road; St. Paul, VA, Wise County

The VPDES permit for the Virginia City Hybrid Energy Center is enclosed. The first Discharge Monitoring Report (DMR) required by this permit for the monthly monitored parameters is due on October 10, 2013 for the month of September. The first DMR required by this permit for the quarterly monitored parameters is due on January 10, 2014 for the 4th quarter period (i.e. October, November and December). Monitoring results on the DMRs should be reported to the same number of significant digits as are included in the permit limit for the parameter.

A printed copy of a DMR report is enclosed; however, the facility should report using the e-DMR system. If you have not already done so, please register for e-DMR participation now in order for the e-DMR application to be processed prior to the first DMR due date for this issuance and to avoid non-compliance with the permit reporting requirements. The following website provides details, and our regional e-DMR administrator Ruby Scott (ruby.scott@deq.virginia.gov) can also assist you:

http://www.deq.virginia.gov/Programs/Water/PermittingCompliance/ElectronicDMRsubmissions.aspx

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under §§ 62.1 - 44.16, 62.1 - 44.17, and 62.1 - 44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in 9VAC25-230-130 (Procedural Rule No. 1 – Petition for formal hearing). In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

Sincerely,

Mark S. Trent
Water Permit Manager

Enclosure:

VPDES Permit No. VA0092746
Discharge Monitoring Reports (001, 103)
"Attachment A" Monitoring Report

cc: Kim Lanterman, Manager, Environmental (Kimberly.Q.Lanterman@dom.com)

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Virginia City Hybrid Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 3425 Russell Creek Road

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0092746	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 08/29/2013

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Southwest Regional Office
355-A Deadmore Street

Abingdon VA 24210

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/DAY	CALC
704 NOAEC - ACUTE 48 HR STAT CERIODAPHNIA DUBIA	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	NOAEC		1/3M	COMP
705 NOAEC - ACUTE 48 HR STAT PIMEPHALES PROMELAS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	NOAEC		1/3M	COMP
720 TUc - CHRONIC 3-BROOD STATRE CERIODAPHNIA DUBIA	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-C		1/3M	COMP
721 TUc - CHRONIC 7-DAY STATRE PIMEPHALES PROMELAS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-C		1/3M	COMP
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Virginia City Hybrid Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 3425 Russell Creek Road

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0092746	103
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 08/29/2013

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Southwest Regional Office
355-A Deadmore Street

Abingdon VA 24210

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			CONT	TIRE
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		1/M	GRAB
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30	100	MG/L		1/M	COMP
023 CHROMIUM, HEXAVALENT (AS CR)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	62	62	UG/L		1/M	COMP
165 CL2, INST RES MAX	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	88	88	UG/L		1/M	COMP
196 ZINC, TOTAL RECOVERABLE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	790	790	UG/L		1/M	COMP
203 COPPER, TOTAL RECOVERABLE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	68	68	UG/L		1/M	COMP
361 IRON, TOTAL RECOVERABLE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1000	1000	UG/L		1/M	COMP

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Virginia City Hybrid Energy Center
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 3425 Russell Creek Road

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0092746	103
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 08/29/2013

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Southwest Regional Office
355-A Deadmore Street

Abingdon VA 24210

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
500 OIL & GREASE	REPORTD	********	********		********						
	REQRMNT	********	********		********	15	20	MG/L		1/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
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ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of $32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluid/tape' is not allowed.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces have a requirement or limitation, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading".
   KG/DAY = Concentration (mg/L) x Flow (MGD) x 3.785 G/D (Grams/Day) = Concentration (mg/L) x Flow (MGD) x 3785
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. For all parameters enter the number of samples which do not comply with the maximum and/or minimum permit requirements in the "reported" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field. Include any Maximum 7-Day Average and Maximum Weekly Average violations in this field. Permittees with continuous pH, or temperature monitoring requirements should consult the permit for what constitutes an exceedance and report accordingly.
7. You are required to sample (at a minimum) according to the Sample Frequencies and Sample Types specified in your permit.
8. Enter the actual frequency of analysis for each parameter (number of times per day, week, month, etc.) in the "reported" space in the column marked "Frequency of Analysis".
9. Enter the actual type of sample (Grab, 8HC, 24HC, etc) collected for each parameter in the "reported" space in the column marked "Sample Type".
10. Enter additional required data or comments in the space marked "additional permit requirements or comments". If additional required data or comments are appended to the DMR, reference appended correspondence in this field.
11. Record the number of bypasses during the month, the total flow in million gallons (MG) and BOD5 in kilograms (KG) in the proper columns in the section marked "Bypasses and Overflows".
12. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator or if the operator in responsible charge of the facility is a licensed operator, the operator's signature and certificate number must be reported in the spaces provided.
13. The principal executive officer then reviews the form and must sign in the space provided and provide a telephone number where he/she can be reached. Every page of the DMR must have an original signature.
14. Send the completed form(s) with original signatures to your Department of Environmental Quality Regional Office by the 10th of each month unless otherwise specified in the permit.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each separate violation by date.
17. If you have any questions, contact the Department of Environmental Quality Regional Office listed on the DMR.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit Number VA0092746

Effective Date: August 30, 2013
Expiration Date: August 29, 2018

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
AND
THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I - Limitations and Monitoring Requirements, and Part II – Conditions Applicable To All VPDES Permits, as set forth herein.

Owner:	Dominion Virginia Power
Facility Name:	Virginia City Hybrid Energy Center
City:	St. Paul
County:	Wise County
Facility Location:	3425 Russell Creek Road, St. Paul, VA

The owner is authorized to discharge to the following receiving stream:

Receiving Stream:	Clinch River
Basin:	Tennessee-Big Sandy River
Subbasin:	Clinch
Section:	2a
Class:	IV
Special Standards:	pws

Regional Director, Department of Environmental Quality

8/30/2013
Date

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number **001** (combined wastewater discharge)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATION				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)*	NL	NA	NA	NL	1/ Day	Calculated
Acute Whole Effluent Toxicity (NOAEC) (*Ceriodaphnia dubia*)	NA	NA	NA	NL	1/3 Months	Composite**
Chronic Whole Effluent Toxicity (TUc) (*Ceriodaphnia dubia*)	NA	NA	NA	NL	1/3 Months	Composite**
Acute Whole Effluent Toxicity ((NOAEC) (*Pimaphales promelas*)	NA	NA	NA	NL	1/3 Months	Composite**
Chronic Whole Effluent Toxicity (TUc) (*Pimaphales promelas*)	NA	NA	NA	NL	1/3 Months	Composite**

NL= No Limitation, monitoring required
NA= Not Applicable

There shall be no discharge of floating solids or visible foam in other than trace amounts.

See Part I.B.11 for additional requirements regarding Whole Effluent Toxicity monitoring requirements.

* The values reported for flow shall be calculated from the daily sum of the discharges from both the Dominion VCHEC facility and from the St. Paul wastewater treatment plant.

** The composite sample required for this reporting shall consist of a composite of subsamples at taken hourly intervals for the duration of the discharge or for a maximum of 24 hours, whichever is less.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from internal outfall serial number **103**. (VCHEC waste water treatment plant discharge)

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATION				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Daily Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	Continuous	Totalizing Indicating & Recording
pH (standard units)	NA	NA	6.0	9.0	1/Month	Grab
Total Suspended Solids	30 mg/l	NA	NA	100 mg/l	1/ Month	Composite*
Total Copper	68 µg/l	NA	NA	68 µg/l	1/Month	Composite*
Total Iron	1000 µg/l	NA	NA	1000 µg/l	1/Month	Composite*
Oil and Grease	15 mg/l	NA	NA	20 mg/l	1/Month	Grab
Chromium VI**	62 µg/l	NA	NA	62 µg/l	1/Month	Composite*
Total Zinc	790 µg/l	NA	NA	790 µg/l	1/Month	Composite*
Total Residual Chlorine	88 µg/l	NA	NA	88 µg/l	1/Month	Grab

NL= No Limitation, monitoring required
NA= Not Applicable

There shall be no discharge of floating solids or visible foam in other than trace amounts.

See Part I.B.7 for additional monitoring and reporting requirements.

* The composite sample required for this reporting shall consist of a composite of subsamples at taken hourly intervals for the duration of the discharge or for a maximum of 24 hours, whichever is less.

** Compliance with the limit for Chromium VI may be demonstrated through monitoring for Total Chromium and assume a one-to-one relationship.

B. OTHER REQUIREMENTS OR SPECIAL CONDITIONS:

1. This permit shall be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard, limitation or prohibition for a pollutant which is promulgated or approved under Section 307(a)(2) of the Clean Water Act, if the effluent standard, limitation, or prohibition so promulgated or approved:

   a. Is more stringent than any effluent limitation on the pollutant already in the permit; or

   b. Controls any pollutant not limited in the permit.

2. There shall be no maintenance chemical additives in the cooling tower blow-down discharges which contain the 126 priority pollutants unless: 1) the permittee can demonstrate compliance with the requirements applicable to the addition of maintenance chemicals to cooling tower discharges as outlined under the Steam Electric Effluent Guidelines (40 CFR Part 423), and 2) the permittee obtains approval from DEQ for the changes in treatment.

3. Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner and consistent with Best Management Practices, so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

4. Within 90 day of the effective date of the permit, the permittee shall develop and maintain an Operations and Maintenance (O&M) Manual for the treatment works that is in accordance with Virginia Pollutant Discharge Elimination System Regulations, 9VAC25-31. The O&M Manual and subsequent revisions shall include the manual effective date and meet Part II.K.2 and Part II.K.4 Signatory Requirements of the permit.

   Any changes in the practices and procedures followed by the permittee shall be documented in the O&M Manual within 90 days of the effective date of the changes. The permittee shall operate the treatment works in accordance with the O&M Manual and shall make the O&M manual available to Department personnel for review during facility inspections. Within 30 days of a request by DEQ, the current O&M Manual shall be submitted to the DEQ Regional Office for review and approval.

   The O&M manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

   a. Permitted outfall locations and techniques to be employed in the collection, preservation, and analysis of effluent, storm water and sludge samples;

   b. Procedures for measuring and recording the duration and volume of treated wastewater discharged;

   c. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants characterized in Part I.B.3 that will prevent these materials from reaching state waters;

   d. Discussion of treatment works design, treatment works operation, routine preventative maintenance of units within the treatment works, critical spare parts inventory and record

keeping;

e. Hours of operation and staffing requirements for the plant to ensure effective operation of the treatment works and maintain permit compliance;

f. List of facility, local and state emergency contacts; and,

g. Procedures for reporting and responding to any spills/overflows/treatment works upsets.

5. The permittee shall notify the Department as soon as they know or have reason to believe:
   a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
      (1) One hundred micrograms per liter (100 ug/l);
      (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
      (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
      (4) The level established by the Board.
   b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
      (1) Five hundred micrograms per liter (500 ug/l);
      (2) One milligram per liter (1 mg/l) for antimony;
      (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
      (4) The level established by the Board.

6. The permittee shall employ or contract at least one wastewater works operator who holds a current wastewater license appropriate for the permitted facility. A **Class II** licensed operator is required for this facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the Board for Waterworks and Wastewater Works Operators. The permittee shall notify the Department in writing whenever the facility is not complying, or has grounds for anticipating they will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

7. The permittee shall comply with the following reporting requirements for all Part I.A monitoring:

   a. **Quantification Levels** -- The quantification levels (QL) shall be less than or equal to the following concentrations:

Effluent Parameter	Quantification Level
TSS	1.0 mg/l
Chlorine	0.10 mg/l
Oil & Grease	5.0 mg/l
Total Recoverable Iron	0.25 mg/l
Total Recoverable Copper	10 ug/l
Chromium	10 ug/l

Zinc 30 ug/l

The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained. The permittee shall use any method in accordance with Part II A of this permit.

b. **Monthly Average** -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above shall be treated as zero. All concentration data equal to or above the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as it is reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above), then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported monthly average concentration is <QL, then report "<QL" for the quantity. Otherwise use the reported concentration data (including the defined zeros) and flow data for each sample day to determine the daily quantity and report the monthly average of the calculated daily quantities.

c. **Daily Maximum** -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above), then the maximum value of the daily averages shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported daily maximum is <QL, then report "<QL" for the quantity. Otherwise use the reported daily average concentrations (including the defined zeros) and corresponding daily flows to determine daily average quantities and report the maximum of the daily average quantities during the reporting month.

d. **Single Datum -** Any single datum required shall be reported as "<QL" if it is less than the QL used in the analysis (QL must be less than or equal to the QL listed in a. above). Otherwise the numerical value shall be reported.

e. **Significant Digits --** The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used by the permittee (i.e., 5 always rounding up or to the nearest even number), the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

8. This permit shall be modified or alternatively revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

9. The permittee shall monitor the effluent at **outfall 103** for the substances noted in Attachment A, "Water Quality Criteria Monitoring" according to the indicated analysis number, quantification level and sample type. The monitoring shall be conducted quarterly in conjunction with the whole effluent toxicity monitoring requirements of Part I.B.11 for the life of the permit, or until at least 10 sets of data results are collected.

   Using Attachment A as the reporting form, the data shall be submitted with the discharge monitoring reports for the quarterly periods in which the monitoring was performed. The due dates for quarterly reporting are January 10, April 10, July 10 and October 10 of each year.

   Monitoring and analysis shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved methods. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures.

10. Should effluent monitoring indicate the need for any water quality based effluent limitation, this permit may be modified, or alternatively revoked and reissued to incorporate appropriate effluent limitations.

11. Whole Effluent Toxicity Monitoring Program:

    a. Biological Monitoring:

       (1). In accordance with the testing and reporting schedule contained in Part I.B.11.b. below, the permittee shall conduct quarterly acute and chronic toxicity tests until there are a minimum of 10 for each test required. **The permittee shall collect composite samples of final effluent from outfall 001 during periods when both VCHEC and the Town of St. Paul are contributing flow to the combined outfall. These tests shall be initiated with composite samples from the combined effluent, but in cases where the VCHEC discharges cease, subsequent samples for the completion of the tests may be obtained from samples of the discharge from the St. Paul wastewater treatment plant.**

       The acute multi-dilution NOAEC tests to use are:

       48 Hour Static Acute test using *Ceriodaphnia dubia*

       48 Hour Static Acute test using *Pimephales promelas*

       These acute tests are to be conducted using 5 geometric dilutions of effluent with a minimum of 4 replicates, with 5 organisms in each. The NOAEC[1] (No Observed Adverse Effect Concentration), as determined by hypothesis testing,

shall be reported on the DMR as a percentage. The LC_{50} should also be determined and noted on the submitted report. Tests in which control survival is less than 90% are not acceptable.

The chronic tests to use are:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*

Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration"(NOEC) for survival and reproduction or growth. Results which cannot be determined i.e., a “less than” NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for DMR reporting. Report the LC_{50} at 48 hours and the IC_{25} with the NOEC’s in the test report.

The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

(2) The test dilutions should be able to determine compliance with the following endpoints:

(a). Acute NOAEC = 100%

(b). Chronic NOEC of $\geq$ 13% equivalent to a TU_c of $\leq$ 7.69

(3) The test data will be statistically evaluated for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of 11.a.1. may be discontinued.

(4). If after evaluating the data, it is determined that no limit is needed, the permittee shall continue acute and chronic toxicity testing (both species) of the outfall annually, as on the reporting schedule in 11.b. All applicable data will be reevaluated for reasonable potential at the end of the permit term.

b. Reporting Schedule:

The permittee shall report the results on the DMR and supply a copy of the toxicity test reports specified in this Whole Effluent Toxicity Monitoring Program in accordance with the following schedule:

Compliance Periods	DMR/Report Submission Dates
Quarter 1 (October – December)	January 10, 2014
Quarter 2 (January – March)	April 10, 2014
Quarter 3 (April – June)	July 10, 2014
Quarter 4 (July – September)	October 10, 2014
Quarter 5 (October – December)	January 10, 2015
Quarter 6 (January – March)	April 10, 2015
Quarter 7 (April – June)	July 10, 2015
Quarter 8 (July – September)	October 10, 2015
Quarter 9 (October – December)	January 10, 2016
Quarter 10 (January – March)	April 10, 2016
Annual 1 (April – March)	May 10, 2017
Annual 2 (April – March)	May 10, 2018

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring.

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.

2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.

3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

4. Samples taken as required by this permit shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records.

1. Records of monitoring information shall include:
   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) and time(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results.

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Department of Environmental Quality
   Southwest Regional Office
   355-A Deadmore Street
   Abingdon, VA 24210

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information.

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges.

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or

2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges.

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;

2. The cause of the discharge;

3. The date on which the discharge occurred;

4. The length of time that the discharge continued;

5. The volume of the discharge;

6. If the discharge is continuing, how long it is expected to continue;

7. If the discharge is continuing, what the expected total volume of the discharge will be; and

8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges.

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;

2. Breakdown of processing or accessory equipment;

3. Failure or taking out of service some or all of the treatment works; and

4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:
   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the Department's Regional Office at (276) 676-4800 (voice) or (276) 676-4899 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes.

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
      (1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
      (2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;
   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements.

1. Applications. All permit applications shall be signed as follows:
   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make

management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described in Part II K 1;

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification:
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply.

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit.

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law.

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of solids or sludges.

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.

2. Notice
   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.

3. Prohibition of bypass.

   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
      (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
      (3) The permittee submitted notices as required under Part II U 2.
   b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II U 3 a.

V. <u>Upset.</u>

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
   a. An upset occurred and that the permittee can identify the cause(s) of the upset;
   b. The permitted facility was at the time being properly operated;
   c. The permittee submitted notice of the upset as required in Part II I; and
   d. The permittee complied with any remedial measures required under Part II S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry.

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions.

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits.

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:
   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2 b.

Z. Severability.

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

ATTACHMENT A
DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY CRITERIA MONITORING

Effective January 1, 2012, all analyses shall be in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

A listing of Virginia Environmental Laboratory Accreditation Program (VELAP) certified and/or accredited laboratories can be found at the following website:
http://www.dgs.state.va.us/DivisionofConsolidatedLaboratoryServices/Services/EnvironmentalLaboratoryCertification/tabid/1059/Default.aspx

Please be advised that additional water quality analyses may be necessary and/or required for permitting purposes.

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
METALS						
7440-36-0	Antimony, dissolved	(3)	20 ug/l		G or C	1/3M
7440-38-2	Arsenic, dissolved	(3)	34 ug/l		G or C	1/3M
7440-39-3	Barium, dissolved	(3)	6900 ug/l		G or C	1/3M
7440-43-9	Cadmium, dissolved	(3)	5.5 ug/l		G or C	1/3M
16065-83-1	Chromium III, dissolved [6]	(3)	360 ug/l		G or C	1/3M
18540-29-9	Chromium VI, dissolved [6]	(3)	30 ug/l		G or C	1/3M
7440-50-8	Copper, dissolved	(3)	36 ug/l		G or C	1/3M
7439-89-6	Iron, dissolved	(3)	1100 ug/l		G or C	1/3M
7439-92-1	Lead, dissolved	(3)	53 ug/l		G or C	1/3M
7439-96-5	Manganese, dissolved	(3)	140 ug/l		G or C	1/3M
7439-97-6	Mercury, dissolved	(3)	2.6 ug/l		G or C	1/3M
7440-02-0	Nickel, dissolved	(3)	95 ug/l		G or C	1/3M
7782-49-2	Selenium, Total Recoverable	(3)	15 ug/l		G or C	1/3M
7440-22-4	Silver, dissolved	(3)	14 ug/l		G or C	1/3M
7440-28-0	Thallium, dissolved	(3)	(4)		G or C	1/3M
7440-66-6	Zinc, dissolved	(3)	310 ug/l		G or C	1/3M
PESTICIDES/PCB'S						
309-00-2	Aldrin	608/625	0.05		G or C	1/3M
57-74-9	Chlordane	608/625	0.2		G or C	1/3M
2921-88-2	Chlorpyrifos (synonym = Dursban)	622	(4)		G or C	1/3M

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
72-54-8	DDD	608/625	0.1		G or C	1/3M
72-55-9	DDE	608/625	0.1		G or C	1/3M
50-29-3	DDT	608/625	0.1		G or C	1/3M
8065-48-3	Demeton-O,S	622	(4)		G or C	1/3M
333-41-5	Diazinon	622	(4)		G or C	1/3M
60-57-1	Dieldrin	608/625	0.1		G or C	1/3M
959-98-8	Endosulfan I (alpha)	608/625	0.1		G or C	1/3M
33213-65-9	Endosulfan II (beta)	608625	0.1		G or C	1/3M
1031-07-8	Endosulfan Sulfate	608/625	0.1		G or C	1/3M
72-20-8	Endrin	608/625	0.1		G or C	1/3M
7421-93-4	Endrin Aldehyde	608/625	(4)		G or C	1/3M
86-50-0	Guthion (synonym = Azinphos Methyl)	622	(4)		G or C	1/3M
76-44-8	Heptachlor	608/625	0.05		G or C	1/3M
1024-57-3	Heptachlor Epoxide	608/625	(4)		G or C	1/3M
319-84-6	Alpha-BHC (synonym = Alpha-Hexachlorocyclohexane)	608/626	(4)		G or C	1/3M
319-85-7	Beta-BHC (synonym = Beta-Hexachlorocyclohexane)	608/625	(4)		G or C	1/3M
58-89-9	Gamma-BHC (synonym = Lindane, Gamma-Hexachlorocyclohexane)	608/625	(4)		G or C	1/3M
143-50-0	Kepone	8081 Extended/ 8270C/8270D	(4)		G or C	1/3M
121-75-5	Malathion	614	(4)		G or C	1/3M
72-43-5	Methoxychlor	608.2	(4)		G or C	1/3M
2385-85-5	Mirex	8081 Extended/ 8270C/8270D	(4)		G or C	1/3M
56-38-2	Parathion (synonym = Parathion Ethyl)	614	(4)		G or C	1/3M
1336-36-3	PCB, total	608/625	7.0		G or C	1/3M
8001-35-2	Toxaphene	608/625	5.0		G or C	1/3M
BASE NEUTRAL EXTRACTABLES						
83-32-9	Acenaphthene	610/625	10.0		G or C	1/3M
120-12-7	Anthracene	610/625	10.0		G or C	1/3M
92-87-5	Benzidine	625	(4)		G or C	1/3M
56-55-3	Benzo (a) anthracene	610/625	10.0		G or C	1/3M

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
205-99-2	Benzo (b) fluoranthene	610/625	10.0		G or C	1/3M
207-08-9	Benzo (k) fluoranthene	610/625	10.0		G or C	1/3M
50-32-8	Benzo (a) pyrene	610/625	10.0		G or C	1/3M
111-44-4	Bis 2-Chloroethyl Ether	625	(4)		G or C	1/3M
108-60-1	Bis 2-Chloroisopropyl Ether	625	(4)		G or C	1/3M
117-81-7	Bis 2-ethylhexyl phthalate	625	10.0		G or C	1/3M
85-68-7	Butyl benzyl phthalate	625	10.0		G or C	1/3M
91-58-7	2-Chloronaphthalene	625	(4)		G or C	1/3M
218-01-9	Chrysene	610/625	10.0		G or C	1/3M
53-70-3	Dibenzo (a,h) anthracene	610/625	20.0		G or C	1/3M
84-74-2	Dibutyl phthalate (synonym = Di-n-butyl Phthalate)	625	10.0		G or C	1/3M
95-50-1	1,2-Dichlorobenzene	602/624	10.0		G or C	1/3M
541-73-1	1,3-Dichlorobenzene	602/624	10.0		G or C	1/3M
106-46-7	1,4-Dichlorobenzene	602/624	10.0		G or C	1/3M
91-94-1	3,3-Dichlorobenzidine	625	(4)		G or C	1/3M
84-66-2	Diethyl phthalate	625	10.0		G or C	1/3M
131-11-3	Dimethyl phthalate	625	(4)		G or C	1/3M
121-14-2	2,4-Dinitrotoluene	625	10.0		G or C	1/3M
122-66-7	1,2-Diphenylhydrazine	625/ 8270C/8270D	(4)		G or C	1/3M
206-44-0	Fluoranthene	610/625	10.0		G or C	1/3M
86-73-7	Fluorene	610/625	10.0		G or C	1/3M
118-74-1	Hexachlorobenzene	625	(4)		G or C	1/3M
87-68-3	Hexachlorobutadiene	625	(4)		G or C	1/3M
77-47-4	Hexachlorocyclopentadiene	625	(4)		G or C	1/3M
67-72-1	Hexachloroethane	625	(4)		G or C	1/3M
193-39-5	Indeno(1,2,3-cd)pyrene	610/625	20.0		G or C	1/3M
78-59-1	Isophorone	625	10.0		G or C	1/3M
98-95-3	Nitrobenzene	625	10.0		G or C	1/3M
62-75-9	N-Nitrosodimethylamine	625	(4)		G or C	1/3M

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
621-64-7	N-Nitrosodi-n-propylamine	625	(4)		G or C	1/3M
86-30-6	N-Nitrosodiphenylamine	625	(4)		G or C	1/3M
129-00-0	Pyrene	610/625	10.0		G or C	1/3M
120-82-1	1,2,4-Trichlorobenzene	625	10.0		G or C	1/3M
VOLATILES						
107-02-8	Acrolein	624	(4)		G	1/3M
107-13-1	Acrylonitrile	624	(4)		G	1/3M
71-43-2	Benzene	602/624	10.0		G	1/3M
75-25-2	Bromoform	624	10.0		G	1/3M
56-23-5	Carbon Tetrachloride	624	10.0		G	1/3M
108-90-7	Chlorobenzene (synonym = Monochlorobenzene)	602/624	50.0		G	1/3M
124-48-1	Chlorodibromomethane	624	10.0		G	1/3M
67-66-3	Chloroform (synonym = Methyl Trichloride)	624	10.0		G	1/3M
75-09-2	Dichloromethane (synonym = Methylene Chloride)	624	20.0		G	1/3M
75-27-4	Dichlorobromomethane	624	10.0		G	1/3M
107-06-2	1,2-Dichloroethane	624	10.0		G	1/3M
75-35-4	1,1-Dichloroethylene	624	10.0		G	1/3M
156-60-5	1,2-trans-dichloroethylene	624	(4)		G	1/3M
78-87-5	1,2-Dichloropropane	624	(4)		G	1/3M
542-75-6	1,3-Dichloropropene	624	(4)		G	1/3M
100-41-4	Ethylbenzene	602/624	10.0		G	1/3M
74-83-9	Methyl Bromide (synonym = Bromomethane)	624	(4)		G	1/3M
79-34-5	1,1,2,2-Tetrachloroethane	624	(4)		G	1/3M
127-18-4	Tetrachloroethylene (synonym = Tetrachloroethene)	624	10.0		G	1/3M
10-88-3	Toluene	602/624	10.0		G	1/3M
79-00-5	1,1,2-Trichloroethane	624	(4)		G	1/3M
79-01-6	Trichloroethylene (synonym = Trichloroethene)	624	10.0		G	1/3M
75-01-4	Vinyl Chloride	624	10.0		G	1/3M

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
RADIONUCLIDES						
N/A	Beta Particle & Photon Activity (mrem/yr)	(3)	(4)		G or C	1/3M
N/A	Gross Alpha Particle Activity (pCi/L)	(3)	(4)		G or C	1/3M
N/A	Combined Radium 226 and 228	(3)	(4)		G or C	1/3M
N/A	Uranium	(3)	(4)		G or C	1/3M
ACID EXTRACTABLES						
95-57-8	2-Chlorophenol	625	10.0		G or C	1/3M
120-83-2	2,4 Dichlorophenol	625	10.0		G or C	1/3M
105-67-9	2,4 Dimethylphenol	625	10.0		G or C	1/3M
51-28-5	2,4-Dinitrophenol	625	(4)		G or C	1/3M
534-52-1	2-Methyl-4,6-Dinitrophenol	625	(4)		G or C	1/3M
25154-52-3	Nonylphenol	ASTM D 7065-06	(4)		G or C	1/3M
87-86-5	Pentachlorophenol	625	50.0		G or C	1/3M
108-95-2	Phenol	625	10.0		G or C	1/3M
88-06-2	2,4,6-Trichlorophenol	625	10.0		G or C	1/3M
MISCELLANEOUS						
776-41-7	Ammonia as NH3-N	350.1	200		G or C	1/3M
16887-00-6	Chloride	(3)	(4)		G or C	1/3M
7782-50-5	Chlorine, Total Residual	(3)	100		G	1/3M
57-12-5	Cyanide, Free	ASTM 4282-02	10.0		G or C	1/3M
N/A	Foaming Agents (as MBAS)	SM 5540 C	(4)		G	1/3M
18496-25-8	Sulfide, dissolved [7]	SM 4500 S^2 B	100		G or C	1/3M
14797-55-8	Nitrate as N (mg/L)	(3)	(4)		G or C	1/3M
N/A	Sulfate (mg/L)	(3)	(4)		G or C	1/3M
N/A	Total Dissolved Solids (mg/L)	(3)	(4)		G or C	1/3M
60-10-5	Tributyltin	(5)	(4)		G or C	1/3M
93-72-1	2-(2,4,5-Trichlorophenoxy) propionic acid (synonym = Silvex)	615	(4)		G or C	1/3M
471-34-1	Hardness (mg/L as $CaCO_3$)	(3)	(4)		G or C	1/3M

_____

Name of Principal Executive Officer or Authorized Agent & Title

_____

Signature of Principal Executive Officer or Authorized Agent & Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

FOOTNOTES:

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

The quantification levels indicated for the metals are actually Specific Target Values developed for this permit. The Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The Specific Target Values are subject to change based on additional information such as hardness data, receiving stream flow, and design flows.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained.

(2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

C = Composite = A composite shall be a combination of individual samples, obtained at hourly until the VCHEC discharge ceases or for a period no greater than 24 hours.

(3) A specific analytical method is not specified; however a QL has been established. An appropriate method to meet the QL shall be selected from any approved method presented in 40 CFR Part 136. If the test result is less than the method QL, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

(4) The QL is at the discretion of the permittee.

(5) Analytical Methods: Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science, dated November 1996 (currently the only Virginia Environmental Laboratory Accreditation Program (VELAP) accredited method).

(6) Both Chromium III and Chromium VI may be measured by the total chromium analysis. If the result of the total chromium analysis is less than or equal to the lesser of the Chromium III or Chromium VI method QL, the results for both Chromium III and Chromium VI can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].

(7) Dissolved sulfide may be measured by the total sulfide analysis. If the result of the total sulfide analysis is less than or equal to the dissolved sulfide QL, then dissolved sulfide can be reported as “<[QL]”, where the actual analytical test QL is substituted for [QL].

(8) Free cyanide may be measured by the total cyanide analysis. The total cyanide analytical test QL shall be less than or equal to the free cyanide method QL listed above. If the result of the total cyanide analysis is less than the analytical test QL, free cyanide can be reported as “<[QL]”, where the actual analytical test QL is substituted for [QL].

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
SOUTHWEST REGIONAL OFFICE
355-A Deadmore Street, Abingdon, Virginia 24210
Phone (276) 676-4800 Fax (276) 676-4899
www.deq.virginia.gov

Matthew J. Strickler
Secretary of Natural Resources

David K. Paylor
Director

Jeffrey Hurst
Regional Director

March 25, 2019

David A. Cramer, Vice President
Power Generation – Systems Operations
Virginia Electric and Power Company
5000 Dominion Boulevard
Glen Allen, VA 23060

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re: VPDES Permit No. VA0092746; Virginia City Hybrid Energy Center; 3425 Russell Creek Road, St. Paul, VA; Wise County

Dear Mr. Cramer,

The VPDES permit for the Virginia City Hybrid Energy Center is enclosed. The first Discharge Monitoring Report (DMR) required by this permit for the monthly monitored parameters is due on May 10, 2019 for the month of April. The first DMR required by this permit for the quarterly monitored parameters is due on July 10, 2019 for the 2nd quarter period (i.e. April, May and June). Monitoring results on the DMRs should be reported to the same number of significant digits as are included in the permit limit for the parameter.

A printed copy of a DMR report is enclosed; however, the facility should report using the e-DMR system.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under §§ 62.1 - 44.16, 62.1 - 44.17, and 62.1 - 44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in 9VAC25-230-130 (Procedural Rule No. 1 – Petition for formal hearing). In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

Please feel free to contact David Nishida by email at david.nishida@deq.virginia.gov or by phone at (276) 676-4864 with any questions you may have.

Sincerely,

Mark S. Trent
Water Permit Manager

Enclosure:
VPDES Permit No. VA0092746
Discharge Monitoring Reports (001, 103)
"Attachment A" Monitoring Report

cc: Laura Socia, VCHEC (laura.a.socia@dominionenergy.com)
Brian Blankenship, VDH (brian.Blankenship@vdh.virginia.gov)

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit Number VA0092746

Effective Date: April 1, 2019
Expiration Date: March 31, 2024

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
AND
THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I - Limitations and Monitoring Requirements, and Part II – Conditions Applicable To All VPDES Permits, as set forth herein.

Owner:	Virginia Electric and Power Company
Facility Name:	Virginia City Hybrid Energy Center
City:	St. Paul
County:	Wise County
Facility Location:	3425 Russell Creek Road, St. Paul, VA

The owner is authorized to discharge to the following receiving stream:

Receiving Stream:	Clinch River
Basin:	Tennessee-Big Sandy River
Subbasin:	Clinch
Section:	2a
Class:	IV
Special Standards:	pws

Jeffrey V. Hyland

Regional Director, Department of Environmental Quality

March 25, 2019

Date

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall serial number 001 (combined wastewater discharge)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristics	Discharge Limitation				Monitoring Requirements	
	Monthly Average	Weekly Average	Minimum	Daily Maximum	Frequency	Sample Type
Flow (MGD)*	NL	NA	NA	NL	1/Day	Calculated
Acute Whole Effluent Toxicity (NOAEC) (*Ceriodaphnia dubia*)	NA	NA	NL	NA	1/3Months	Composite**
Chronic Whole Effluent Toxicity (TUc) (*Ceriodaphnia dubia*)	NA	NA	NA	NL	1/3Months	Composite**
Acute Whole Effluent Toxicity (NOAEC) (*Pimaphales promelas*)	NA	NA	NL	NA	1/3Months	Composite**
Chronic Whole Effluent Toxicity (TUc) (*Pimaphales promelas*)	NA	NA	NA	NL	1/3Months	Composite**

NL= No Limitation, monitoring required
NA= Not Applicable

There shall be no discharge of floating solids or visible foam in other than trace amounts.

See Part I.B.11 for additional requirements regarding Whole Effluent Toxicity monitoring requirements.

* The values reported for flow shall be calculated from the daily sum of the discharges from both the Dominion VCHEC facility and from the St. Paul wastewater treatment plant.

** The composite sample required for this reporting shall consist of a composite of subsamples taken at hourly intervals for the duration of the discharge or for a maximum of 24 hours, whichever is less.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from internal outfall serial number 103. (VCHEC waste water treatment plant discharge)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristics	Discharge Limitation				Monitoring Requirements	
	Monthly Average	Weekly Average	Minimum	Daily Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	Continuous	Totalizing Indicating & Recording
pH (standard units)	NA	NA	6.0	9.0	1/Month	Grab
Total Suspended Solids	30 mg/L	NA	NA	50 mg/L	1/Month	Composite *
Total Copper	68 ug/L	NA	NA	68 ug/L	1/Month	Composite *
Total Iron	1000 ug/L	NA	NA	1000 ug/L	1/Mouth	Composite *
Oil and Grease	15 mg/L	NA	NA	20 mg/L	1/Month	Grab
Chromium VI **	62 ug/L	NA	NA	62 ug/L	1/Month	Composite *
Total Zinc	790 ug/L	NA	NA	790 ug/L	1/Month	Composite *
Total Residual Chlorine	88 ug/L	NA	NA	88 ug/L	1/Month	Grab
Total Chromium	200 ug/L	NA	NA	200 ug/L	1/Month	Composite *

NL= No Limitation, monitoring required
NA= Not Applicable

There shall be no discharge of floating solids or visible foam in other than trace amounts.

See Part I.B.7 for additional monitoring and reporting requirements.

* The composite sample required for this reporting shall consist of a composite of subsamples at taken hourly intervals for the duration of the discharge or for a maximum of 24 hours, whichever is less.

** Compliance with the limit for Chromium VI may be demonstrated through monitoring for Total Chromium and assume a one-to-one relationship.

B. OTHER REQUIREMENTS OR SPECIAL CONDITIONS:

1. This permit shall be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard, limitation or prohibition for a pollutant which is promulgated or approved under Section 307(a)(2) of the Clean Water Act, if the effluent standard, limitation, or prohibition so promulgated or approved:

   a. Is more stringent than any effluent limitation on the pollutant already in the permit; or

   b. Controls any pollutant not limited in the permit.

2. There shall be no maintenance chemical additives in the cooling tower blow-down discharges which contain the 126 priority pollutants unless: 1) the permittee can demonstrate compliance with the requirements applicable to the addition of maintenance chemicals to cooling tower discharges as outlined under the Steam Electric Effluent Guidelines (40 CFR Part 423), and 2) the permittee obtains approval from DEQ for the changes in cooling tower maintenance chemicals.

3. Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner and consistent with Best Management Practices, so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

4. Within 90 day of the effective date of the permit, the permittee shall develop and maintain an Operations and Maintenance (O&M) Manual for the treatment works that is in accordance with Virginia Pollutant Discharge Elimination System Regulations, 9VAC25-31. The O&M Manual and subsequent revisions shall include the manual effective date and meet Part II.K.2 and Part II.K.4 Signatory Requirements of the permit.

   Any changes in the practices and procedures followed by the permittee shall be documented in the O&M Manual within 90 days of the effective date of the changes. The permittee shall operate the treatment works in accordance with the O&M Manual and shall make the O&M manual available to Department personnel for review during facility inspections. Within 30 days of a request by DEQ, the current O&M Manual shall be submitted to the DEQ Regional Office for review and approval.

   The O&M manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

   a. Permitted outfall locations and techniques to be employed in the collection, preservation, and analysis of effluent, storm water and sludge samples;

   b. Procedures for measuring and recording the duration and volume of treated wastewater discharged;

   c. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants characterized in Part I.B.3 that will prevent these materials from reaching state waters;

   d. Discussion of treatment works design, treatment works operation, routine preventative

maintenance of units within the treatment works, critical spare parts inventory and record keeping;

e. Hours of operation and staffing requirements for the plant to ensure effective operation of the treatment works and maintain permit compliance;

f. List of facility, local and state emergency contacts; and,

g. Procedures for reporting and responding to any spills/overflows/treatment works upsets.

5. The permittee shall notify the Department as soon as they know or have reason to believe:
   a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
      (1) One hundred micrograms per liter (100 ug/l);
      (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
      (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
      (4) The level established by the Board.
   b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
      (1) Five hundred micrograms per liter (500 ug/l);
      (2) One milligram per liter (1 mg/l) for antimony;
      (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
      (4) The level established by the Board.

6. The permittee shall employ or contract at least one wastewater works operator who holds a current wastewater license appropriate for the permitted facility. A **Class II** licensed operator is required for this facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the Board for Waterworks and Wastewater Works Operators. The permittee shall notify the Department in writing whenever the facility is not complying, or has grounds for anticipating they will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

7. The permittee shall comply with the following reporting requirements for all Part I.A monitoring:

   a. **Quantification Levels** -- The quantification levels (QL) shall be less than or equal to the following concentrations:

Effluent Parameter	Quantification Level
TSS	1.0 mg/L
Chlorine	0.10 mg/L
Oil & Grease	5.0 mg/L
Total Recoverable Iron	0.25 mg/L
Total Recoverable Copper	10 ug/L

Total Recoverable Chromium	10 ug/L
Total Recoverable Zinc	30 ug/L

The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have heen attained. The permittee shall use any method in accordance with Part II A of this permit.

b. **Monthly Average** -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above shall be treated as zero. All concentration data equal to or above the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as it is reported. An arithmetic average sball be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above), then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported monthly average concentration is <QL, then report "<QL" for the quantity. Otherwise use the reported concentration data (including the defined zeros) and flow data for each sample day to determine the daily quantity and report the monthly average of the calculated daily quantities.

c. **Daily Maximum** -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as reported. An arithmetic average shall he calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL used for the analysis (QL must he less than or equal to the QL listed in a. above), then the maximum value of the daily averages shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported daily maximum is <QL, then report "<QL" for the quantity. Otherwise use the reported daily average concentrations (including the defined zeros) and corresponding daily flows to determine daily average quantities and report the maximum of the daily average quantities during the reporting month.

d. **Single Datum** - Any single datum required shall be reported as "<QL" if it is less than the QL used in the analysis (QL must be less than or equal to the QL listed in a. above). Otherwise the numerical value shall be reported.

e. **Significant Digits** -- The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention

used by the permittee (i.e., 5 always rounding up or to the nearest even number), the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

8. This permit shall be modified or alternatively revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

9. The permittee shall monitor the effluent at **outfall 103** for the substances noted in Attachment A, "Water Quality Criteria Monitoring" according to the indicated analysis number, quantification level and sample type. The monitoring shall be conducted quarterly in conjunction with the whole effluent toxicity monitoring requirements of Part I.B.11 for the life of the permit, or until at least 10 sets of data results are collected.

   Using Attachment A as the reporting form, the data shall be submitted with the discharge monitoring reports for the quarterly periods in which the monitoring was performed. The due dates for quarterly reporting are January 10, April 10, July 10 and October 10 of each year.

   Monitoring and analysis shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved methods. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures.

10. Should effluent monitoring indicate the need for any water quality based effluent limitation, this permit may be modified, or alternatively revoked and reissued to incorporate appropriate effluent limitations.

11. Whole Effluent Toxicity Monitoring Program:

    a. Biological Monitoring:

       (1). In accordance with the testing and reporting schedule contained in Part I.B.11.b. below, the permittee shall conduct quarterly acute and chronic toxicity tests until there are a minimum of 10 for each test required. **The permittee shall collect composite samples of final effluent from outfall 001 during periods when both VCHEC and the Town of St. Paul are contributing flow to the combined outfall. These tests shall be initiated with composite samples from the combined effluent, but in cases where the VCHEC discharges cease, subsequent samples for the completion of the tests may be obtained from samples of the discharge from the St. Paul wastewater treatment plant.**

       The acute multi-dilution NOAEC tests to use are:

       48 Hour Static Acute test using *Ceriodaphnia dubia*

       48 Hour Static Acute test using *Pimephales promelas*

These acute tests are to be conducted using 5 geometric dilutions of effluent with a minimum of 4 replicates, with 5 organisms in each. The NOAEC (No Observed Adverse Effect Concentration), as determined by hypothesis testing, shall be reported on the DMR as a percentage. The LC_{50} should also be determined and noted on the submitted report. Tests in which control survival is less than 90% are not acceptable.

The chronic tests to use are:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*

Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration"(NOEC) for survival and reproduction or growth. Results which cannot be determined i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for DMR reporting. Report the LC_{50} at 48 hours and the IC_{25} with the NOEC's in the test report.

The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

(2) The test dilutions should be able to determine compliance with the following endpoints:

(a) Acute NOAEC = 100%

(b) Chronic NOEC of $\geq$ 13% equivalent to a TU_c of $\leq$ 7.69

(3) The test data will be statistically evaluated for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of 11.a.1. may be discontinued.

(4) If after evaluating the data, it is determined that no limit is needed, the permittee shall continue acute and chronic toxicity testing (both species) of the outfall annually, as on the reporting schedule in 11.b. All applicable data will be reevaluated for reasonable potential at the end of the permit term.

b. Reporting Schedule:

The permittee shall report the results on the DMR and supply a copy of the toxicity test reports specified in this Whole Effluent Toxicity Monitoring Program in accordance with the following schedule:

Compliance Periods	DMR/Report Submission Dates
Quarter 1 (April – June)	July 10, 2019
Quarter 2 (July – September)	October 10, 2019
Quarter 3 (October – December)	January 10, 2020
Quarter 4 (January – March)	April 10, 2020
Quarter 5 (April – June)	July 10, 2020
Quarter 6 (July – September)	October 10, 2020
Quarter 7 (October – December)	January 10, 2021
Quarter 8 (January – March)	April 10, 2021
Quarter 9 (April – June)	July 10, 2021
Quarter 10 (July – September)	October 10, 2021
Annual 1 (January – December)	January 10, 2023
Annual 2 (January – December)	January 10, 2024

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring.

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.

   a. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.

   b. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

   c. Samples taken shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

2. Any pollutant specifically addressed by this permit that is sampled or measured at the permit designated or approved location more frequently than required by this permit shall meet the requirements in A. 1. a. through c. above and the results of this monitoring shall be included in the calculations and reporting required by this permit.

3. Operational or process control samples or measurements shall not be taken at the designated permit sampling or measurement locations. Operational or process control samples or measurements do not need to follow procedures approved under Title 40 Code of Federal Regulations Part 136 or be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records.

1. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;

   b. The individual(s) who performed the sampling or measurements;

   c. The date(s) and time(s) analyses were performed;

   d. The individual(s) who performed the analyses;

   e. The analytical techniques or methods used; and

f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results.

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

Department of Environmental Quality
Southwest Regional Office
355-A Deadmore Street
Abingdon, VA 24210

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information.

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges.

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or

2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges.

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;

2. The cause of the discharge;

3. The date on which the discharge occurred;

4. The length of time that the discharge continued;

5. The volume of the discharge;

6. If the discharge is continuing, how long it is expected to continue;

7. If the discharge is continuing, what the expected total volume of the discharge will be; and

8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges.

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;

2. Breakdown of processing or accessory equipment;

3. Failure or taking out of service some or all of the treatment works; and

4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:

   a. Any unanticipated bypass; and

   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:

   a. A description of the noncompliance and its cause;

   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and

   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the Department's Regional Office at (276) 676-4800 (voice) or (276) 676-4899 (fax) or by email to (abingdon.upd@deq.virginia.gov). The reporting may also be made online at (http://www.deq.virginia.gov/Programs/PollutionResponsePreparedness/MakingaReport.aspx). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes.

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

      (1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or

      (2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements.

1. Applications. All permit applications shall be signed as follows:

   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

   b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

   c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part II K 1;

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

   c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification:
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply.

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit.

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law.

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of solids or sludges.

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which bas a reasonable likelihood of adversely affecting human health or the enviromnent.

T. Need to Halt or Reduce Activity not a Defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.

2. Notice

   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.

   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.

3. Prohibition of bypass.

   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:

      (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

      (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

      (3) The permittee submitted notices as required under Part II U 2.

   b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset.

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   a. An upset occurred and that the permittee can identify the cause(s) of the upset;

   b. The permitted facility was at the time being properly operated;

   c. The permittee submitted notice of the upset as required in Part II I; and

   d. The permittee complied with any remedial measures required under Part II S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry.

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions.

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits.

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or

operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;

   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2 b.

Z. Severability.

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

ATTACHMENT A
DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY CRITERIA MONITORING

Effective January 1, 2012, all analyses shall be in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

A listing of Virginia Environmental Laboratory Accreditation Program (VELAP) certified and/or accredited laboratories can be found at the following website:
http://www.dgs.state.va.us/DivisionofConsolidatedLaboratoryServices/Services/EnvironmentalLaboratoryCertification/tabid/1059/Default.aspx

Please be advised that additional water quality analyses may be necessary and/or required for permitting purposes.

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
METALS						
7440-36-0	Antimony, dissolved	(3)	20 ug/l		G or C	1/3M
7440-38-2	Arsenic, dissolved	(3)	33 ug/l		G or C	1/3M
7440-39-3	Barium, dissolved	(3)	6900 ug/l		G or C	1/3M
7440-43-9	Cadmium, dissolved	(3)	5.5 ug/l		G or C	1/3M
16065-83-1	Chromium III, dissolved [5]	(3)	350 ug/l		G or C	1/3M
18540-29-9	Chromium VI, dissolved [5]	(3)	23 ug/l		G or C	1/3M
7440-50-8	Copper, dissolved	(3)	36 ug/l		G or C	1/3M
7439-89-6	Iron, dissolved	(3)	1100 ug/l		G or C	1/3M
7439-92-1	Lead, dissolved	(3)	53 ug/l		G or C	1/3M
7439-96-5	Manganese, dissolved	(3)	140 ug/l		G or C	1/3M
7439-97-6	Mercury, dissolved	(3)	2.6 ug/l		G or C	1/3M
7440-02-0	Nickel, dissolved	(3)	95 ug/l		G or C	1/3M
7782-49-2	Selenium, Total Recoverable	(3)	15 ug/l		G or C	1/3M
7440-22-4	Silver, dissolved	(3)	14 ug/l		G or C	1/3M
7440-28-0	Thallium, dissolved	(3)	(4)		G or C	1/3M
7440-66-6	Zinc, dissolved	(3)	320 ug/l		G or C	1/3M
PESTICIDES/PCB'S						
309-00-2	Aldrin	608/625	0.05		G or C	1/3M
57-74-9	Chlordane	608/625	0.2		G or C	1/3M
2921-88-2	Chlorpyrifos (synonym = Dursban)	622	(4)		G or C	1/3M

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
72-54-8	DDD	608/625	0.1		G or C	1/3M
72-55-9	DDE	608/625	0.1		G or C	1/3M
50-29-3	DDT	608/625	0.1		G or C	1/3M
8065-48-3	Demeton-O,S	622	(4)		G or C	1/3M
333-41-5	Diazinon	622	(4)		G or C	1/3M
60-57-1	Dieldrin	608/625	0.1		G or C	1/3M
959-98-8	Endosulfan I (alpha)	608/625	0.1		G or C	1/3M
33213-65-9	Endosulfan II (beta)	608625	0.1		G or C	1/3M
1031-07-8	Endosulfan Sulfate	608/625	0.1		G or C	1/3M
72-20-8	Endrin	608/625	0.1		G or C	1/3M
7421-93-4	Endrin Aldehyde	608/625	(4)		G or C	1/3M
86-50-0	Guthion (synonym = Azinphos Methyl)	622	(4)		G or C	1/3M
76-44-8	Heptachlor	608/625	0.05		G or C	1/3M
1024-57-3	Heptachlor Epoxide	608/625	(4)		G or C	1/3M
319-84-6	Alpha-BHC (synonym = Alpha-Hexachlorocyclohexane)	608/626	(4)		G or C	1/3M
319-85-7	Beta-BHC (synonym = Beta-Hexachlorocyclohexane)	608/625	(4)		G or C	1/3M
58-89-9	Gamma-BHC (synonym = Lindane, Gamma-Hexachlorocyclohexane)	608/625	(4)		G or C	1/3M
143-50-0	Kepone	8081 Extended/ 8270C/8270D	(4)		G or C	1/3M
121-75-5	Malathion	614	(4)		G or C	1/3M
72-43-5	Methoxychlor	608.2	(4)		G or C	1/3M
2385-85-5	Mirex	8081 Extended/ 8270C/8270D	(4)		G or C	1/3M
56-38-2	Parathion (synonym = Parathion Ethyl)	614	(4)		G or C	1/3M
1336-36-3	PCB, total	608/625	7.0		G or C	1/3M
8001-35-2	Toxaphene	608/625	5.0		G or C	1/3M
BASE NEUTRAL EXTRACTABLES						
83-32-9	Acenaphthene	610/625	10.0		G or C	1/3M
120-12-7	Anthracene	610/625	10.0		G or C	1/3M
92-87-5	Benzidine	625	(4)		G or C	1/3M
56-55-3	Benzo (a) anthracene	610/625	10.0		G or C	1/3M

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
205-99-2	Benzo (b) fluoranthene	610/625	10.0		G or C	1/3M
207-08-9	Benzo (k) fluoranthene	610/625	10.0		G or C	1/3M
50-32-8	Benzo (a) pyrene	610/625	10.0		G or C	1/3M
111-44-4	Bis 2-Chloroethyl Ether	625	(4)		G or C	1/3M
108-60-1	Bis 2-Chloroisopropyl Ether	625	(4)		G or C	1/3M
117-81-7	Bis 2-ethylhexyl phthalate	625	10.0		G or C	1/3M
85-68-7	Butyl benzyl phthelate	625	10.0		G or C	1/3M
91-58-7	2-Chloronaphthalene	625	(4)		G or C	1/3M
218-01-9	Chrysene	610/625	10.0		G or C	1/3M
53-70-3	Dibenzo (a,h) anthracene	610/625	20.0		G or C	1/3M
84-74-2	Dibutyl phthalate (synonym = Di-n-butyl Phthalate)	625	10.0		G or C	1/3M
95-50-1	1,2-Dichlorobenzene	602/624	10.0		G or C	1/3M
541-73-1	1,3-Dichlorobenzene	602/624	10.0		G or C	1/3M
106-46-7	1,4-Dichlorobenzene	602/624	10.0		G or C	1/3M
91-94-1	3,3-Dichlorobenzidine	625	(4)		G or C	1/3M
84-66-2	Diethyl phthalate	625	10.0		G or C	1/3M
131-11-3	Dimethyl phthalate	625	(4)		G or C	1/3M
121-14-2	2,4-Dinitrotoluene	625	10.0		G or C	1/3M
122-66-7	1,2-Diphenylhydrazine	625/ 8270C/8270D	(4)		G or C	1/3M
206-44-0	Fluoranthene	610/625	10.0		G or C	1/3M
86-73-7	Fluorene	610/625	10.0		G or C	1/3M
118-74-1	Hexachlorobenzene	625	(4)		G or C	1/3M
87-68-3	Hexachlorobutadiene	625	(4)		G or C	1/3M
77-47-4	Hexachlorocyclopentadiene	625	(4)		G or C	1/3M
67-72-1	Hexachloroethane	625	(4)		G or C	1/3M
193-39-5	Indeno(1,2,3-cd)pyrene	610/625	20.0		G or C	1/3M
78-59-1	Isophorone	625	10.0		G or C	1/3M
98-95-3	Nitrobenzene	625	10.0		G or C	1/3M
62-75-9	N-Nitrosodimethylamine	625	(4)		G or C	1/3M

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
621-64-7	N-Nitrosodi-n-propylamine	625	(4)		G or C	1/3M
86-30-6	N-Nitrosodiphenylamine	625	(4)		G or C	1/3M
129-00-0	Pyrene	610/625	10.0		G or C	1/3M
120-82-1	1,2,4-Trichlorobenzene	625	10.0		G or C	1/3M
	VOLATILES					
107-02-8	Acrolein	624	(4)		G	1/3M
107-13-1	Acrylonitrile	624	(4)		G	1/3M
71-43-2	Benzene	602/624	10.0		G	1/3M
75-25-2	Bromoform	624	10.0		G	1/3M
56-23-5	Carbon Tetrachloride	624	10.0		G	1/3M
108-90-7	Chlorobenzene (synonym = Monochlorobenzene)	602/624	50.0		G	1/3M
124-48-1	Chlorodibromomethane	624	10.0		G	1/3M
67-66-3	Chloroform (synonym = Methyl Trichloride)	624	10.0		G	1/3M
75-09-2	Dichloromethane (synonym = Methylene Chloride)	624	20.0		G	1/3M
75-27-4	Dichlorobromomethane	624	10.0		G	1/3M
107-06-2	1,2-Dichloroethane	624	10.0		G	1/3M
75-35-4	1,1-Dichloroethylene	624	10.0		G	1/3M
156-60-5	1,2-trans-dichloroethylene	624	(4)		G	1/3M
78-87-5	1,2-Dichloropropane	624	(4)		G	1/3M
542-75-6	1,3-Dichloropropene	624	(4)		G	1/3M
100-41-4	Ethylbenzene	602/624	10.0		G	1/3M
74-83-9	Methyl Bromide (synonym = Bromomethane)	624	(4)		G	1/3M
79-34-5	1,1,2,2-Tetrachloroethane	624	(4)		G	1/3M
127-18-4	Tetrachloroethylene (synonym = Tetrachloroethene)	624	10.0		G	1/3M
10-88-3	Toluene	602/624	10.0		G	1/3M
79-00-5	1,1,2-Trichloroethane	624	(4)		G	1/3M
79-01-6	Trichloroethylene (synonym = Trichloroethene)	624	10.0		G	1/3M
75-01-4	Vinyl Chloride	624	10.0		G	1/3M

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL[1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
	RADIONUCLIDES					
N/A	Beta Particle & Photon Activity (mrem/yr)	(3)	(4)		G or C	1/3M
N/A	Gross Alpha Particle Activity (pCi/L)	(3)	(4)		G or C	1/3M
N/A	Combined Radium 226 and 228	(3)	(4)		G or C	1/3M
N/A	Uranium	(3)	(4)		G or C	1/3M
	ACID EXTRACTABLES					
95-57-8	2-Chlorophenol	625	10.0		G or C	1/3M
120-83-2	2,4 Dichlorophenol	625	10.0		G or C	1/3M
105-67-9	2,4 Dimethylphenol	625	10.0		G or C	1/3M
51-28-5	2,4-Dinitrophenol	625	(4)		G or C	1/3M
534-52-1	2-Methyl-4,6-Dinitrophenol	625	(4)		G or C	1/3M
25154-52-3	Nonylphenol	ASTM D 7065-06	(4)		G or C	1/3M
87-86-5	Pentachlorophenol	625	50.0		G or C	1/3M
108-95-2	Phenol	625	10.0		G or C	1/3M
88-06-2	2,4,6-Trichlorophenol	625	10.0		G or C	1/3M
	MISCELLANEOUS					
776-41-7	Ammonia as NH3-N	350.1	200		G or C	1/3M
16887-00-6	Chloride	(3)	(4)		G or C	1/3M
7782-50-5	Chlorine, Total Residual	(3)	100		G	1/3M
57-12-5	Cyanide, Free	ASTM 4282-02	10.0		G or C	1/3M
N/A	Foaming Agents (as MBAS)	SM 5540 C	(4)		G	1/3M
18496-25-8	Sulfide, dissolved[7]	SM 4500 S^{2-} B	100		G or C	1/3M
14797-55-8	Nitrate as N (mg/L)	(3)	(4)		G or C	1/3M
N/A	Sulfate (mg/L)	(3)	(4)		G or C	1/3M
N/A	Total Dissolved Solids (mg/L)	(3)	(4)		G or C	1/3M
60-10-5	Tributyltin	(5)	(4)		G or C	1/3M
93-72-1	2-(2,4,5-Trichlorophenoxy) propionic acid (synonym = Silvex)	615	(4)		G or C	1/3M
471-34-1	Hardness (mg/L as $CaCO_3$)	(3)	(4)		G or C	1/3M

Name of Principal Executive Officer or Authorized Agent & Title

Signature of Principal Executive Officer or Authorized Agent & Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

FOOTNOTES:

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

The quantification levels indicated for the metals are actually Specific Target Values developed for this permit. The Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The Specific Target Values are subject to change based on additional information such as hardness data, receiving stream flow, and design flows.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained.

(2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

C = Composite = A composite shall be a combination of individual samples, obtained at hourly until the VCHEC discharge ceases or for a period no greater than 24 hours.

(3) A specific analytical method is not specified; however a QL has been established. An appropriate method to meet the QL shall be selected from any approved method presented in 40 CFR Part 136. If the test result is less than the method QL, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

(4) The QL is at the discretion of the permittee.

(5) Analytical Methods: Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science, dated November 1996 (currently the only Virginia Environmental Laboratory Accreditation Program (VELAP) accredited method).

(6) Both Chromium III and Chromium VI may be measured by the total chromium analysis. If the result of the total chromium analysis is less than or equal to the lasser of the Chromium III or Chromium VI mathod QL, the results for both Chromium III and Chromium VI can be reported as "<[QL]", where the actual analytical test QL is substitutad for [QL].

(7) Dissolved sulfide may be measured by the total sulfide analysis. If the result of the total sulfide analysis is less than or equal to the dissolved sulfide QL, then dissolved sulfide can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].

(8) Free cyanide may be measured by the total cyanide analysis. The total cyanide analytical test QL shall be less than or equal to the free cyanide method QL listed above. If the result of the total cyanide analysis is less than the analytical test QL, free cyanide can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].

PERMITTED FACILITY

Dominion Energy - VA City Hybrid Energy Center
5000 Dominion Blvd, Glen Allen VA 23060
Permit Number: VA0092746
Permit Type: Major Industrial
No Discharge: ☐

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

	MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

RETURN TO

Department of Environmental Quality
Southwest Regional Office
355-A Deadmore Street, Abingdon VA 24210
(276) 676-4800

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM AND RETURNING IT.

Outfall Num: 001 **Reporting Frequency: Month**

Run Date: Mar 25, 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/DAY	CALC

Additional Permit Requirements (Outfall 001):
Comments:

PERMITTED FACILITY

Dominion Energy - VA City Hybrid Energy Center
5000 Dominion Blvd, Glen Allen VA 23060
Permit Number: VA0092746
Permit Type: Major Industrial
No Discharge: ☐

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

	MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

RETURN TO

Department of Environmental Quality
Southwest Regional Office
355-A Deadmore Street, Abingdon VA 24210
(276) 676-4800
NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM AND RETURNING IT.

Outfall Num: 001 **Reporting Frequency: Quarter**

Run Date: Mar 25, 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
704 NOAEC - ACUTE 48 HR STAT CERIODAPHNIA DUBIA	REPORTD	*********	*********			*********	*********				
	REQRMNT	*********	*********		NL	*********	*********	%		1/3M	COMP
705 NOAEC - ACUTE 48 HR STAT PIMEPHALES PROMELAS	REPORTD	*********	*********			*********	*********				
	REQRMNT	*********	*********		NL	*********	*********	%		1/3M	COMP
720 TUc - CHRONIC 3-BROOD STATRE CERIODAPHNIA DUBIA	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-C		1/3M	COMP
721 TUc - CHRONIC 7-DAY STATRE PIMEPHALES PROMELAS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	TU-C		1/3M	COMP

Additional Permit Requirements (Outfall 001):
Comments:

PERMITTED FACILITY

Dominion Energy - VA City Hybrid Energy Center
5000 Dominion Blvd, Glen Allen VA 23060
Permit Number: VA0092746
Permit Type: Major Industrial
No Discharge: ☐

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

	MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

RETURN TO

Department of Environmental Quality
Southwest Regional Office
355-A Deadmore Street, Abingdon VA 24210
(276) 676-4800

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM AND RETURNING IT.

Outfall Num: 103 **Reporting Frequency: Month**

Run Date: Mar 25, 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			CONT	TIRE
002 pH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		1/M	GRAB
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30	50	MG/L		1/M	COMP
023 CHROMIUM, HEXAVALENT (AS CR)	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	62	62	UG/L		1/M	COMP
165 CL2, INST RES MAX	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	88	88	UG/L		1/M	GRAB
196 ZINC, TOTAL RECOVERABLE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	790	790	UG/L		1/M	COMP
203 COPPER, TOTAL RECOVERABLE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	68	68	UG/L		1/M	COMP
211 CHROMIUM, TOTAL RECOVERABLE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	200	200	UG/L		1/M	COMP
361 IRON, TOTAL RECOVERABLE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	1000	1000	UG/L		1/M	COMP
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15	20	MG/L		1/M	GRAB

Additional Permit Requirements (Outfall 103):
Comments:

PERMITTED FACILITY

Dominion Energy - VA City Hybrid Energy Center
5000 Dominion Blvd, Glen Allen VA 23060
Permit Number: VA0092746
Permit Type: Major Industrial

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

RETURN TO

Department of Environmental Quality
Southwest Regional Office
355-A Deadmore Street, Abingdon VA 24210
(276) 676-4800
NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM AND RETURNING IT.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

BYPASS AND OVERFLOWS		
TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of $32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluid/tape' is not allowed.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces have a requirement or limitation, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading". KG/DAY = Concentration (mg/L) x Flow (MGD) x 3.785 G/D (Grams/Day) = Concentration (mg/L) x Flow (MGD) x 3785
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. For all parameters enter the number of samples which do not comply with the maximum and/or minimum permit requirements in the "reported" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field. Include any Maximum 7-Day Average and Maximum Weekly Average violations in this field. Permittees with continuous pH, or temperature monitoring requirements should consult the permit for what constitutes an exceedance and report accordingly.
7. You are required to sample (at a minimum) according to the Sample Frequencies and Sample Types specified in your permit.
8. Enter the actual frequency of analysis for each parameter (number of times per day, week, month, etc.) in the "reported" space in the column marked "Frequency of Analysis".
9. Enter the actual type of sample (Grab, 8HC, 24HC, etc) collected for each parameter in the "reported" space in the column marked "Sample Type".
10. Enter additional required data or comments in the space marked "additional permit requirements or comments". If additional required data or comments are appended to the DMR, reference appended correspondence in this field.
11. Record the number of bypasses during the month, the total flow in million gallons (MG) and BOD5 in kilograms (KG) in the proper columns in the section marked "Bypasses and Overflows".
12. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator or if the operator in responsible charge of the facility is a licensed operator, the operator's signature and certificate number must be reported in the spaces provided.
13. The principal executive officer then reviews the form and must sign in the space provided and provide a telephone number where he/she can be reached. The final page of the DMR must have an original signature.
14. Send the completed form(s) with original signatures to your Department of Environmental Quality Regional Office by the 10th of each month unless otherwise specified in the permit.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each separate violation by date.
17. If you have any questions, contact the Department of Environmental Quality Regional Office listed on the DMR.

Rec'd 8-20-07

Attachments to Company's Response to Public Staff Data Request 3-16 - Yorktown

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462
(757) 518-2000 Fax (757) 518-2103
www.deq.virginia.gov

L. Preston Bryant, Jr
Secretary of Natural Resources

David K. Paylor
Director

Francis L. Daniel
Regional Director

August 16, 2007

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. J. David Rives
Vice President, Fossil and Hydro
Virginia Electric and Power Company
5000 Dominion Blvd.
Glen Allen,, VA 23060

RE: Reissuance of VPDES Permit No. VA0004103
Dominion Yorktown Power Station
Yorktown, VA 23692

Dear Mr. Rives:

The enclosed effluent limitations and monitoring requirements for the above referenced permit have been approved. Additionally, enclosed is a copy of the fact sheet page that describes public participation in the permitting process. Please replace the page in fact sheet that you received with the draft permit with this page.

Your permit is also enclosed. In accordance with the permit, you are required to submit monitoring reports to the following address:

Department of Environmental Quality (DEQ)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

The reporting forms are included with the permit **(DMRs/Attachment A)**. You will be responsible for obtaining additional copies of the reporting forms. The first report (DMR) is due for the month of September 2007 by October 10, 2007. The first report (DMR) is due for the fourth quarter of 2007 by January 10, 2008. The first report (DMR) is due for the first semiannual period of 2008 by July 10, 2008. The first report (DMR) is due for the annual period of 2008 by January 10, 2009.

If development at the site will disturb a total of 1 or more acres and will also result in a point source discharge of storm water from the site, you will also be required to obtain coverage under the storm water general permit for construction activities prior to site development. If you believe that you will need a permit contact the Virginia Department of Conservation and Recreation, Mr. Lee Hill, Storm Water Management Program Director, telephone (804) 786-3998.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under Section 62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in Section 1.23(b) of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

This facility has Class III licensed wastewater operator requirements.

Note that DEQ has launched an e-DMR program that allows you to submit the effluent data electronically. If you are interested in participating in this program please visit the follow website for details:

http://www.deq.virginia.gov/water/edmrfaq.html

If you have any additional questions, please do not hesitate to contact Mr. Mark Sauer at 757-518-2105.

Sincerely,

James R. McConathy
Water Permits Manager

JRM/

cc: DEQ - OWPP, TRO File
EPA - Region III (3WP12)

Encl: Permit No. VA0004103
Revised Fact Sheet Page

The VDH reviewed the application and waived their right to comment and/or object on the adequacy of the draft permit.

The DSS did not comment on the application/draft permit since there is no domestic wastewater discharge.

EPA COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the U.S. Environmental Protection Agency and noted how resolved.

EPA has no objections to the adequacy of the draft permit.

ADJACENT STATE COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from an adjacent state and noted how resolved.

Not Applicable.

OTHER AGENCY COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from any other agencies (e.g., VIMS, VMRC, DGIF, etc.) and noted how resolved.

Not Applicable.

OTHER COMMENTS RECEIVED FROM RIPARIAN OWNERS/CITIZENS ON DRAFT PERMIT: Document any comments received from other sources and note how resolved.

The application and draft permit have received public notice in accordance with the VPDES Permit Regulation, and no comments were received.

PUBLIC NOTICE INFORMATION: Comment Period: Start Date July 11, 2007
End Date August 10, 2007

Persons may comment in writing or by e-mail to the DEQ on the proposed reissuance of the permit within 30 days from the date of the first notice. Address all comments to the contact person listed below. Written or e-mail comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The Director of the DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing and a brief explanation of how the requestor's interests would be directly and adversely affected by the proposed permit action.

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting Mark H. Sauer at: Department of Environmental Quality (DEQ), Tidewater Regional Office, 5636 Southern Boulevard, Virginia Beach, VA 23462. Telephone: 757-518- 2105 E-mail: mhsauer@deq.virginia.gov

Following the comment period, the Board will make a determination regarding the proposed issuance/reissuance/modification. This determination will become effective, unless the Director grants a public hearing. Due notice of any public hearing will be given.

30. **ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:**

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462
(757) 518-2000 Fax (757) 518-2103
www.deq.virginia.gov

L. Preston Bryant, Jr
Secretary of Natural Resources

David K. Paylor
Director

Francis L. Daniel
Regional Director

Permit No: VA0004103
Effective Date: August 16, 2007
Expiration Date: August 15, 2012

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in this permit.

Owner: Virginia Electric and Power Company
Facility Name: Dominion - Yorktown Power Station
City: Yorktown
County: York
Facility Location: 1600 Waterview Road, Yorktown, VA 23692

The owner is authorized to discharge to the following receiving stream:

Stream: See Attachment I
River Basin:
River Subbasin:
Section:
Class:
Special Standards:

The authorized discharge shall be in accordance with this cover page, Part I - Effluent Limitations and Monitoring Requirements and Part II - Conditions Applicable To All VPDES Permits, as set forth herein.

Maria R. Nold
Deputy Regional Director

August 16, 2007
Date

Permit No. VA0004103

ATTACHMENT I

Outfall No(s).	Receiving Stream
001, 002, 005, 006, 007, 008, 011, 014, 015, 016, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 202, 203, 204, 205	York River Basin: York River Subbasin: N/A Section: 1 Class: II Special Standards: a, NEW-17
009 and 010	Unnamed tributary to York River Basin: York River Subbasin: N/A Section: 1 Class: II Special Standards: a, NEW-17
003, 004 and 017	Unnamed tributary to Chisman Creek to Chesapeake Bay Basin: Chesapeake Bay, Atlantic Ocean and Small Coastal Subbasin: N/A Section: 2d Class: III Special Standards: None
012 and 013	Unnamed tributary to Wormley Creek to York River Basin: York River Subbasin: N/A Section: 1 Class: II Special Standards: a, NEW-17

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 001 (condenser cooling water - outfall pumps discharge).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Day	Calculated
pH (S.U.)	NA	NA	6.0	9.0	2/Month	Calculated [d]
Total Residual Chlorine (mg/l) [a]	0.021	NA	NA	0.026	2/Month	Calculated [d]
Total Phosphorus (mg/l)	2.0	NA	NA	NA	2/Month	Calculated [d]
Temperature (°C)	NA	NA	NA	[b]	1/Year	[b]
Heat Rejection (BTU/Hr) [c]	NA	NA	NA	$57.41 \times 10^{(8)}$	Continuous	Recorded

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

NA = Not Applicable.
NL = No limitation, however, reporting is required.
[a] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements.
[b] See Part I.B.15. for thermal mixing zone requirements.
[c] See Part I.B.14. Heat rejection is the total heat rejected for outfalls 001 and 002 at the facility.
[d] Samples shall be collected at outfall 002 and shall be calculated for outfall 001 based on these samples.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 002 (condenser cooling water - weir discharge. Sampling point shall be downstream of the weir just prior to discharge under Waterview road).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Day	Calculated
pH (S.U.)	NA	NA	6.0	9.0	2/Month	Grab
Total Residual Chlorine (mg/l) [a]	0.021	NA	NA	0.026	2/Month	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	2/Month	Grab
Temperature (°C)	NA	NA	NA	[b]	1/Year	[b]
Heat Rejection (BTU/Hr) [c]	NA	NA	NA	NL	Continuous	Recorded

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

NA = Not Applicable.
NL = No limitation, however, reporting is required.
[a] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements.
[b] See Part I.B.15. for thermal mixing zone requirements.
[c] See Part I.B.14.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 003 and 004 (storm water from a regulated industrial activity; 003 - ash landfill sediment pond #1; 004 - ash landfill sediment pond #2).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
pH (S.U.)	NA	NA	6.0	9.0	1/Month	Grab
Total Suspended Solids (mg/l)	30	NA	NA	100	1/Month	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	1/6 Months	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/Month	Grab

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/6 Months= In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 005 (unit 1 condenser backwash); and, 006 (unit 2 condenser backwash).

Such discharges shall be limited and monitored by the permittee as specified below:

THESE OUTFALLS SHALL CONTAIN BACKWASH WATER FROM UNIT 1 CONDENSER (OUTFALL 005) AND THE UNIT 2 CONDENSER (OUTFALL 006) ONLY. NO PROCESS WASTEWATER SHALL BE DISCHARGED FROM THESE OUTFALLS. NO MONITORING OR REPORTING IS REQUIRED.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 007 (intake pump(s) maintenance dewatering); 016 (intake pump(s) leak collection pit); 017 (hydrostatic relief system under the center pond of the ash landfill); 105 (outfall pumps maintenance dewatering); 202 (outfall pumps pit sump); 203 (outfall pumps pit sump backup) and, 204 (outfall pumps cooling and seal water).

   Such discharges shall be limited and monitored by the permittee as specified below:

   THESE OUTFALLS SHALL CONTAIN DISCHARGE FROM THE DEWATERING OF THE INTAKE PUMPS (007), INTAKE PUMP(S) LEAK COLLECTION PIT (016), HYDROSTATIC RELIEF SYSTEM (017), OUTFALL PUMPS MAINTENANCE DEWATERING (105), OUTFALL PUMPS PIT SUMP (202), OUTFALL PUMPS PIT SUMP BACKUP (203), AND OUTFALL PUMPS COOLING AND SEAL WATER (204) ONLY. NO PROCESS WASTEWATER SHALL BE DISCHARGED FROM THESE OUTFALLS. NO MONITORING OR REPORTING IS REQUIRED.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 008 and 014 (storm water from a regulated industrial activity; 008 - unit 3 area, ash handling areas; 014 - service road for intake cooling water pump).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS [a]	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NL	NA	NA	NL	1/3 Months	Estimate [b]
pH (S.U.)	NA	NA	NL	NL	1/Year	Grab [c]
Total Suspended Solids (mg/l) [d]	NA	NA	NA	NL	1/Year	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	1/Year	Grab
Total Petroleum Hydrocarbons (mg/l)[d]	NA	NA	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [d] [e]	NA	NA	NA	NL	1/3 Months	Grab
Dissolved Nickel (ug/l) [d] [e]	NA	NA	NA	NL	1/3 Months	Grab
Dissolved zinc (ug/l) [d] [e]	NA	NA	NA	NL	1/3 Months	Grab

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

NA = Not Applicable.
NL = No limitation, however, reporting is required.
1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).
1/Year = Between January 1 and December 31.
[a] See Part I.D.1. for sampling methodology and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab samples shall be taken within the first hour but no later than three hours from the initiation of a discharge.
[d] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements.
[e] See Part I.D for storm water evaluation requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
3. Outfalls 008 and 014 are determined to be substantially identical. Sampling shall be conducted at outfall 008 only, and the results shall be reported on the DMR's for outfalls 008 and 014.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 009, 013, 112 and 205 (storm water outfalls not associated with a regulated industrial activity).

   Such discharges shall be limited and monitored by the permittee as specified below:

   THESE OUTFALLS SHALL CONTAIN ONLY STORM WATER NOT ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS. NO MONITORING OR REPORTING IS REQUIRED.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 010 (storm water from a regulated industrial activity - warehouse area).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NL	1/Year	Estimate [b]
pH (S.U.)	NL	NL	1/Year	Grab [c]
Total Suspended Solids (mg/l)[d]	NA	NL	1/Year	Grab
Total Petroleum Hydrocarbons (mg/l)[d]	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [d]	NA	NL	1/Year	Grab

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

NL = No limit, however, reporting is required
NA = Not Applicable

1/Year = Between January 1 and December 31.

[a] See Part I.D.1. for sampling methodology and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab samples shall be taken within the first hour but no later than 24 hours from the initiation of a discharge.
[d] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 011 (storm water from regulated industrial areas - switchyard, coal handling areas, maintenance, security and coal unloading buildings and access roads) and 012 (storm water from a regulated industrial activity - area containing section of ash haul road).

   Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NL	1/Year	Estimate [b]
pH (S.U.)	NL	NL	1/Year	Grab [c]
Total Suspended Solids (mg/l)[d]	NA	NL	1/Year	Grab
Total Petroleum Hydrocarbons (mg/l)[d]	NA	NL	1/Year	Grab

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

NL = No limit, however, reporting is required
NA = Not Applicable

1/Year = Between January 1 and December 31.

[a] See Part I.D.1. for sampling methodology and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab samples shall be taken within the first hour but no later than 24 hours from the initiation of a discharge.
[d] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 101 (ash pond).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
Total Suspended Solids (mg/l)	30	NA	NA	100	1/Month	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/Month	Grab
Enterococci (N/CML)	NA	NA	NA	NL	1/Year	Grab

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/Year = Between January 1 and December 31.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 102 (metals cleaning waste pond).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS[a]	
	Monthly Average		Weekly Average	Minimum	Maximum		Frequency	Sample Type
Flow (MGD)	NL		NA	NA	NL		1/Month	Measured
Total Suspended Solids (mg/l; lbs/day)	30	175	NA	NA	100	584	1/Month	Grab
Oil and Grease (mg/l; lbs/day)	15	88	NA	NA	20	117	1/Month	Grab
Total Copper (ug/l; lbs/day)	1000	6	NA	NA	1000	6	1/Month	Grab
Total Iron (ug/l; lbs/day)	1000	6	NA	NA	1000	6	1/Month	Grab

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

NA = Not Applicable.
NL = No limitation, however, reporting is required.

[a] Unless otherwise approved, the sample shall be collected at the point where the recirculation line discharges into the lime mixing basin. No wastewater shall be added to the basin after the sample is collected prior to the discharge for the sample period.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 103 (storm water from a regulated industrial activity - coal pile; discharge from a manually-operated holding basin).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NA	NL	1/6 Months	Estimate
Total Suspended Solids (mg/l) [a]	NA	50	1/6 Months	Grab
Dissolved Copper (ug/l) [b]	NA	NL	1/Year	Grab
Dissolved Nickel (ug/l) [b]	NA	NL	1/Year	Grab
Dissolved Arsenic (ug/l) [b]	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [b]	NA	NL	1/Year	Grab

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

NL = No limit, however, reporting is required
NA = Not Applicable

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).

1/Year = Between January 1 and December 31.

[a] See Part I.B.12. for Overflow of Untreated Coal Pile Runoff from a 10-Year/24-Hour Storm.
[b] See Parts I.B.5. and I.B.6. for quantification levels.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 104 (coal fly ash leachate tank).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
Dissolved Copper (ug/l) [a]	NA	NA	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [a]	NA	NA	NA	NL	1/Year	Grab

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/Year = Between January 1 and December 31.

[a] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 106 (storm water from a regulated industrial activity - units 1 and 2 area).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a][c]	
	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NL	1/Year	Estimate [b]
Total Suspended Solids (mg/l)[d]	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [d]	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [d]	NA	NL	1/Year	Grab

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

NL = No limit, however, reporting is required
NA = Not Applicable

1/Year = Between January 1 and December 31.

[a] See Part I.D.1. for sampling methodology and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab samples shall be taken within the first hour but no later than 24 hours from the initiation of a discharge.
[d] See Parts I.B.5. and I.B.6. for quantification levels.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 107, 108 and 110 (storm water associated with regulated industrial activity).

   Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a][c]	
	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NL	1/Year	Estimate [b]
Total Suspended Solids (mg/l)[d]	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [d]	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [d]	NA	NL	1/Year	Grab

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

NL = No limit, however, reporting is required
NA = Not Applicable

1/Year = Between January 1 and December 31.

[a] See Part I.D.1. for sampling methodology and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab samples shall be taken within the first hour but no later than 24 hours from the initiation of a discharge.
[d] See Parts I.B.5. and I.B.6. for quantification levels.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

3. These outfalls are determined to be substantially identical. Sampling shall be conducted at outfall 108 only, and the results shall be reported on the DMR's for outfalls 107, 108 and 110.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 109, 015 (storm water outfalls associated with a regulated industrial activity).

   Such discharges shall be limited and monitored by the permittee as specified below:

   THESE OUTFALLS SHALL CONTAIN ONLY STORM WATER ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS. NO MONITORING OR REPORTING IS REQUIRED.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s) serial number(s): 111 (intake screen wash)

Such discharges shall be limited and monitored by the permittee as specified below:

THIS OUTFALL SHALL CONTAIN DISCHARGE FROM THE WASHING OF INTAKE SCREENS ONLY. NO OTHER WASTEWATER SHALL BE DISCHARGED FROM THIS OUTFALL. NO MONITORING OR REPORTING IS REQUIRED. SEE PART I.B.9. FOR ADDITIONAL REQUIREMENTS.

NA = Not Applicable.
NL = No limitation, however, reporting is required.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

B. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1. Permit Reopeners

a. Water Quality Standards Reopener

Should effluent monitoring indicate the need for any water quality based limitation, this permit may be modified or, alternatively, revoked and reissued to incorporate appropriate limitations.

b. Nutrient Enriched Waters Reopener

This permit shall be modified or, alternatively, revoked and reissued to include new or alternative nutrient limitations should the State Water Control Board adopt nutrient standards for the Chesapeake Bay and tributary river basins, or if a future water quality regulation, statute, or water quality management plan requires new or alternative nutrient control.

c. Total Maximum Daily Load (TMDL) Reopener

The Board may modify or, alternatively, revoke and reissue this permit if any applicable standard(s) promulgated under section 303(d) of the Clean Water Act or as a result of the development of a TMDL would result in more stringent limits or other requirements in this permit.

2. Licensed Operator Requirement

The permittee shall employ or contract at least one wastewater works operator who holds a current wastewater license appropriate for the permitted facility. A Class III licensed operator is required for this facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the Board for Waterworks and Wastewater Works Operators. The permittee shall notify the Department in writing whenever he is not complying, or has grounds for anticipating he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

3. Operations and Maintenance (O & M) Manual

An Operations and Maintenance (O & M) Manual shall be developed and submitted to the DEQ Tidewater Regional Office for approval. This O&M Manual shall include descriptions of the treatment works operations and its contributing sources, and practices necessary to achieve compliance with this permit. The Manual shall specifically address: treatment system operation; routine and emergency maintenance; wastewater and/or storm water collection, treatment and disposal/discharge; permitted outfall locations; effluent sampling and preservation procedures; laboratory testing, analysis and recording of results; submittal and retention of all records, reporting forms and testing results; and a listing of the personnel responsible for the above activities. Also included in the Manual shall be a list of facility, local and state emergency contacts; procedures for reporting and responding to any spills/overflows/

treatment works upsets; a copy of the VPDES/VPA permit; and copies of all reporting forms. Once approved, this Manual shall become an enforceable condition of this permit. Future changes to the facility must be addressed by the submittal of a revised O & M Manual.

Manual Due: No later than December 31, 2007

4. Notification Levels

The permittee shall notify the Department as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(1) One hundred micrograms per liter (100 ug/l);
(2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
(3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
(4) The level established by the Board.

b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(1) Five hundred micrograms per liter (500 ug/l);
(2) One milligram per liter (1 mg/l) for antimony;
(3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application.
(4) The level established by the Board.

5. Quantification Levels Under Part I.A.

a. The maximum quantification levels (QL) shall be as follows:

Effluent Characteristic	Quantification Level
Arsenic	55 ug/l
Chlorine	0.1 mg/l
Copper	7.2 ug/l
Nickel	60 ug/l
Zinc	52 ug/l
TSS	1.0 mg/l
TPH	5.0 mg/l

b. The permittee may use any approved method which has a QL equal to or lower than the (QL) listed in I.5.a above. The QL is defined as the lowest concentration used to calibrate a

measurement system in accordance with the procedures published for the method.

6. Compliance Reporting Under Part I.A.

a. Daily Maximum - Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in Part I.B.5. shall be determined as follows: All data below the quantification level (QL) listed in Part I.B.5. above shall be treated as zero. All data equal to or above the QL shall be treated as reported. An arithmetic average of the values shall be calculated using all reported data, including the defined zeros, collected for each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL, then the average shall be reported as <QL.

b. Any single datum required shall be reported as "<QL" if it is less than the QL listed in Part. I.B.5. above. Otherwise, the numerical value shall be reported.

c. Where possible, all limit values on the Part I.A. limits page(s) are expressed in two significant figures. As a result, single, trailing zeros occurring after any single digit are significant. Effluent limits of 10 or greater are rounded to two significant whole numbers.

d. The permittee shall report at least the same number of significant figures as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

7. Materials Handling and Storage

Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes and/or other wastes to State waters, except as expressly authorized.

8. Cooling Water and Boiler Additives

a. If at any time during the life of this permit, the permittee decides to treat any non-contact cooling water unit(s) and/or boiler system(s) with chemical additives (with other than those additives currently in use and on file with this office), the following requirements shall be satisfied.

At least thirty (30) days prior to implementing any chemical addition to the cooling water and/or boiler equipment, the permittee shall **notify the Tidewater Regional Office, in writing**, of the following:

(1) The chemical additives to be employed and their purpose. Provide to the staff for review, a Material Safety Data Sheet (MSDS) for each proposed additive;

(2) Schedule of additive usage; and,

(3) Wastewater treatment and/or retention to be provided during the use of additives.

b. Should the addition of treatment chemicals significantly alter the characteristics of the effluent from the cooling water and/or boiler unit(s) or their usage becomes persistent or continuous, this permit shall be modified or, alternatively, revoked and reissued to include appropriate limitations or conditions.

9. Screen Washing

Screen cleanings must be performed using water only, no detergents, solvents or cleaners. All material removed from the screens shall be collected by manual cleaning to prevent materials from entering the discharge point to the outfall. Proper structural and non-structural BMP's must be employed to prevent solids or other materials from discharging through the outfall.

10. Section 316(b) Phase II Requirements

As required by §316(b) of the Clean Water Act, the location, design, construction and capacity of the cooling water intake structures for the permitted facility shall reflect the best technology available (BTA) for minimizing adverse environmental impact. Within one year of the effective date of this permit the permittee shall submit biological data collected consistent with that described in the February, 2005 Proposal for Information Collection. This permit may be reopened to address compliance with Clean Water Act §316(b) through requirements including but not limited to those specified in EPA regulations in 40 CFR Part 125 Subpart J when finalized.

11. Polychlorinated Biphenyl (PCB) Compounds

There shall be no discharge of polychlorinated biphenyl compounds from this source in amounts equal to or greater than detectable by EPA test methods specified in Federal Register 40 CFR Part 136 Guidelines for Establishing Test Procedures for the Analysis of Pollutants.

12. Overflow of Untreated Coal Pile Runoff from a 10-Year/24-Hour Storm

Any untreated overflow from facilities designed, constructed and operated to treat the volume of coal pile runoff which results from a 10-year/24-hour rainfall event shall not be subject to the total

suspended solids limitation of 50 mg/l maximum concentration for outfall 103, at any time.

13. Collected Debris for Trash Intake Racks

Debris collected on intake trash racks shall not be returned to the receiving stream.

14. Weir Discharge

During unit 3 operations, the permittee may discharge a portion (less than the capacity of one discharge pump) of the condenser cooling water over the discharge canal weir rather than through the diffuser. This will serve to balance flows (intake vs. discharge) in the condenser cooling water system. Virginia Power will include on the monthly Discharge Monitoring Report for outfall 002 the maximum hourly heat rejected (BTU/hr) over the weir during the month. Total heat rejection for the facility shall be reported as one figure for outfall 001. During times when only unit 1 and/or unit 2 are operating this restriction does not apply.

15. Mixing Zone Requirements

The permittee shall comply with State Water Quality Standards outside the approved thermal mixing zone. For the purposes of this permit, the approved mixing zone is defined as that portion of the York River extending between the Coast Guard Terminal Station pier (37° 13′ 23″ N and 76° 29′ 0″ W) and the Oil Terminal pier (37° 13′ 20″ N; Longitude 76° 25′ 15″ W), bounded on the south by the shoreline, and on the north by an imaginary line extending between the outboard tips of the two piers. A map showing the approved mixing zone is incorporated in this permit. See Attachment B.

Monitoring of this mixing zone shall take place once per year during the month of January or July. The monitoring requirements shall consist of a minimum of two temperature plots, one upstream of the diffuser and one downstream, performed at slack before ebb or slack before flood tide. The excess temperature plots will show three degree Celsius isotherms and will be taken as near to full plant operating conditions as reasonably possible.

Results of the mixing zone survey shall be submitted to DEQ by April 30 for surveys conducted in January and by October 31 for surveys conducted in July of each year.

16. Total Residual Chlorine Discharge Duration

Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day, and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the permittee can demonstrate to the DEQ that the units in a particular location cannot operate at or below this level of chlorination.

C. TOXICS MANAGEMENT PROGRAM (TMP)

1. Biological Monitoring for outfalls 002 and 004

a. In accordance with the schedule in C.2.below, the permittee shall conduct annual toxicity tests for the duration of the permit.

The permittee shall collect a grab sample of final effluent from outfall 002 in the same manner as samples collected for Part I.A. of this permit. The grab sample for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit. Annual acute and chronic tests shall be conducted for outfall 002 using:

48 Hour Static Acute test using **Americamysis bahia**

Chronic Static Renewal 7-day Survival and Growth Test with **Americamysis bahia**

The permittee shall collect a grab sample of final effluent from outfall 004 in accordance with the sampling methodology in Part I.A. of this permit. The grab sample for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit. An annual chronic test shall be conducted for outfall 004. The chronic test to use is:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using **Ceriodaphnia dubia**

b. The acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50}. Express the results as TU_a (Acute Toxic Units) by dividing 100/ LC_{50} for reporting.

The chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and growth. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for reporting. Report the LC50 at 48 hours and the IC25 with the NOEC's in the test report.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

c. In the event that sampling of any of the outfalls is not possible due to the absence of effluent flow during a particular testing period, the permittee shall perform a make-up sample during the next testing period.

d. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of the effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

e. The test dilutions shall be able to determine compliance with the following endpoints:

(1) Acute LC_{50} of 100% equivalent to a TU_a of 1.0

(2) Chronic NOEC of 100% equivalent to a TU_c of 1.0

2. Reporting Schedule for Outfalls 002 and 004

The permittee shall report the results and supply **two** complete copies of the toxicity test reports to the Tidewater Regional Office in accordance with the schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, and all chains of custody. **Attachment A** must be submitted with each complete report. All data shall be submitted within 60 days of the sample date.

(a)	**Conduct first annual TMP test for outfalls 002 and 004 using *Americamysis bahia* for 002 and *Ceriodaphnia dubia* for 004**	**By December 31, 2008**
(b)	**Submit results of all biological tests**	**Within 60 days of the sample date and no later than January 10, 2009**
(c)	**Conduct subsequent annual TMP tests for outfalls 002 and 004**	**By December 31, 2009, 2010, and 2011**
(d)	**Submit subsequent annual biological tests**	**Within 60 days of the sample date and no later than January 10, 2010, 2011 and 2012**

3. Biological Monitoring for outfall 003

a. In accordance with the schedule in C.4.below, the permittee shall conduct quarterly toxicity tests for the duration of the permit.

(1) The permittee shall collect a grab sample of final effluent for acute tests from outfall 003 in the same manner as samples collected for Part I.A. of this permit. The grab samples for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit.

(2) Chronic testing shall be required when a discharge occurs for 8 hours a day or more for three consecutive days; **OR,** when a discharge occurs in each of four consecutive days regardless of the amount/time of discharge in each day. The permittee shall submit monthly operational logs documenting days and times of discharge with the toxicity results.

If required, the permittee shall collect 3 grab samples over a 24 hour period for chronic tests from outfall 003 in accordance with the sampling methodology in Part I.A. of this permit.

Quarterly acute and chronic tests (if required) shall be conducted for outfall 003 using:

48 Hour Static Acute test using **Ceriodaphnia dubia**

Chronic Static Renewal 7-day Survival and Growth Test with **Ceriodaphnia dubia**

b. The acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50}. Express the results as TU_a (Acute Toxic Units) by dividing 100/ LC_{50} for reporting.

The chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and growth. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for reporting. Report the LC50 at 48 hours and the IC25 with the NOEC's in the test report.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

c. In the event that sampling of any of the outfalls is not possible due to the absence of effluent flow during a

particular testing period, the permittee shall perform a make-up sample during the next testing period.

d. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of the effluent toxicity. All toxicity data submitted for outfall 003 will be evaluated at the end of **one year** from the effective date of this permit to determine if a WET limit is needed for this outfall. If a WET limit is needed, the permit may be modified to incorporate the WET limit.

e. The test dilutions shall be able to determine compliance with the following endpoints:

(1) Acute LC_{50} of 100% equivalent to a TU_a of 1.0

(2) Chronic NOEC of 100% equivalent to a TU_c of 1.0

4. Reporting Schedule for Outfall 003

The permittee shall report the results and supply **two** complete copies of the toxicity test reports to the Tidewater Regional Office in accordance with the schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, all chains of custody, and the outfall 003 operational log. **Attachment A** must be submitted with each complete report. All data shall be submitted within 60 days of the sample date.

(a)	**Conduct first quarterly TMP tests for outfall 003 using Ceriodaphnia dubia**	**By December 31, 2008**
(b)	**Submit results of the biological tests**	**Within 60 days of the sample date and no later than January 10, 2009**
(c)	**Conduct subsequent quarterly TMP tests for outfalls 003 using Ceriodaphnia dubia**	**By March 30, June 30, September 30, and December 31 of each year**
(d)	**Submit subsequent quarterly biological tests**	**Within 60 days of the sample date and no later than April 10, July 10, October 10, and January 10 of each year**

D. STORM WATER MANAGEMENT

1. Sampling Methodology for Specific Outfalls 008, 010, 011, 012, 014, 106, 107, 108, 110

The following shall be required when obtaining samples required by Part I.A. of this permit:

a. At the time of sampling, the permittee shall ensure that the effects of tidal influences are kept to an absolute minimum. This can be achieved by:

(1) Sampling at low tide and/or

(2) Sampling at a representative point which has been demonstrated to be free of tidal influences

b. In the event that sampling of an outfall is not possible due to the absence of effluent flow during a particular testing period, the permittee shall provide written notification to DEQ Tidewater Regional Office with the DMR for the month following the period in which samples were to be collected.

2. Storm Water Management Evaluation(Outfalls 008, 011, 012, 014)

The Storm Water Pollution Prevention Plan (SWP3), which is to be developed and maintained in accordance with Part I.D.4 of this permit, shall have a goal of reducing pollutants discharged at all the regulated storm water outfalls.

a. Pollutant Specific Screening

The goal shall place emphasis on reducing, to the maximum extent practicable, the following screening criteria parameters in the outfalls noted below.

OUTFALL NO.	POLLUTANTS
008, 014	dissolved copper, dissolved nickel, dissolved zinc

(outfalls 008 and 014 are considered substantially identical; sampling shall be in accordance with Part I.A. for these outfalls)

b. Toxicity Screening

The permittee shall conduct **annual acute toxicity tests** on outfalls 008 and 011 using grab samples of final effluent. These acute screening tests shall be 48-hour static tests using **Americamysis bahia**, conducted in such a manner and at sufficient dilutions for calculation of a valid LC50.

The permittee shall conduct **annual acute toxicity tests** on outfall 012 using grab samples of final effluent. The acute screening test shall be 48-hour static tests using **Ceriodaphnia dubia** conducted in such a manner and at sufficient dilutions for calculation of a valid LC50.

The tests shall be conducted on a calendar year basis with one copy of all **results and all supporting information results and all supporting information submitted within 60 days of the date that the sample was taken and no later than January 10th of each year. Attachment A shall be submitted with the results.**

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3

If any of the biological screening tests are invalidated, an additional test shall be conducted within thirty (30) days of notification. If there is no discharge during this 30-day period, a sample must be taken during the first qualifying discharge.

c. Sampling methodology for the noted outfalls shall be in accordance with Part I.A. and Part I.D. of this permit. The permittee shall submit the following information **with the results of the toxicity tests.**

(1) The actual or estimated effluent flow at the time of the sampling.

(2) An estimate of the total volume of storm water discharged through each outfall during the discharge event.

(3) The time at which the discharge event began, the time at which the effluent was sampled, and the duration of the discharge event.

d. The effectiveness of the SWP3 will be evaluated via the required monitoring for all parameters listed in Part I.D.2.a. of this permit for the regulated storm water outfalls, including the screening criteria parameters and toxicity screening. Monitoring results which are either above the screening criteria values or, in the case of toxicity, result in an LC_{50} of less than 100% effluent, will not indicate unacceptable values. However, those results will justify the need to reexamine the effectiveness of the SWP3 and any best management practices (BMPs) being utilized for the affected outfalls. In addition, the permittee shall amend the SWP3 whenever there is a change in the facility or its operation which materially increases the potential for activities to result in a discharge of significant amounts of pollutants.

By February 10th of each year, the permittee shall submit to the DEQ Tidewater Regional Office an annual report which includes the pollutant-specific and **a summary** of the biological monitoring data from the outfalls included in this condition along with a summary of any steps taken to modify either the Plan or any BMPs based on the monitoring data.

The first Stormwater Management Evaluation report is due on February 10, 2009.

3. General Storm Water Conditions

a. Sample Type

For all storm water monitoring required in Part I.A. or other applicable sections of this permit, a minimum of one grab sample shall be taken. Unless otherwise specified, all such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge unless specified otherwise in this permit. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken during the first hour of the discharge, and the permittee shall document with the SWP3 a description of why a grab sample during the first 30 minutes was impracticable. If storm water discharges associated with industrial activity commingle with process or nonprocess water, then where practicable permittees must attempt to sample the storm water discharge before it mixes with the nonstorm water discharge.

b. Recording of Results

For each storm event monitored under Part I.A. of this permit, the permittee shall record and retain on site with the SWP3 the following information:

(1) The date and duration (in hours) of the storm event(s) sampled;

(2) The rainfall measurements or estimates (in inches) of the storm event which generated the sampled discharge; and

(3) The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event.

In addition, the permittee shall maintain a monthly log documenting the amount of rainfall received at this facility on a daily basis. This information shall be retained on site with the SWP3.

c. Sampling Waiver

When a permittee is unable to collect storm water samples required in Part I.A. or other applicable sections of this permit within a specified sampling period due to adverse climatic conditions, the permittee shall collect a substitute sample from a separate qualifying event in the next period and submit these data along with the data for the routine sample in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

d. Representative Discharge

When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes substantially identical effluents are discharged, and the DEQ Tidewater Regional Office has approved them as such, the permittee may test the effluent of one of such outfalls and report that the quantitative data also apply to the substantially identical outfall(s) provided that the permittee includes in the SWP3 a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area [(i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)] shall be provided in the plan.

e. Quarterly Visual Examination of Storm Water Quality

Unless another more frequent schedule is established elsewhere within this permit, the permittee shall perform and document a visual examination of a storm water discharge associated with industrial activity from each outfall. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December. The visual examination should be made during daylight hours(e.g., normal working hours).

(1) Examinations shall be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed 1 hour) of when the runoff or snowmelt begins discharging. The examination shall document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well lit area. No analytical tests are required to be performed on the samples. All such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previous measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term.

(2) Visual examination reports must be maintained onsite with the SWP3. The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.

(3) When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may collect a sample of effluent of one of such outfalls and report that the examination data also applies to the substantially identical outfall(s) provided that the permittee includes in the SWP3 a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)) shall be provided in the plan.

(4) When the permittee is unable to conduct the visual examination due to adverse climatic conditions, the permittee must document the reason for not performing the visual examination and retain this documentation

onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

f. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

The discharge of hazardous substances or oil in the storm water discharge(s) from a facility shall be prevented or minimized in accordance with the applicable SWP3 for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an onsite spill. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110 (1998), 40 CFR 117 (1998) or 40 CFR 302 (1998) occurs during a 24-hour period, the permittee is required to notify the Department in accordance with the requirements of Part II.G. of this permit as soon as he or she has knowledge of the discharge. In addition, the storm water pollution prevention plan required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110 (1998), 40 CFR 117 (1998) and 40 CFR 302 (1998) or 62.1-44.34:19 of the Code of Virginia.

g. Allowable Non-Storm Water Discharges

(1). The following non-storm water discharges are authorized by this permit provided the non-storm water component of the discharge is in compliance with Part g.(2), below.

(a) Discharges from fire fighting activities;

(b) Fire hydrant flushings;

(c) Potable water including water line flushings;

(d) Uncontaminated air conditioning or compressor condensate;

(e) Irrigation drainage;

(f) Landscape watering provided all pesticides, herbicides, and fertilizers have been applied in accordance with manufacturer's instructions;

(g) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);

(h) Routine external building wash down which does not use detergents;

(i) Uncontaminated ground water or spring water;

(j) Foundation or footing drains where flows are not contaminated with process materials such as solvents;

(k) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains).

(2). For all regularly-occurring discharges listed in g.(1) above that occur in industrial areas, the Storm Water Pollution Prevention Plan must include:

(a) Identification of each allowable non-storm water source;

(b) The location where the non-storm water is likely to be discharged; and

(c) Descriptions of any BMPs that are being used for each source.

(3). If mist blown from cooling towers is included as one of the allowable non-storm water discharges from the facility, the permittee must specifically evaluate the potential for the discharges to be contaminated by chemicals used in the cooling tower, and must select and implement BMPs to control such discharges so that the levels of cooling tower chemicals in the discharges would not cause or contribute to a violation of an applicable water quality standard.

4. Storm Water Pollution Prevention Plan (SWP3)

A storm water pollution prevention plan (SWP3) shall be developed for the facility. The SWP3 shall be prepared in accordance with good engineering practices. The SWP3 shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the SWP3 shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. The permittee must implement the provisions of the SWP3 as a condition of this permit.

The SWP3 requirements of this permit may be fulfilled by incorporating by reference other plans or documents such as an erosion and sediment control plan, a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act or best management practices (BMP) programs otherwise required for the facility provided that the incorporated plan meets or exceeds the SWP3 requirements of this section. If an erosion and sediment control plan is being incorporated by reference, it shall have been approved by the locality in which the activity is to occur or by another appropriate plan approving authority authorized under the Virginia Erosion and Sediment Control Regulation 4 VAC 50-30-10 et seq. All plans incorporated by reference into the SWP3 become enforceable under this permit.

a. Deadlines for SWP3 Preparation and Compliance

Existing Facilities

The SWP3 which was previously prepared and implemented shall be complied with, and continually updated as needed in accordance with sections b., c., d. and e. below.

(1) Measures That Require Construction

In cases where construction is necessary to implement measures required by the SWP3, the SWP3 shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of the permit. Where a construction compliance schedule is included in the SWP3, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.

b. Signature and SWP3 Review

(1) Signature/Location

The SWP3 shall be signed in accordance with Part II.K. of this permit and be retained onsite at the facility which generates the storm water discharge in accordance with Part II.B. of this permit. For inactive facilities, the SWP3 may be kept at the nearest office of the permittee.

(2) Availability

The permittee shall make the SWP3, annual site compliance inspection report, or other information available to the DEQ upon request.

(3) Required Modifications

The Tidewater Regional Office may notify the permittee at any time that the SWP3 does not meet one or more of the minimum requirements of the permit. Such notification shall identify those provisions of the permit which are not being met by the SWP3, and identify which provisions of the plan require modifications in order to meet the minimum requirements of this permit. Within 60 days of such notification, the permittee shall make the required changes to the SWP3 and shall submit to the DEQ Tidewater Regional Office a written certification that the requested changes have been made.

c. Keeping SWP3s Current

The permittee shall amend the SWP3 whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the potential for the discharge of

pollutants to surface waters of the State or if the SWP3 proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under section d. below, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. New owners shall review the existing SWP3 and make appropriate changes. Amendments to the plan may be reviewed by the Department in the same manner as noted in section b. above.

d. Contents of SWP3

The contents of the SWP3 shall comply with the requirements listed below and those in Part I.D.5. (Facility-specific Storm Water Conditions) of this permit; these requirements are cumulative. The SWP3 shall include, at a minimum, the following items.

(1) Pollution Prevention Team

The SWP3 shall identify a specific individual or individuals within the facility organization as members of a storm water pollution prevention team that are responsible for developing the SWP3 and assisting the facility or plant manager in its implementation, maintenance, and revision. The SWP3 shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's SWP3.

(2) Description of Potential Pollutant Sources

The SWP3 shall provide a description of potential sources which may reasonably be expected to add significant amounts of pollutants to storm water discharges or that may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. The SWP3 shall identify all activities and significant materials which may potentially be significant pollutant sources. The SWP3 shall include, at a minimum:

(a) Drainage

i. A site map indicating an outline of the portions of the drainage area of each storm water outfall within the facility boundaries, each existing structural control measure to reduce pollutants in storm water runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under section (2)(c) below have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas;

loading/unloading areas; locations used for the treatment, storage or disposal of wastes and wastewaters; locations used for the treatment, filtration or storage of water supplies; liquid storage tanks; processing areas; and, storage areas. The map must indicate the outfall locations and the types of discharges contained in the drainage areas of these outfalls.

ii. For each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow, and an identification of the types of pollutants which are likely to be present in the storm water discharges. Factors to consider include: the toxicity of chemicals; quantity of chemicals used, produced or discharged; the likelihood of contact with storm water; and, history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified.

(b) Inventory of Exposed Materials

An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of three years prior to the effective date of this permit and the present; method and location of on-site storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff between the time of three years prior to the effective date of this permit and the present; the location and a description of existing structural and non-structural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives.

(c) Spills and Leaks

A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility after the date of three years prior to the effective date of this permit. Such list shall be updated as appropriate during the term of the permit.

(d) Sampling Data

A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility, including a summary of sampling data collected during the term of this permit.

(e) Risk Identification and Summary of Potential Pollutant Sources

A narrative description of the potential pollutant sources from the following activities: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and, on-site waste disposal practices and wastewater treatment activities to include sludge drying, storage, application or disposal activities. The description shall specifically list any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g., biochemical oxygen demand, total suspended solids, etc.) of concern shall be identified.

(3) Measures and Controls

The permittee shall develop a description of storm water management controls appropriate for the facility and implement these controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls.

(a) Good Housekeeping

Good housekeeping requires the clean and orderly maintenance of areas which may contribute pollutants to storm water discharges. The SWP3 shall describe procedures performed to minimize contact of materials with storm water runoff. Particular attention should be paid to areas where raw materials are stockpiled, material handling areas, storage areas, liquid storage tanks, material handling areas, and loading/unloading areas.

(b) Preventive Maintenance

A preventive maintenance program shall involve: timely inspection and maintenance of storm water management devices (e.g., cleaning oil/water separators, catch basins); inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures which could result in discharges of pollutants to

surface waters; and, appropriate maintenance of such equipment and systems.

(c) Spill Prevention and Response Procedures

Areas where potential spills may occur which can contribute pollutants to storm water discharges, and their accompanying drainage points shall be identified clearly in the SWP3. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the SWP3 and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to the appropriate personnel.

(d) Inspections

In addition to or as part of the comprehensive site compliance evaluation required under section d.(4) below, qualified facility personnel who are familiar with the industrial activity, the Best Management Practices (BMPs) and the SWP3 shall be identified to inspect designated equipment and areas of the facility at appropriate intervals. The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained with the pollution prevention plan.

(e) Employee Training

Employee training programs shall inform personnel responsible for implementing activities identified in the SWP3 or otherwise responsible for storm water management at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. The SWP3 shall identify periodic dates for such training.

(f) Recordkeeping and Internal Reporting Procedures

A description of incidents such as spills, or other discharges, along with other information describing the

quality and quantity of storm water discharges shall be included in the SWP3. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.

(g) Sediment and Erosion Control

The SWP3 shall identify areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.

(h) Management of Runoff

The SWP3 shall contain a narrative consideration of the appropriateness of traditional storm water management practices [practices other than those which control the generation or source(s) of pollutants] used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The SWP3 shall provide for the implementation and maintenance of measures that the permittee determines to be reasonable and appropriate. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices; reuse of collected storm water (such as for a process or as an irrigation source); inlet controls (such as oil/water separators); snow management activities; infiltration devices; wet detention/retention devices; or, other equivalent measures.

(4) Comprehensive Site Compliance Evaluation

Qualified facility personnel who are familiar with the industrial activity, the BMPs and the SWP3 shall conduct site compliance evaluations at appropriate intervals specified in the SWP3, but, in no case less than once a year during the permit term. Such evaluations shall include the following.

(a) Areas contributing to a storm water discharge associated with industrial activity, such as material storage, handling and disposal activities, shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed.

Structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the SWP3 shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the SWP3, such as spill response equipment, shall be made.

(b) Based on the results of the evaluation, the description of potential pollutant sources identified in the SWP3 in accordance with section d.(2) above and pollution prevention measures and controls identified in the SWP3 in accordance with section d.(3) above shall be revised as appropriate within 2 weeks of such evaluation and shall provide for implementation of any changes to the SWP3 in a timely manner, but in no case more than 12 weeks after the evaluation.

(c) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the SWP3, and actions taken in accordance with section (4)(b) above shall be made and retained as part of the SWP3 for at least three years from the date of the evaluation. The report shall identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the SWP3 and this permit. The report shall be signed in accordance with Part II.K. of this permit.

(d) Where compliance evaluation schedules overlap with inspections required under section d.(3)(d), the compliance evaluation may be conducted in place of one such inspection.

5. Facility-specific Storm Water Conditions

a. Good housekeeping measures.

(1) Fugitive dust emissions.

The permittee shall describe and implement measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize off-site tracking of coal dust such as installing specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.

(2) Delivery vehicles.

The plan must describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee shall consider the following:

(a) Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and

(b) Develop procedures to deal with leakage/spillage from vehicles or containers.

(3) Fuel oil unloading areas.

The plan must describe measures that prevent or minimize contamination of precipitation/surface runoff from fuel oil unloading areas. At a minimum the permittee must consider using the following measures, or an equivalent:

(a) Use of containment curbs in unloading areas;

(b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

(c) Use of spill and overflow protection (e.g., drip pans, drip diapers, and/or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).

(4) Chemical loading/unloading areas.

The permittee must describe and implement measures that prevent or minimize the contamination of precipitation/surface runoff from chemical loading/unloading areas. At a minimum the permittee must consider using the following measures (or their equivalents):

(a) Use of containment curbs at chemical loading/unloading areas to contain spills;

(b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

(c) Covering chemical loading/unloading areas, and storing chemicals indoors.

(5) Miscellaneous loading/unloading areas.

The permittee shall describe and implement measures that prevent or minimize the contamination of storm water runoff from loading and unloading areas. The permittee shall consider the following, at a minimum (or their equivalents): covering the loading area; grading, berming, or curbing around the loading area to divert runon; or locating the loading/unloading equipment and vehicles so that leaks are contained in existing containment and flow diversion systems.

(6) Liquid storage tanks.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from aboveground liquid storage tanks. At a minimum the permittee must consider employing the following measures (or their equivalents):

(a) Use of protective guards around tanks;

(b) Use of containment curbs;

(c) Use of spill and overflow protection ; and

(d) Use of dry cleanup methods.

(7) Large bulk fuel storage tanks.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from large bulk fuel storage tanks. At a minimum the permittee must consider employing containment berms (or its equivalent). The permittee shall also comply with applicable state and federal laws, including Spill Prevention Control and Countermeasures (SPCC).

(8) Spill reduction measures.

The permittee shall describe and implement measures to reduce the potential for an oil/chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all aboveground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(9) Oil bearing equipment in switchyards.

The permittee shall describe and implement measures to prevent or minimize contamination of surface runoff from oil bearing equipment in switchyard areas. The permittee shall consider the use of level grades and gravel surfaces to retard flows and limit the spread of spills, and the collection of storm water runoff in perimeter ditches.

(10) Residue hauling vehicles.

All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the container body. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds must be repaired as soon as practicable.

(11) Ash loading areas.

The permittee shall describe and implement procedures to reduce or control the tracking of ash/residue from ash loading areas where practicable, clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water before departure of each loaded vehicle.

(12) Areas adjacent to disposal ponds or landfills.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee must develop procedures to:

(a) Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and

(b) Reduce ash residue on exit roads leading into and out of residue handling areas.

(13) Landfills, scrapyards, surface impoundments, open dumps, general refuse sites.

The plan must address and include appropriate BMPs for landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(14) Vehicle maintenance activities.

For vehicle maintenance activities performed on the plant site, the permittee shall use the applicable BMPs outlined in Sector P of 9 VAC 25-151-10 et seq.

(15) Material storage areas.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay down areas). The permittee shall consider the use of the following measures (or their equivalents): flat yard grades; runoff collection in graded swales or ditches; erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins); covering lay down areas; storing materials indoors; and covering materials temporarily with polyethylene, polyurethane, polypropylene, or hypalon. Storm water runon may be minimized by constructing an enclosure or building a berm around the area.

(16) Comprehensive site compliance evaluation.

As part of the evaluation, qualified facility personnel shall inspect the following areas on a monthly basis: coal handling areas, loading/unloading areas, switchyards, fueling areas, bulk storage areas, ash handling areas, areas adjacent to disposal ponds and landfills, maintenance areas, liquid storage tanks, and long term and short term material storage areas.

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692
FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********		0	1/DAY	CALC
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU	0	2/M	CALC
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	2.0	*********	MG/L	0	2/M	CALC
080 TEMPERATURE, WATER (DEG. C)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	[b]	C	0	1/YR	CALC
082 HEAT REJ**8	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	57.41	BTU/H	*********	*********	*********		0	CONT	REC
165 CL2, INST RES MAX	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	0.021	0.026	MG/L	0	2/M	CALC
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL's - Cl = 0.1 mg/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692
FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	002
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/DAY	CALC
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		2/M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	2.0	*********	MG/L		2/M	GRAB
080 TEMPERATURE, WATER (DEG. C)	REPORTD		*********		*********	*********					
	REQRMNT	********	*********		*********	*********	[b]	C		1/YR	CALC
082 HEAT REJ**8	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	BTU/H	*********	*********	*********			CONT	REC
165 CL2, INST RES MAX	REPORTD	*********			*********						
	REQRMNT	*********	********		*********	0.021	0.026	MG/L		2/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL's - CL = 0.1 mg/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692
FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	003
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		1/M	GRAB
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30	100	MG/L		1/M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	2.0	*********	MG/L		1/6M	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15	20	MG/L		1/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692
FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	004
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		6.0	*********	9.0	SU		1/M	GRAB
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30	100	MG/L		1/M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	2.0	*********	MG/L		1/6M	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15	20	MG/L		1/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692

FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	008
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MG	*********	*********	*********			1/3M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	2.0	*********	MG/L		1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVE	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB
445 NICKEL, DISSOLVED (UG/L AS NI)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL's - TSS = 1.0 mg/l; Cu = 7.2 ug/l; Ni = 60 mg/l; Zn = 52 mg/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692
FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	010
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********		0	1/YR	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU	0	1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L	0	1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L	0	1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L	0	1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL's - TSS = 1.0 mg/l; TPH = 5.0 mg/l; Cu = 7.2 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692

FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	011
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********		0	1/YR	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL		0	1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL		0	1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL		0	1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL's - TSS = 1.0 mg/l; TPH = 5.0 mg/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATR AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692

FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	012
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********		0	1/YR	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU	0	1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L	0	1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L	0	1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL's - TSS = 1.0 mg/l; TPH = 5.0 mg/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692
FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	014
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MG	*********	*********	*********			1/3M	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	2.0	*********	MG/L		1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB
445 NICKEL, DISSOLVED (UG/L AS NI)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
Ql's - TSS = 1.0 mg/l; TPH = 5.0 mg/l; Cu = 7.2 ug/l; Ni = 60 ug/l; Zn = 52 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692

FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	101
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/M	EST
004 TSS	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	30	100	MG/L		1/M	GRAB
140 ENTEROCOCCI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	N/CML		1/YR	GRAB
500 OIL & GREASE	REPORTD	*********	*********		*********						
	REQRMNT	*********	*********		*********	15	20	MG/L		1/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692

FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004103	102
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 08/16/2007

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/M	MEAS
004 TSS	REPORTD				*********						
	REQRMNT	175	584	LBS/D	*********	30	100	MG/L		1/M	GRAB
019 COPPER, TOTAL (AS CU)	REPORTD				*********						
	REQRMNT	6	6	LBS/D	*********	1000	1000	UG/L		1/M	GRAB
031 IRON, TOTAL (AS FE)	REPORTD				*********						
	REQRMNT	6	6	LBS/D	*********	1000	1000	UG/L		1/M	GRAB
500 OIL & GREASE	REPORTD				*********						
	REQRMNT	88	117	LBS/D	*********	15	20	MG/L		1/M	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include finea up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692

FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	103
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MGD	*********	*********	*********			1/6M	EST
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	50	MG/L		1/6M	GRAB
438 ARSENIC, DISSOLVED (UG/L AS AS)	REPORTD				*********	*********					
	REQRMNT	********	********		*********	*********	NL	UG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
445 NICKEL, DISSOLVED (UG/L AS NI)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL's - Cu = 7.2 ug/l; Ni = 60 ug/l; As = 55 ug/l; Zn = 52 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692

FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	104
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD				*********	*********	*********				
	REQRMNT	NL	NL	MGD	*********	*********	*********			1/M	EST
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL's - Cu = 7.2 ug/l; Zn = 52 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692
FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	106
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/YR	EST
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
Ql's - TSS = 1.0 mg/l; Cu = 7.2 ug/l; Zn = 52 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692

FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	107
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/YR	EST
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
	REPORTD										
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	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Major 08/16/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692

FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

VA0004103	108
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/YR	EST
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
Ql's - TSS = 1.0 mg/l; Cu = 7.2 ug/l; Zn = 52 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692
FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004103	110
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 08/16/2007

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

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	REQRMNT	*********	NL	MG	*********	*********	*********			1/YR	EST
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/YR	GRAB
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

THIS REPORT IS REQUIRED BY LAW (33 U. S. C. § 1318 40 CFR 122.60). FAILURE TO REPORT OR FAILURE TO REPORT TRUTHFULLY CAN RESULT IN CIVIL PENALTIES NOT TO EXCEED $10,000 PER DAY OF VIOLATION: OR IN CRIMINAL PENALTIES NOT TO EXCEED $25,000 PER DAY OF VIOLATION OR BY IMPRISONMENT FOR NOT MORE THAN FIVE YEARS, OR BOTH.

GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces are blank or a limitation appears, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and, if appropriate, maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading". KG/DAY = Concentration(mg/l) x Flow(MGD) x 3.785.
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. Enter the number of samples which do not comply with the maximum and /or minimum permit requirements in the "reported" space in the column marked "No. Ex.".
7. Enter the actual frequency of analysis for each parameter (number of times per day, week, month) in the "reported" space in the column marked "Frequency of Analysis".
8. Enter the actual type of sample collected for each parameter in the "reported" space in the column marked "Sample Type".
9. Enter additional required data or comments in the space marked "additional permit requirements or comments".
10. Record the number of bypasses during the month, the total flow in million gallons and BOD5 in kilograms in the proper columns in the section marked "Bypasses and Overflows".
11. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator, the operator's certificate number should be reported in the space provided.
12. The principal executive officer should then review the form and sign in the space provided and provide a telephone number where he/she can be reached.
13. You are required to sample at the frequency and type indicated in your permit.
14. Send the completed form to your Dept. of Environmental Quality Regional Office by the 10th of each month.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each violation by date.
17. If you have any questions, contact the Dept. of Environmental Quality Regional Office.

ATTACHMENT A

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

TMP SUBMITTAL COVER SHEET

This form shall be completed for, and submitted with, each report of toxicity testing.

THIS REPORT SHALL CONTAIN THE FOLLOWING ITEMS	
	COMPLETED CHAIN OF SAMPLE CUSTODY
	CERTIFICATE OF ANALYSIS(ES)
	COMPLETE REPORT OF TOXICITY TESTING

VPDES PERMIT NUMBER: VA0004103

FACILITY NAME: Virginia Power-Yorktown

FACILITY LOCATION: 1600 Waterview Road, Yorktown VA 23692

OUTFALL NUMBER (circle one): 002 003 004 008 011 012

REPORTING PERIOD (ex: 2007 Annual, 1st Qtr. 2007): _____

SAMPLE TYPE (circle one): Stormwater Wastewater

WASTEWATER SOURCE(S) (if process wastewater, provide a brief source description):

_____

_____

STORM EVENT INFORMATION (if applicable):

Sample Date and Time of Collection: _____

Time discharge began: _____

Storm event measurement (inches): _____

Time between sampling and
last measurable storm event (hours): _____

ADDITIONAL INFORMATION:
If this sample is a **make-up** sample or a **retest**, indicate which category of test and the reporting period this submittal applies to:

Report Type: (i.e., makeup, retest, etc.) _____

Reporting Period: _____

If the required TMP sample(s) were not collected provide a reason/rationale:

_____

CERTIFICATION:

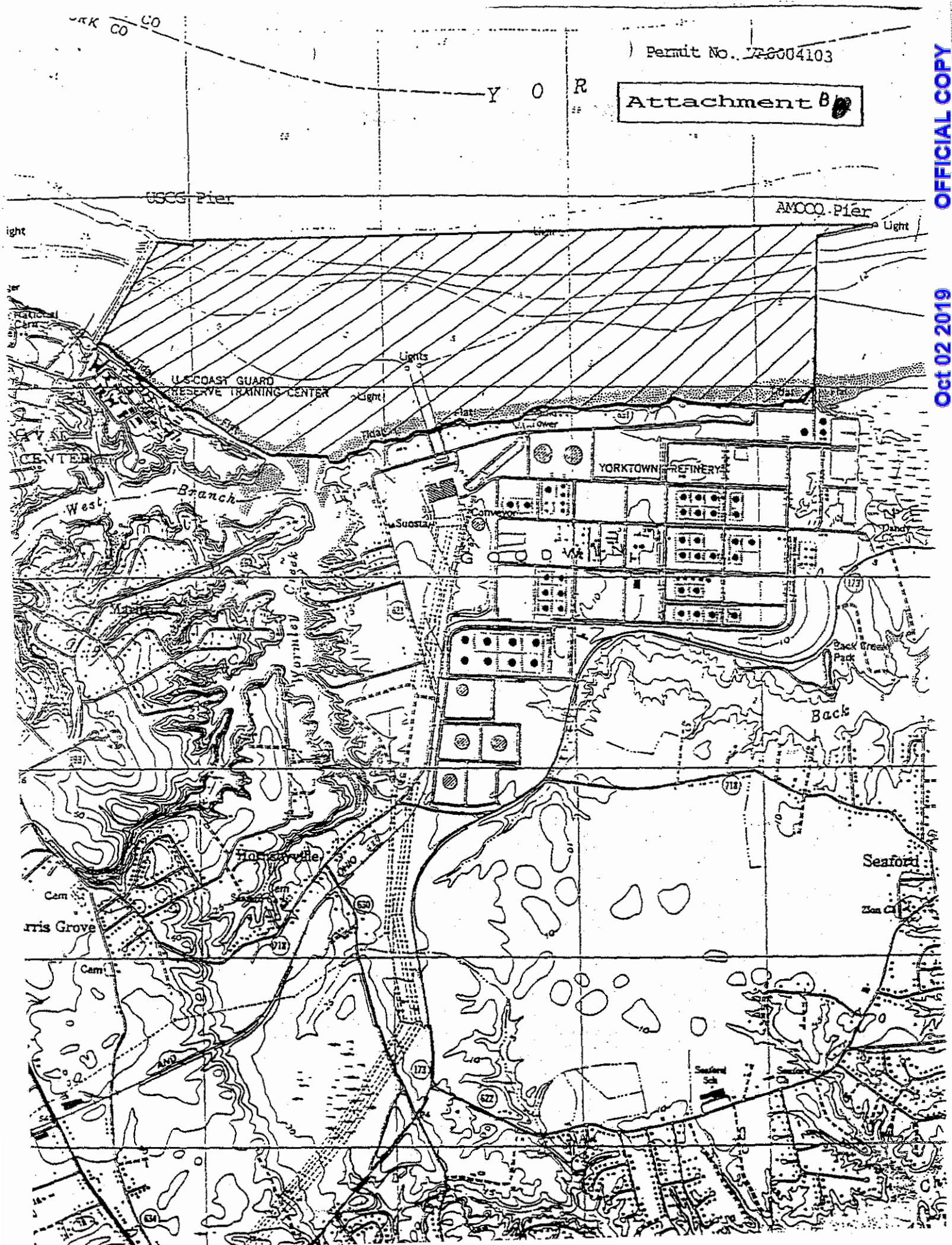
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

_____

Signature, printed name and title of Principal Officer or Authorized Agent / Date

Permit No. VA0004103

Attachment B



CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring.

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.

2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.

3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records.

1. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;

   b. The individual(s) who performed the sampling or measurements;

   c. The date(s) and time(s) analyses were performed;

   d. The individual(s) who performed the analyses;

   e. The analytical techniques or methods used; and

   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results.

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Department of Environmental Quality
   Tidewater Regional Office
   5636 Southern Boulevard
   Virginia Beach, VA 23462

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information.

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges.

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or

2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges.

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;

2. The cause of the discharge;

3. The date on which the discharge occurred;

4. The length of time that the discharge continued;

5. The volume of the discharge;

6. If the discharge is continuing, how long it is expected to continue;

7. If the discharge is continuing, what the expected total volume of the discharge will be; and

8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges.

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;

2. Breakdown of processing or accessory equipment;

3. Failure or taking out of service some or all of the treatment works; and

4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:

   a. Any unanticipated bypass; and

   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:

   a. A description of the noncompliance and its cause;

   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and

   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the Department's Regional Office at (757) 518-2000 (voice) or (757) 518-2103 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes.

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

      (1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or

      (2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit,

including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements.

1. Applications. All permit applications shall be signed as follows:

a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part II K 1;

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

   c. The written authorization is submitted to the Department.

3. Changes to Authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification:

   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. <u>Duty to Comply.</u>

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with

certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit.

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law.

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges.

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.

2. Notice

a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.

b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.

3. Prohibition of bypass.

a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:

(1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required under Part II U 2.

b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset.

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. An upset occurred and that the permittee can identify the cause(s) of the upset;

b. The permitted facility was at the time being properly operated;

c. The permittee submitted notice of the upset as required in Part II I; and

d. The permittee complied with any remedial measures required under Part II S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry.

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions.

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits.

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;

   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2 b.

Z. Severability.

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462

Doug Domenech
Secretary of Natural Resources

David K. Paylor
Director

(757) 518-2000 Fax (757) 518-2009
www.deq.virginia.gov

Maria R. Nold
Regional Director

July 24, 2013

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Virginia Electric and Power Company
C.D. Holley, Vice President
Fossil & Hydro System Operations
5000 Dominion Blvd.
Glen Allen, VA 23060

RE: Modification of VPDES Permit No. VA0004103
Dominion Yorktown Power Station
Yorktown, VA

Dear Mr. Holley:

The modification of the above referenced permit has been approved.

Your permit is also enclosed. In accordance with the permit, you are required to submit monitoring reports to the following address:

Department of Environmental Quality (DEQ)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

The modified reporting forms for Outfall 008 and Outfall 014 are included with the permit. You will be responsible for obtaining additional copies of the reporting forms. The first report (DMR) is due for the fourth quarter of 2013 by January 10, 2014. All other reporting forms were sent with the reissuance of the permit dated August 16, 2012.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under §§ 62.1 - 44.16, 62.1 - 44.17, and 62.1 - 44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition

requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in 9VAC25-230-130 (Procedural Rule No. 1 – Petition for formal hearing). In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

DEQ has launched an e-DMR program that allows you to submit the effluent data electronically. We anticipate that in the near future all permittees will be participants in the e-DMR program. There are many benefits to both DEQ and the permittee when e-DMR is utilized for submissions:

1) Fewer revisions for data since the e-DMR program automatically flags omissions before the data is submitted;
2) Cost savings on postage, copying, and paper;
3) No concerns about using the most current DMR – e-DMR refreshes the required parameters automatically when changes are needed;
4) Submittals can be made on a timelier basis; and
5) Electronic signatures from multiple people are allowed and e-DMR can be accessed from multiple computer locations.

We ask that you apply for e-DMR participation now so that we will be able to complete the application process when your permit is effective. The following website provides details and our regional e-DMR administrator Debbie Kay, phone 757-518-2127, Deborah.kay@deq.virginia.gov can also assist you:

http://www.deq.virginia.gov/water/edmrfaq.html

If you have any additional questions, please do not hesitate to contact Melinda Woodruff at 757-518-2174.

Sincerely,

Mark H. Sauer
Water Permit Manager

MHS/

cc: DEQ - OWPP, TRO File
EPA - Region III (3WP12)

Encl: Permit No. VA0004103
Modified Fact Sheet and Revised Fact Sheet Pages

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692
FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004103	008
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 07/08/2013

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

OFFICIAL COPY

Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/YR	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	2.0	*********	MG/L		1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVE	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QL's - TSS = 1.0 mg/l; TPH = 5.0 mg/l; Cu = 7.2 ug/l; Zn = 52 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Yorktown Power Station
ADDRESS 1600 Waterview Rd
Yorktown VA 23692
FACILITY LOCATION 1600 Waterview Rd, Yorktown, VA 23692

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0004103	014
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM				TO			

Industrial Major 07/08/2013

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

OFFICIAL COPY

Oct 02 2019

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTD	*********			*********	*********	*********				
	REQRMNT	*********	NL	MG	*********	*********	*********			1/YR	EST
002 PH	REPORTD	*********	*********			*********					
	REQRMNT	*********	*********		NL	*********	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*********	*********		*********		*********				
	REQRMNT	*********	*********		*********	2.0	*********	MG/L		1/YR	GRAB
257 PETROLEUM HYDROCARBONS, TOTAL RECOVI	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	MG/L		1/YR	GRAB
442 COPPER, DISSOLVED (UG/L AS CU)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB
448 ZINC, DISSOLVED (AS ZN) (UG/L)	REPORTD	*********	*********		*********	*********					
	REQRMNT	*********	*********		*********	*********	NL	UG/L		1/3M	GRAB
	REPORTD										
	REQRMNT									*******	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
Ql's - TSS = 1.0 mg/l; TPH = 5.0 mg/l; Cu = 7.2 ug/l; Ni = 60 ug/l; Zn = 52 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of $32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluid/tape' is not allowed.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces have a requirement or limitation, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading".
   KG/DAY = Concentration (mg/L) x Flow (MGD) x 3.785 G/D (Grams/Day) = Concentration (mg/L) x Flow (MGD) x 3785
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. For all parameters enter the number of samples which do not comply with the maximum and/or minimum permit requirements in the "reported" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field. Include any Maximum 7-Day Average and Maximum Weekly Average violations in this field. Permittees with continuous pH, or temperature monitoring requirements should consult the permit for what constitutes an exceedance and report accordingly.
7. You are required to sample (at a minimum) according to the Sample Frequencies and Sample Types specified in your permit.
8. Enter the actual frequency of analysis for each parameter (number of times per day, week, month, etc.) in the "reported" space in the column marked "Frequency of Analysis".
9. Enter the actual type of sample (Grab, 8HC, 24HC, etc) collected for each parameter in the "reported" space in the column marked "Sample Type".
10. Enter additional required data or comments in the space marked "additional permit requirements or comments". If additional required data or comments are appended to the DMR, reference appended correspondence in this field.
11. Record the number of bypasses during the month, the total flow in million gallons (MG) and BOD5 in kilograms (KG) in the proper columns in the section marked "Bypasses and Overflows".
12. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator or if the operator in responsible charge of the facility is a licensed operator, the operator's signature and certificate number must be reported in the spaces provided.
13. The principal executive officer then reviews the form and must sign in the space provided and provide a telephone number where he/she can be reached. Every page of the DMR must have an original signature.
14. Send the completed form(s) with original signatures to your Department of Environmental Quality Regional Office by the 10th of each month unless otherwise specified in the permit.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each separate violation by date.
17. If you have any questions, contact the Department of Environmental Quality Regional Office listed on the DMR.

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462
(757) 518-2000 Fax (757) 518-2009
www.deq.virginia.gov

Doug Domenech
Secretary of Natural Resources

David K. Paylor
Director

Maria R. Nold
Regional Director

Permit No: VA0004103
Effective Date: November 14, 2012
Modification Date: July 24, 2013
Expiration Date: November 13, 2017

AUTHORIZATION TO DISCHARGE UNDER THE

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this cover page, and Parts I and II of this permit, as set forth herein.

Owner: Virginia Electric and Power Company
Facility Name: Dominion - Yorktown Power Station
City: Yorktown
County: York
Facility Location: 1600 Waterview Road, Yorktown, VA 23692

The owner is authorized to discharge to the following receiving stream:

Stream: See Attachment I
River Basin:
River Subbasin:
Section:
Class:
Special Standards:

Maria R. Nold

July 24, 2013
Date

Permit No. VA0004103

ATTACHMENT I

Outfall No(s).	Receiving Stream
001, 002, 005, 006, 007, 008, 014, 015, 016, Internal Outfalls: (101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 202, 203, 204, 205)	York River Basin: York River Subbasin: N/A Section: 1 Class: II Special Standards: a
009 and 010	Unnamed tributary to York River Basin: York River Subbasin: N/A Section: 1 Class: II Special Standards: a
003, 004 and 017	Unnamed tributary to Chisman Creek Basin: Chesapeake Bay, Atlantic Ocean and Small Coastal Subbasin: N/A Section: 2d Class: III Special Standards: None
012 and 013	Unnamed tributary to Wormley Creek Basin: York River Subbasin: N/A Section: 1 Class: II Special Standards: a

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 001 (Condenser cooling water - outfall pumps discharge; internal outfalls 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 112).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Day	Calculated
pH (S.U.)	NA	NA	6.0	9.0	2/Month	Calculated [d]
Total Residual Chlorine (mg/l)[a]	0.021	NA	NA	0.026	2/Month	Calculated [d]
Total Phosphorus (mg/l)	2.0	NA	NA	NA	1/Month	Calculated [d]
Total Nitrogen, Intake (mg/l)[e]	NL	NA	NA	NA	1/6 Months	Calculated [d]
Total Nitrogen (mg/l)[e]	NL	NA	NA	NA	1/6 Months	Calculated [d]
Temperature (°C)	NA	NA	NA	[b]	1/Year	[b]
Heat Rejection (BTU/HR) [c]	NA	NA	NA	$57.41 \times 10^{(8)}$	Continuous	Recorded

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31)
1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.
[b] See Part I.B.15. for Thermal Mixing Zone requirements.
[c] See Part I.B.14. Heat rejection is the total heat rejected for outfalls 001 and 002 at the facility.
[d] Samples shall be collected at outfall 002 and shall be calculated for outfall 001 based on these samples.
[e] Total Nitrogen is the sum of Total Kjeldahl Nitrogen (TKN), Nitrate-Nitrogen (NO3-N) plus Nitrite-Nitrogen (NO2-N) and shall be derived from the results of those tests.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 002 (Condenser cooling water - weir discharge. Sampling Point shall be downstream of the weir just prior to discharge under Waterview Road; internal outfalls 101, 102, 103, 104, 106, 107, 108, 109, 110, 111, 112, 202, 203, 204, and 205).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Day	Calculated
pH (S.U.)	NA	NA	6.0	9.0	2/Month	Grab
Total Residual Chlorine (mg/l)[a]	0.021	NA	NA	0.026	2/Month	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	1/Month	Grab
Total Nitrogen, Intake (mg/l)[d]	NL	NA	NA	NA	1/6 Months	Grab
Total Nitrogen (mg/l)[d]	NL	NA	NA	NA	1/6 Months	Grab
Temperature (°C)	NA	NA	NA	[b]	1/Year	[b]
Heat Rejection (BTU/HR) [c]	NA	NA	NA	NL	Continuous	Recorded
Total Suspended Solids (mg/l)[a]	NA	NA	NA	NL	1/Year	Grab
Dissolved Copper (ug/l)[a]	NA	NA	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l)[a]	NA	NA	NA	NL	1/Year	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.
1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31)
1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.
[b] See Part I.B.15. for Thermal Mixing Zone requirements.
[c] See Part I.B.14.
[d] Total Nitrogen is the sum of Total Kjeldahl Nitrogen (TKN), Nitrate-Nitrogen (NO3-N) plus Nitrite-Nitrogen (NO2-N) and shall be derived from the results of those tests.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 003 and 004 (Storm water from the ash landfill sediment ponds, valved - 003 pond #1 and truck washing activities; 004 pond #2).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
pH (S.U.)	NA	NA	6.0	9.0	1/Month	Grab
Total Suspended Solids (mg/l)	30	NA	NA	100	1/Month	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/Month	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	1/6 Months	Grab
Total Nitrogen (mg/l)[a]	NL	NA	NA	NA	1/6 Months	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] Total Nitrogen is the sum of Total Kjeldahl Nitrogen (TKN), Nitrate-Nitrogen (NO3-N) plus Nitrite-Nitrogen (NO2-N) and shall be derived from the results of those tests.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 005 (unit 1 condenser backwash); and 006 (unit 2 condenser backwash).

   Such discharges shall be limited and monitored by the permittee as specified below:

   THESE OUTFALLS SHALL CONTAIN BACKWASH WATER FROM UNIT 1 CONDENSER (OUTFALL 005) AND THE UNIT 2 CONDENSER (OUTFALL 006) ONLY. NO PROCESS WASTEWATER SHALL BE DISCHARGED FROM THESE OUTFALLS. NO MONITORING OR REPORTING IS REQUIRED.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 007 (Intake pump(s) maintenance dewatering); 016 (Intake pump(s) leak collection pit); 017 (hydrostatic relief system under the center pond of the ash landfill); 105 (outfall pumps maintenance dewatering); 202 (outfall pumps pit sump); 203 (outfall pumps pit sump backup); 204 (outfall pumps cooling and seal water).

   Such discharges shall be limited and monitored by the permittee as specified below:

   THESE OUTFALLS SHALL CONTAIN DISCHARGE FROM THE DEWATERING OF THE INTAKE PUMPS (007); INTAKE PUMP(S) LEAK COLLECTION PIT (016); HYDROSTATIC RELIEF SYSTEM UNDER THE CENTER POND OF THE ASH LANDFILL(017); OUTFALL PUMPS MAINTENANCE DEWATERING (105); OUTFALL PUMPS PIT SUMP (202); OUTFALL PUMPS PIT SUMP BACKUP (203); AND OUTFALL PUMPS COOLING AND SEAL WATER (204) ONLY. NO PROCESS WASTEWATER SHALL BE DISCHARGED FROM THESE OUTFALLS. NO MONITORING OR REPORTING IS REQUIRED.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 008 and 014 (Regulated storm water runoff from an industrial activity area; 008 - unit 3 area, ash handling areas; 014 - service road for intake cooling water pump).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS [a]	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NL	NA	NA	NL	1/Year	Estimate[b]
pH (S.U.)	NA	NA	NL	NL	1/Year	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	1/Year	Grab
Total Suspended Solids (mg/l)[c]	NA	NA	NA	NL	1/Year	Grab
TPH (mg/l)[c]	NA	NA	NA	NL	1/Year	Grab
Dissolved Copper (ug/l)[c][d]	NA	NA	NA	NL	1/3 Months	Grab
Dissolved Zinc (ug/l) [c][d]	NA	NA	NA	NL	1/3 Months	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.
1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).
1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D. (STORM WATER MANAGEMENT CONDITIONS) for additional storm water sampling and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.
TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.
[d] See Part I.D. for Storm Water Evaluation requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
3. Outfalls 008 and 014 are determined to be substantially identical. Sampling shall be conducted at outfall 008 only, and the results shall be reported on the DMR's for outfalls 008 and 014.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 009 and 013 (storm water outfalls not associated with a regulated industrial activity).

   Such discharges shall be limited and monitored by the permittee as specified below:

   THESE OUTFALLS SHALL CONTAIN ONLY STORM WATER NOT ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS. NO MONITORING OR REPORTING IS REQUIRED.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 010 (storm water from a regulated industrial activity - warehouse area).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NL	1/Year	Estimate [b]
pH (S.U.)	NL	NL	1/Year	Grab
Total Suspended Solids (mg/l)[c]	NA	NL	1/Year	Grab
TPH (mg/l)[c]	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [c]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D. (STORM WATER MANAGEMENT CONDITIONS) for additional storm water sampling and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.
TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 012 (storm water from a regulated industrial activity - area containing section of ash haul road).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NL	1/Year	Estimate [b]
pH (S.U.)	NL	NL	1/Year	Grab
Total Suspended Solids (mg/l)[c]	NA	NL	1/Year	Grab
TPH (mg/l)[c]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D. (STORM WATER MANAGEMENT CONDITIONS) for additional storm water sampling and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.
TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 101 (ash ponds).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
Total Suspended Solids (mg/l)	30	NA	NA	100	1/Month	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/Month	Grab
Enterococci (N/CML)	NA	NA	NA	NL	1/Year	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 102 (metals cleaning basin).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS [a]	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Measured
Total Suspended Solids (mg/l)	30	NA	NA	100	1/Month	Grab
Total Suspended Solids (lbs/day)	175	NA	NA	584	1/Month	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/Month	Grab
Oil and Grease (lbs/day)	88	NA	NA	117	1/Month	Grab
Total Copper (ug/l)	1000	NA	NA	1000	1/Month	Grab
Total Copper (lbs/day)	6	NA	NA	6	1/Month	Grab
Total Iron (ug/l)	1000	NA	NA	1000	1/Month	Grab
Total Iron (lbs/day)	6	NA	NA	6	1/Month	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] Unless otherwise approved, the sample shall be collected at the point where the recirculation line discharges into the lime mixing basin. No wastewater shall be added to the basin after the sample is collected prior to the discharge for the sample period.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 103 (storm water from a regulated industrial activity, coal handling areas, switchyard, and coal pile runoff).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NA	NL	1/6 Months	Estimate
Total Suspended Solids (mg/l)[a]	NA	50	1/6 Months	Grab
Dissolved Copper (ug/l)[b]	NA	NL	1/Year	Grab
Dissolved Nickel (ug/l) [b]	NA	NL	1/Year	Grab
Dissolved Arsenic (ug/l)[b]	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l)[b]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).
1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.B.12. for Overflow of Untreated Coal Pile Runoff from a 10-Year/24-Hour Storm.
[b] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 104 (coal fly ash leachate tank).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
Dissolved Copper (ug/l)[a]	NA	NA	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l)[a]	NA	NA	NA	NL	1/Year	Grab

NA = Not Applicable.
NL = No limitation, however, reporting is required.

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 015 (storm water outfalls associated with a regulated industrial activity).

Such discharges shall be limited and monitored by the permittee as specified below:

THESE OUTFALLS SHALL CONTAIN ONLY STORM WATER ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS. NO MONITORING OR REPORTING IS REQUIRED.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 111 (intake screen wash).

Such discharges shall be limited and monitored by the permittee as specified below:

THIS OUTFALL SHALL CONTAIN DISCHARGE FROM THE WASHING OF INTAKE SCREENS ONLY. NO OTHER WASTEWATER SHALL BE DISCHARGED FROM THIS OUTFALL. NO MONITORING OR REPORTING IS REQUIRED. SEE PART I.B.9. FOR ADDITIONAL REQUIREMENTS.

B. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1. Permit Reopeners

a. Water Quality Standards Reopener

Should effluent monitoring indicate the need for any water quality based limitation, this permit may be modified or, alternatively, revoked and reissued to incorporate appropriate limitations.

b. Total Maximum Daily Load (TMDL) Reopener

This permit shall be modified or, alternatively, revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

2. Licensed Operator Requirement

The permittee shall employ or contract at least one Class III licensed wastewater works operator for this facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the State Water Control Board for Waterworks and Wastewater Works Operators. The permittee shall notify the Tidewater Regional Office in writing whenever he is not complying, or has grounds for anticipating he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

3. Operations & Maintenance (O&M) Manual Requirements

The permittee shall review the existing O&M Manual and notify the DEQ Regional Office in writing, that it is still accurate and complete. If the O&M Manual is no longer accurate and complete, a revised O&M Manual shall be submitted for approval to the DEQ Regional Office. The permittee shall maintain an accurate, approved O&M Manual for the treatment works and operate the treatment works in accordance with the approved O&M Manual. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

a. Treatment works design and operation, routine preventative maintenance of the units within the treatment system, critical spare parts inventory and record keeping;
b. Procedures for measuring and recording the duration and volume of treated wastewater discharged;
c. Techniques to be employed in the collection, preservation and analysis of effluent samples.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of this permit. Noncompliance with the O&M manual shall be deemed a violation of the permit.

Letter/Revised Manual Due: No later than 120 days from the effective date of the permit.

4. Notification Levels

The permittee shall notify the Department as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(1) One hundred micrograms per liter (100 ug/l);
(2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
(3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
(4) The level established by the State Water Control Board.

b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(1) Five hundred micrograms per liter (500 ug/l);
(2) One milligram per liter (1 mg/l) for antimony;
(3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application.
(4) The level established by the State Water Control Board.

5. Quantification Levels Under Part I.A.

a. The maximum quantification levels (QL) shall be as follows:

Effluent Characteristic	Quantification Level
TSS	1.0 mg/l
Arsenic	55 ug/l
Chlorine	0.1 mg/l
Copper	7.2 ug/l
Nickel	60 ug/l
Zinc	52 ug/l
TPH	5.0 mg/l

b. The permittee may use any approved method which has a QL equal to or lower than the (QL) listed in I.B.5.a above. The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method.

6. Compliance Reporting Under Part I.A.

a. Monthly Average -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.B.5.a shall be determined as follows: All data below the quantification level (QL) listed in Part I.A above shall be treated as zero. All data equal to or above the QL listed in Part I.A above shall be treated as it is reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, for the month. This arithmetic average shall be reported on the DMR as calculated. If all data are below the QL, then the average shall be reported as <QL.

b. Daily Maximum (industrials) -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in Part I.B.5. shall be determined as follows: All data below the quantification level (QL) listed in Part I.B.5. above shall be treated as zero. All data equal to or above the QL shall be treated as reported. An arithmetic average of the values shall be calculated using all reported data, including the defined zeros, collected for each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL, then the average shall be reported as <QL.

c. Any single datum required shall be reported as "<QL" if it is less than the QL listed in Part I.B.5. above. Otherwise, the numerical value shall be reported.

d. Where possible, all limit values on the Part I.A. limits page(s) are expressed in two significant figures. As a result, single, trailing zeros occurring after any

single digit are significant. Effluent limits of 10 or greater are rounded to two significant whole numbers, with the exception that loading limits are expressed as whole numbers.

e. The permittee shall report at least the same number of significant figures as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

7. Materials Handling and Storage

Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes and/or other wastes to State waters, except as expressly authorized.

8. Cooling Water and Boiler Additives

a. If at any time during the life of this permit, the permittee decides to treat any non-contact cooling water unit(s) and/or boiler system(s) with chemical additives [other than those additives currently in use and on file with the DEQ Tidewater Regional Office], the following requirements shall be satisfied.

At least thirty (30) days prior to implementing any chemical addition to the cooling water and/or boiler equipment, the permittee shall **notify the DEQ Tidewater Regional Office, in writing**, of the following:

(1) The chemical additives to be employed and their purpose. Provide to the staff for review, a Material Safety Data Sheet (MSDS) for each proposed additive;

(2) Schedule of additive usage; and,

(3) Wastewater treatment and/or retention to be provided during the use of additives.

b. Should the addition of treatment chemicals significantly alter the characteristics of the effluent from the cooling water and/or boiler unit(s) or their usage becomes persistent or continuous, this permit shall be

modified or, alternatively, revoked and reissued to include appropriate limitations or conditions.

9. Screen Washing

Screen cleanings must be performed using water only, no detergents, solvents or cleaners. All material removed from the screens shall be collected by manual cleaning to prevent materials from entering the discharge point to the outfall. Proper structural and nonstructural BMP's must be employed to prevent solids or other materials from discharging through the outfall.

10. Section 316(b) Phase II Requirements

As required by §316(b) of the Clean Water Act, the location, design, construction and capacity of the cooling water intake structures for the permitted facility shall reflect the best technology available (BTA) for minimizing adverse environmental impact. This permit may be reopened to address compliance with Clean Water Act §316(b) through requirements including but not limited to those specified in EPA regulations in 40 CFR Part 125 Subpart J when finalized.

11. Poly Chlorinated Biphenyl (PCB) Compounds

There shall be no discharge of PCB compounds such as those commonly used for transformer fluid. Compliance with this requirement will be determined using EPA test method 608 (as referenced in 40 CFR Part 136).

12. Overflow of Untreated Coal Pile Runoff from a 10-Year/24-Hour Storm - Outfall 103

Any untreated overflow from facilities designed, constructed and operated to treat the volume of coal pile runoff which results from a 10-year/24-hour rainfall event shall not be subject to the total suspended solids limitation of 50 mg/l maximum concentration for outfall 103, at any time.

13. Collected Debris for Trash Intake Racks

Debris collected on intake trash racks shall not be returned to the receiving stream.

14. Weir Discharge

During unit 3 operations, the permittee may discharge a portion (less than the capacity of one discharge pump) of the condenser cooling water over the discharge canal weir rather than through the diffuser. This will serve to balance flows (intake vs. discharge) in the condenser cooling water system. Virginia Power will include on the monthly Discharge

Monitoring Report for outfall 002 the maximum hourly heat rejected (BTU/hr) over the weir during the month. Total heat rejection for the facility shall be reported as one figure for outfall 001. During times when only unit 1 and/or unit 2 are operating this restriction does not apply.

15. Mixing Zone Requirements

The permittee shall comply with State Water Quality Standards outside the approved thermal mixing zone. For the purposes of this permit, the approved mixing zone is defined as that portion of the York River extending between the Coast Guard Terminal Station pier (37° 13′ 23″ N and 76° 29′ 0″ W) and the Oil Terminal pier (37° 13′ 20″ N; Longitude 76° 25′ 15″ W), bounded on the south by the shoreline, and on the north by an imaginary line extending between the outboard tips of the two piers. A map showing the approved mixing zone is incorporated in this permit. See Attachment B.

Monitoring of this mixing zone shall take place once per year during the month of January or July. The monitoring requirements shall consist of a minimum of two temperature plots, one upstream of the diffuser and one downstream, performed at slack before ebb or slack before flood tide. The excess temperature plots will show three degree Celsius isotherms and will be taken as near to full plant operating conditions as reasonably possible.

Results of the mixing zone survey shall be submitted to DEQ by April 30 for surveys conducted in January and by October 31 for surveys conducted in July of each year.

16. Total Residual Chlorine Discharge Duration

Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day, and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the permittee can demonstrate to the DEQ that the units in a particular location cannot operate at or below this level of chlorination.

C. TOXICS MANAGEMENT PROGRAM (TMP)

1. Biological Monitoring for outfalls 002 and 004

a. In accordance with the schedule in C.2. below, the permittee shall conduct annual toxicity tests for the duration of the permit.

The permittee shall collect a grab sample of final effluent from outfall 002 in accordance with the sampling methodology in Part I.A. of this permit. The grab sample for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit. Annual acute and chronic tests shall be conducted for outfall 002 using:

48 Hour Static Acute test using **Americamysis bahia**

Chronic Static Renewal 7-day Survival and Growth Test with **Americamysis bahia**

The permittee shall collect a grab sample of final effluent from outfall 004 in accordance with the sampling methodology in Part I.A. of this permit. The grab sample for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit. An annual chronic test shall be conducted for outfall 004. The chronic test to use is:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using **Ceriodaphnia dubia**

b. The acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50}. Express the results as TU_a (Acute Toxic Units) by dividing 100/ LC_{50} for reporting.

The chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and growth or reproduction. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for reporting. Report the LC50 at 48 hours and the IC25 with the NOEC's in the test report.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

c. In the event that sampling of any of the outfalls is not possible due to the absence of effluent flow during a particular testing period, the permittee shall perform a make-up sample during the next testing period.

d. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of the effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

e. The test dilutions shall be able to determine compliance with the following endpoints:

(1) Acute LC_{50} of 100% equivalent to a TU_a of 1.0

(2) Chronic NOEC of 100% equivalent to a TU_c of 1.0

2. Reporting Schedule

The permittee shall report the results and supply **one** complete copy of the toxicity test reports to the Tidewater Regional Office in accordance with the schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, and all chains of custody. **Attachment A** must be submitted with each complete report. All data shall be submitted within 60 days of the sample date.

(a)	**Conduct first annual TMP test for outfalls 002 using Americamysis bahia and for 004 using Ceriodaphnia dubia**	**By December 31, 2013**
(b)	**Submit results of all biological tests**	**Within 60 days of the sample date and no later than January 10, 2014**
(c)	**Conduct subsequent annual TMP tests for outfalls 002 and 004**	**By December 31, 2014, 2015, and 2016**
(d)	**Submit subsequent annual biological tests**	**Within 60 days of the sample date and no later than January 10, 2015, 2016 and 2017**

3. Biological Monitoring for Outfall 003

a. In accordance with the schedule in C.4.below, the permittee shall conduct semi-annual toxicity tests for the duration of the permit.

(1) The permittee shall collect a grab sample of final effluent for acute tests from outfall 003 in the same manner as samples collected for Part 1.A of this permit. The grab samples for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit.

(2) Chronic testing shall be required when the discharge is continuous for 8 hours or more a day for three consecutive days **OR** when the discharge occurs for four consecutive days regardless of the amount/time of discharge. The permittee shall submit monthly operational logs documenting days and times of discharge with the toxicity results.

If required, the permittee shall collect 3 grab samples over a 24 hour period for chronic tests from outfall 003 in accordance with the sampling methodology in Part I.A. of this permit.

Semi-annual acute and chronic (if required) tests shall be conducted for outfall 003 using:

48 Hour Static Acute test using **Ceriodaphnia dubia**

Chronic 3-Brood Static Renewal Survival and Reproduction Test using **Ceriodaphnia dubia**

b. The acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50}. Express the results as TU_a (Acute Toxic Units) by dividing 100/ LC_{50} for reporting.

The chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for reporting. Report the LC50 at 48 hours and the IC25 with the NOEC's in the test report.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

c. In the event that sampling of any of the outfalls is not possible due to the absence of effluent flow during a particular testing period, the permittee shall perform a make-up sample during the next testing period.

d. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of the effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

e. The test dilutions shall be able to determine compliance with the following endpoints:

(1) Acute LC_{50} of 100% equivalent to a TU_a of 1.0

(2) Chronic NOEC of 100% equivalent to a TU_c of 1.0

4. Reporting Schedule

The permittee shall report the results and supply **one** complete copy of the toxicity test reports to the Tidewater Regional Office in accordance with the schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, all chains of custody, and the outfall 003 operational log. **Attachment A** must be submitted with each complete report. All data shall be submitted within 60 days of the sample date.

(a)	**Conduct first semi-annual TMP tests for outfall 003 using Ceriodaphnia dubia**	**By June 30, 2013**
(b)	**Submit results of the biological tests**	**Within 60 days of the sample date and no later than July 10, 2013**
(c)	**Conduct subsequent semi-annual TMP tests for outfalls 003 using Ceriodaphnia dubia**	**By December 31 and June 30 each year**
(d)	**Submit subsequent semi-annual biological tests**	**Within 60 days of the sample date and no later than January 10 and July 10 of each year**

D. STORM WATER MANAGEMENT CONDITIONS

1. Sampling Methodology for Specific Outfalls 008, 010, 012, and 014

The following shall be required when obtaining samples required by Part I.A. of this permit:

a. At the time of sampling, the permittee shall ensure that the effects of tidal influences are kept to an absolute minimum. This can be achieved by:

(1) Sampling at low tide and/or

(2) Sampling at a representative point which has been demonstrated to be free of tidal influences

b. In the event that sampling of an outfall is not possible due to the absence of effluent flow during a particular testing period, the permittee shall provide written notification to DEQ Tidewater Regional Office with the DMR for the month following the period in which samples were to be collected.

2. Storm Water Management Evaluation (Outfalls 008 and 014)

The Storm Water Pollution Prevention Plan (SWP3), which is to be developed and maintained in accordance with Part I.D.4 of this permit, shall have a goal of reducing pollutants discharged at all the regulated storm water outfalls.

a. Pollutant Specific Screening

The goal shall place emphasis on reducing, to the maximum extent practicable, the following screening criteria parameters in the outfalls noted below.

OUTFALL NO.	POLLUTANTS
008, 014	Dissolved copper and dissolved zinc

(Outfalls 008 and 014 are considered substantially identical; sampling shall be in accordance with Part I.A. for these outfalls)

b. Toxicity Screening

The permittee shall conduct **annual acute toxicity tests** on outfall 008 using grab samples of final effluent. These acute screening tests shall be 48-hour static tests using **Americamysis bahia**, conducted in such a manner and at sufficient dilutions for calculation of a valid LC50.

The tests shall be conducted on a calendar year basis with one copy of all **results and all supporting information results and all supporting information submitted within 60 days of the date that the sample was taken and no later than January 10th of each year. Attachment A shall be submitted with the results.**

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3

If any of the biological screening tests are invalidated, an additional test shall be conducted within thirty (30) days of notification. If there is no discharge during this 30-day period, a sample must be taken during the first qualifying discharge.

c. Sampling methodology for the noted outfalls shall be in accordance with Part I.A. and Part I.D. of this permit. The permittee shall submit the following information **with the results of the toxicity tests.**

(1) The actual or estimated effluent flow at the time of the sampling.

(2) An estimate of the total volume of storm water discharged through each outfall during the discharge event.

(3) The time at which the discharge event began, the time at which the effluent was sampled, and the duration of the discharge event.

d. The effectiveness of the SWP3 will be evaluated via the required monitoring for all parameters listed in Part I.D.2.a. of this permit for the regulated storm water outfalls, including the screening criteria parameters and toxicity screening. Monitoring results which are either above the screening criteria values or, in the case of toxicity, result in an LC_{50} of less than 100% effluent, will not indicate unacceptable values. However, those results will justify the need to reexamine the effectiveness of the SWP3 and any best management practices (BMPs) being utilized for the affected outfalls. In addition, the permittee shall amend the SWP3 whenever there is a change in the facility or its operation which materially increases the potential for activities to result in a discharge of significant amounts of pollutants.

By February 10th of each year, the permittee shall submit to the DEQ Tidewater Regional Office an annual report which includes the pollutant-specific and **a**

summary of the biological monitoring data from the outfalls included in this condition along with a summary of any steps taken to modify either the Plan or any BMPs based on the monitoring data.

The first Stormwater Management Evaluation report is due on February 10, 2014.

3. General Storm Water Conditions

a. Sample Type

For all storm water monitoring required in Part I.A. or other applicable sections of this permit, a minimum of one grab sample shall be taken. Unless otherwise specified, all such samples shall be collected from the discharge resulting from a storm event that occurs at least 72 hours from the previously measurable storm event (a "measurable storm event" is defined as a storm event that results in an actual discharge from the site). The required 72-hour storm event interval is waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken during the first three hours of the discharge, and the permittee shall document with the SWP3 a description of why a grab sample during the first 30 minutes was impracticable. If storm water discharges associated with industrial activity commingle with process or nonprocess water, then where practicable permittees must attempt to sample the storm water discharge before it mixes with the nonstorm water discharge.

b. Recording of Results

For each storm event monitored under Part I.A. of this permit, the permittee shall record and retain on site with the SWP3 the following information:

(1) The date and duration (in hours) of the storm event(s) sampled;

(2) The rainfall measurements or estimates (in inches) of the storm event which generated the sampled discharge; and

(3) The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event.

In addition, the permittee shall maintain a monthly log documenting the amount of rainfall received at this facility on a daily basis. This information shall be retained on site with the SWP3.

c. Sampling Waiver

When a permittee is unable to collect storm water samples required in Part I.A. or other applicable sections of this permit within a specified sampling period due to adverse climatic conditions, the permittee shall collect a substitute sample from a separate qualifying event in the next period and submit these data along with the data for the routine sample in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

d. Representative Discharge

When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes substantially identical effluents are discharged, and the DEQ Tidewater Regional Office has approved them as such, the permittee may test the effluent of one of such outfalls and report that the quantitative data also apply to the substantially identical outfall(s) provided that the permittee includes in the SWP3 a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area [(i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)] shall be provided in the plan.

e. Quarterly Visual Examination of Storm Water Quality (008, 010, 012 and 014)

The permittee must perform and document a quarterly visual examination of a storm water discharge associated with industrial activity from each outfall, except discharges exempted below. The examinations(s) must be made at least once in each of the following three-month periods: January through March, April through June,

July through September, and October through December. The visual examination must be conducted in a well lit area. If no storm event resulted in runoff from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no runoff occurred. The documentation must be signed and certified in accordance with Part I K of this permit.

(1) Visual examinations must be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed three hours) of when the runoff or snowmelt begins discharging from the facility. The examination must document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well-lit area. No analytical tests are required to be performed on the samples. All samples (except snowmelt samples) must be collected from the discharge resulting from a storm event that—results in an actual discharge from the site (defined as a "measurable storm event"), and that occurs at least 72 hours from the previously measurable storm event. The 72-hour storm interval is waived if the permittee is able to document that less than a 72-hour interval is representative for local storm events during the sampling period. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term. If no qualifying storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no qualifying storm event occurred during daylight hours that resulted in storm water runoff during that quarter. The documentation must be signed and certified in accordance with Part II.K.

(2) Visual examination reports must be maintained onsite with the SWP3. The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution),

and probable sources of any observed storm water contamination.

(3) When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may collect a sample of effluent of one of such outfalls and report that the examination data also applies to the substantially identical outfall(s) provided that the permittee includes in the SWP3 a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)) shall be provided in the plan.

(4) When the permittee is unable to conduct the visual examination due to adverse climatic conditions, the permittee must document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

f. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

The discharge of hazardous substances or oil in the storm water discharge(s) from a facility shall be prevented or minimized in accordance with the applicable SWP3 for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an onsite spill. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 or §62.1-44.34:19 of the Code of Virginia. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period:

(1) The permittee is required to notify the Department in accordance with the requirements of Part II.G. of this permit as soon as he or she has knowledge of the discharge;

(2) Where a release enters a municipal separate storm sewer system (MS4), the permittee shall also notify the owner or the MS4; and

(3) The storm water pollution prevention plan required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

g. Allowable Non-Storm Water Discharges

(1). The following non-storm water discharges are authorized by this permit provided the non-storm water component of the discharge is in compliance with Part g.(2), below.

(a) Discharges from fire fighting activities;

(b) Fire hydrant flushings;

(c) Potable water including water line flushings;

(d) Uncontaminated air conditioning or compressor condensate;

(e) Irrigation drainage;

(f) Landscape watering provided all pesticides, herbicides, and fertilizers have been applied in accordance with manufacturer's instructions;

(g) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);

(h) Routine external building wash down which does not use detergents;

(i) Uncontaminated ground water, river water or spring water;

(j) Foundation or footing drains where flows are not contaminated with process materials such as solvents;

(k) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains);

(1) Incidental spills of demineralized water from the reverse osmosis system or temporary demineralization trailer - shall not go directly to external stormwater outfalls.

(2). For all regularly-occurring discharges listed in g.(1) above that occur in industrial areas, the Storm Water Pollution Prevention Plan must include:

(a) Identification of each allowable non-storm water source;

(b) The location where the non-storm water is likely to be discharged; and

(c) Descriptions of any BMPs that are being used for each source.

(3). If mist blown from cooling towers is included as one of the allowable non-storm water discharges from the facility, the permittee must specifically evaluate the potential for the discharges to be contaminated by chemicals used in the cooling tower, and must select and implement BMPs to control such discharges so that the levels of cooling tower chemicals in the discharges would not cause or contribute to a violation of an applicable water quality standard.

4. Storm Water Pollution Prevention Plan (SWP3)

A storm water pollution prevention plan (SWP3)shall be developed for the facility. The SWP3 shall be prepared in accordance with good engineering practices. The SWP3 shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the SWP3 shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. The permittee must implement the provisions of the SWP3 as a condition of this permit.

The SWP3 requirements of this permit may be fulfilled by incorporating by reference other plans or documents such as an erosion and sediment control plan, a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act or best management practices (BMP) programs otherwise required for the facility provided that the incorporated plan meets or exceeds the SWP3 requirements of this section. If an erosion and sediment control plan is being incorporated by reference, it shall have been approved by the locality in which the activity is to

occur or by another appropriate plan approving authority authorized under the Virginia Erosion and Sediment Control Regulation 4 VAC 50-30-10 et seq. All plans incorporated by reference into the SWP3 become enforceable under this permit.

a. Deadlines for SWP3 Preparation and Compliance
Existing Facilities

The SWP3 which was previously prepared and implemented shall be complied with, and continually updated as needed in accordance with sections b., c., d. and e. below.

(1) Measures That Require Construction

In cases where construction is necessary to implement measures required by the SWP3, the SWP3 shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of the permit. Where a construction compliance schedule is included in the SWP3, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.

b. Signature and SWP3 Review

(1) Signature/Location

The SWP3 shall be signed in accordance with Part II.K. of this permit and be retained onsite at the facility which generates the storm water discharge in accordance with Part II.B. of this permit. For inactive facilities, the SWP3 may be kept at the nearest office of the permittee.

(2) Availability

The permittee shall make the SWP3, annual site compliance inspection report, or other information available to the DEQ upon request.

(3) Required Modifications

The Tidewater Regional Office may notify the permittee at any time that the SWP3 does not meet one or more of the minimum requirements of the permit. Such notification shall identify those provisions of the permit which are not being met by the SWP3, and identify which provisions of the plan

require modifications in order to meet the minimum requirements of this permit. Within 60 days of such notification, the permittee shall make the required changes to the SWP3 and shall submit to the DEQ Tidewater Regional Office a written certification that the requested changes have been made.

c. Keeping SWP3s Current

The permittee shall amend the SWP3 whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the potential for the discharge of pollutants to surface waters of the State or if the SWP3 proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under section d. below, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. New owners shall review the existing SWP3 and make appropriate changes. Amendments to the plan may be reviewed by the Department in the same manner as noted in section b. above.

d. Contents of SWP3

The contents of the SWP3 shall comply with the requirements listed below and those in Part I.D.5. (Facility-specific Storm Water Conditions) of this permit; these requirements are cumulative. The SWP3 shall include, at a minimum, the following items.

(1) Pollution Prevention Team

The SWP3 shall identify a specific individual or individuals within the facility organization as members of a storm water pollution prevention team that are responsible for developing the SWP3 and assisting the facility or plant manager in its implementation, maintenance, and revision. The SWP3 shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's SWP3.

(2) Description of Potential Pollutant Sources

The SWP3 shall provide a description of potential sources which may reasonably be expected to add significant amounts of pollutants to storm water discharges or that may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. The SWP3 shall

identify all activities and significant materials which may potentially be significant pollutant sources. The SWP3 shall include, at a minimum:

(a) Drainage

i. A site map indicating an outline of the portions of the drainage area of each storm water outfall within the facility boundaries, each existing structural control measure to reduce pollutants in storm water runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under section (2)(c) below have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes and wastewaters; locations used for the treatment, filtration or storage of water supplies; liquid storage tanks; processing areas; and, storage areas. The map must indicate the outfall locations and the types of discharges contained in the drainage areas of these outfalls.

ii. For each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow, and an identification of the types of pollutants which are likely to be present in the storm water discharges. Factors to consider include: the toxicity of chemicals; quantity of chemicals used, produced or discharged; the likelihood of contact with storm water; and, history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified.

(b) Inventory of Exposed Materials

An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of three years prior to the effective date of this permit and the present; method and location of on-site storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff between the time of three years prior to the effective date of this permit and the present; the location and a description of existing structural and non-structural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives.

(c) Spills and Leaks

A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility after the date of three years prior to the effective date of this permit. Such list shall be updated as appropriate during the term of the permit.

(d) Sampling Data

A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility, including a summary of sampling data collected during the term of this permit.

(e) Risk Identification and Summary of Potential Pollutant Sources

A narrative description of the potential pollutant sources from the following activities: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and, on-site waste disposal practices and wastewater treatment activities

to include sludge drying, storage, application or disposal activities. The description shall specifically list any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g., biochemical oxygen demand, total suspended solids, etc.) of concern shall be identified.

(3) Measures and Controls

The permittee shall develop a description of storm water management controls appropriate for the facility and implement these controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls.

(a) Good Housekeeping

Good housekeeping requires the clean and orderly maintenance of areas which may contribute pollutants to storm water discharges. The SWP3 shall describe procedures performed to minimize contact of materials with storm water runoff. Particular attention should be paid to areas where raw materials are stockpiled, material handling areas, storage areas, liquid storage tanks, material handling areas, and loading/unloading areas.

(b) Preventive Maintenance

A preventive maintenance program shall involve: timely inspection and maintenance of storm water management devices (e.g., cleaning oil/water separators, catch basins); inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures which could result in discharges of pollutants to surface waters; and, appropriate maintenance of such equipment and systems.

(c) Spill Prevention and Response Procedures

Areas where potential spills may occur which can contribute pollutants to storm water discharges, and their accompanying drainage

points shall be identified clearly in the SWP3. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the SWP3 and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to the appropriate personnel.

(d) Inspections

In addition to or as part of the comprehensive site compliance evaluation required under section d.(4) below, qualified facility personnel who are familiar with the industrial activity, the Best Management Practices (BMPs) and the SWP3 shall be identified to inspect designated equipment and areas of the facility at appropriate intervals. The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained with the pollution prevention plan.

(e) Employee Training

Employee training programs shall inform personnel responsible for implementing activities identified in the SWP3 or otherwise responsible for storm water management at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. The SWP3 shall identify periodic dates for such training.

(f) Recordkeeping and Internal Reporting Procedures

A description of incidents such as spills, or other discharges, along with other

information describing the quality and quantity of storm water discharges shall be included in the SWP3. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.

(g) Sediment and Erosion Control

The SWP3 shall identify areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.

(h) Management of Runoff

The SWP3 shall contain a narrative consideration of the appropriateness of traditional storm water management practices [practices other than those which control the generation or source(s) of pollutants] used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The SWP3 shall provide for the implementation and maintenance of measures that the permittee determines to be reasonable and appropriate. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices; reuse of collected storm water (such as for a process or as an irrigation source); inlet controls (such as oil/water separators); snow management activities; infiltration devices; wet detention/retention devices; or, other equivalent measures.

(4) Comprehensive Site Compliance Evaluation

Qualified facility personnel who are familiar with the industrial activity, the BMPs and the SWP3 shall conduct site compliance evaluations at appropriate intervals specified in the SWP3, but, in no case less than once a year during the permit term. Such evaluations shall include the following.

(a) Areas contributing to a storm water discharge associated with industrial activity, such as material storage, handling and disposal activities, shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the SWP3 shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the SWP3, such as spill response equipment, shall be made.

(b) Based on the results of the evaluation, the description of potential pollutant sources identified in the SWP3 in accordance with section d.(2) above and pollution prevention measures and controls identified in the SWP3 in accordance with section d.(3) above shall be revised as appropriate within 30 days of such evaluation and shall provide for implementation of any changes to the SWP3 in a timely manner, but in no case more than 60 days after the evaluation.

(c) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the SWP3, and actions taken in accordance with section (4)(b) above shall be made and retained as part of the SWP3 for at least three years from the date of the evaluation. The report shall identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the SWP3 and this permit. The report shall be signed in accordance with Part II.K. of this permit.

(d) Where compliance evaluation schedules overlap with inspections required under section d.(3)(d), the compliance evaluation may be conducted in place of one such inspection.

(e) Requirements for Salt Storage

Storage piles of salt used for deicing or other commercial or industrial purposes and which generate a storm water discharge associated with industrial activity which is discharged to surface waters of the State shall be enclosed or covered to prevent exposure to precipitation, except for exposure resulting from adding or removing materials from the pile. Piles do not need to be enclosed or covered where storm water from the pile is not discharged to surface waters of the State.

5. Facility-specific Storm Water Conditions

a. Good housekeeping measures.

(1) Fugitive dust emissions.

The permittee shall describe and implement measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize off-site tracking of coal dust such as installing specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.

(2) Delivery vehicles.

The plan must describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee shall consider the following:

(a) Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and

(b) Develop procedures to deal with leakage/spillage from vehicles or containers.

(3) Fuel oil unloading areas.

The plan must describe measures that prevent or minimize contamination of precipitation/surface runoff from fuel oil unloading areas. At a minimum the permittee must consider using the following measures, or an equivalent:

(a) Use of containment curbs in unloading areas;

(b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

(c) Use of spill and overflow protection (e.g., drip pans, drip diapers, and/or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).

(4) Chemical loading/unloading areas.

The permittee must describe and implement measures that prevent or minimize the contamination of precipitation/surface runoff from chemical loading/unloading areas. At a minimum the permittee must consider using the following measures (or their equivalents):

(a) Use of containment curbs at chemical loading/unloading areas to contain spills;

(b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

(c) Covering chemical loading/unloading areas, and storing chemicals indoors.

(5) Miscellaneous loading/unloading areas.

The permittee shall describe and implement measures that prevent or minimize the contamination of storm water runoff from loading and unloading areas. The permittee shall consider the following, at a minimum (or their equivalents): covering the loading area; grading, berming, or curbing around the loading area to divert runon; or locating the loading/unloading equipment and vehicles so that leaks are contained in existing containment and flow diversion systems.

(6) Liquid storage tanks.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from aboveground liquid storage tanks. At a minimum the permittee must consider employing the following measures (or their equivalents):

(a) Use of protective guards around tanks;

(b) Use of containment curbs;

(c) Use of spill and overflow protection ; and

(d) Use of dry cleanup methods.

(7) Large bulk fuel storage tanks.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from large bulk fuel storage tanks. At a minimum the permittee must consider employing containment berms (or its equivalent). The permittee shall also comply with applicable state and federal laws, including Spill Prevention Control and Countermeasures (SPCC).

(8) Spill reduction measures.

The permittee shall describe and implement measures to reduce the potential for an oil/chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all aboveground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs

deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(9) Oil bearing equipment in switchyards.

The permittee shall describe and implement measures to prevent or minimize contamination of surface runoff from oil bearing equipment in switchyard areas. The permittee shall consider the use of level grades and gravel surfaces to retard flows and limit the spread of spills, and the collection of storm water runoff in perimeter ditches.

(10) Residue hauling vehicles.

All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the container body. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds must be repaired as soon as practicable.

(11) Ash loading areas.

The permittee shall describe and implement procedures to reduce or control the tracking of ash/residue from ash loading areas where practicable, clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water before departure of each loaded vehicle.

(12) Areas adjacent to disposal ponds or landfills.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee must develop procedures to:

(a) Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and

(b) Reduce ash residue on exit roads leading into and out of residue handling areas.

(13) Landfills, scrapyards, surface impoundments, open dumps, general refuse sites.

The plan must address and include appropriate BMPs for landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(14) Vehicle maintenance activities.

For vehicle maintenance activities performed on the plant site, the permittee shall use the applicable BMPs outlined in Sector P of 9 VAC 25-151-10 et seq.

(15) Material storage areas.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay down areas). The

permittee shall consider the use of the following measures (or their equivalents): flat yard grades; runoff collection in graded swales or ditches; erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins); covering lay down areas; storing materials indoors; and covering materials temporarily with polyethylene, polyurethane, polypropylene, or hypalon. Storm water runon may be minimized by constructing an enclosure or building a berm around the area.

(16) Comprehensive site compliance evaluation.

As part of the evaluation, qualified facility personnel shall inspect the following areas on a monthly basis: coal handling areas, loading/unloading areas, switchyards, fueling areas, bulk storage areas, ash handling areas, areas adjacent to disposal ponds and landfills, maintenance areas, liquid storage tanks, and long term and short term material storage areas.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring.

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.

2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.

3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

4. Samples taken as required by this permit shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records.

1. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;

   b. The individual(s) who performed the sampling or measurements;

   c. The date(s) and time(s) analyses were performed;

   d. The individual(s) who performed the analyses;

   e. The analytical techniques or methods used; and

   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved

litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results.

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Department of Environmental Quality
   Tidewater Regional Office
   5636 Southern Boulevard
   Virginia Beach, VA 23462

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information.

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges.

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or

2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges.

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;

2. The cause of the discharge;

3. The date on which the discharge occurred;

4. The length of time that the discharge continued;

5. The volume of the discharge;

6. If the discharge is continuing, how long it is expected to continue;

7. If the discharge is continuing, what the expected total volume of the discharge will be; and

8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges.

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;

2. Breakdown of processing or accessory equipment;

3. Failure or taking out of service some or all of the treatment works; and

4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:

   a. Any unanticipated bypass; and

   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:

   a. A description of the noncompliance and its cause;

   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and

c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the Department's Regional Office at (757) 518-2000 (voice), and online http://www.deq.virginia.gov/Programs/PollutionResponsePreparedness/PollutionReportingForm.aspx.
For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes.

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

(1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or

(2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

c. The alteration or addition results in a significant change in the permittee's sludge use or disposal

practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements.

1. Applications. All permit applications shall be signed as follows:

a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part II K 1;

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

   c. The written authorization is submitted to the Department.

3. Changes to Authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification:

   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply.

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit

noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit.

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law.

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges.

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.

2. Notice

a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.

b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.

3. Prohibition of bypass.

a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:

(1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required under Part II U 2.

b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset.

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. An upset occurred and that the permittee can identify the cause(s) of the upset;

b. The permitted facility was at the time being properly operated;

c. The permittee submitted notice of the upset as required in Part II I; and

d. The permittee complied with any remedial measures required under Part II S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry.

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions.

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits.

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;

   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2 b.

Z. Severability.

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

ATTACHMENT A
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
TMP SUBMITTAL COVER SHEET

This form shall be completed for, and submitted with, each report of toxicity testing.

THIS REPORT SHALL CONTAIN THE FOLLOWING ITEMS	
	COMPLETED CHAIN OF SAMPLE CUSTODY
	CERTIFICATE OF ANALYSIS(ES)
	COMPLETE REPORT OF TOXICITY TESTING

VPDES PERMIT NUMBER: VA0004103

FACILITY NAME: Virginia Power-Yorktown

FACILITY LOCATION: 1600 Waterview Road, Yorktown VA 23692

OUTFALL NUMBER (circle one): 002 003 004 008

REPORTING PERIOD (ex: 2013 Annual, 1st Semi-Annual 2013): _____

SAMPLE TYPE (circle one): Stormwater Wastewater

WASTEWATER SOURCE(S) (if process wastewater, provide a brief source description):

_____

_____

SAMPLE EVENT INFORMATION (as applicable):

Sample Date and Time of Collection: _____

Time discharge began: _____

Storm event measurement (inches): _____

Time between sampling and
last measurable storm event (hours): _____

ADDITIONAL INFORMATION:
If this sample is a **make-up** sample or a **retest**, indicate which category of test and the reporting period this submittal applies to:

Report Type: (i.e., makeup, retest, etc.) _____

Reporting Period: _____

If the required TMP sample(s) were not collected provide a reason/rationale:

_____

CERTIFICATION:

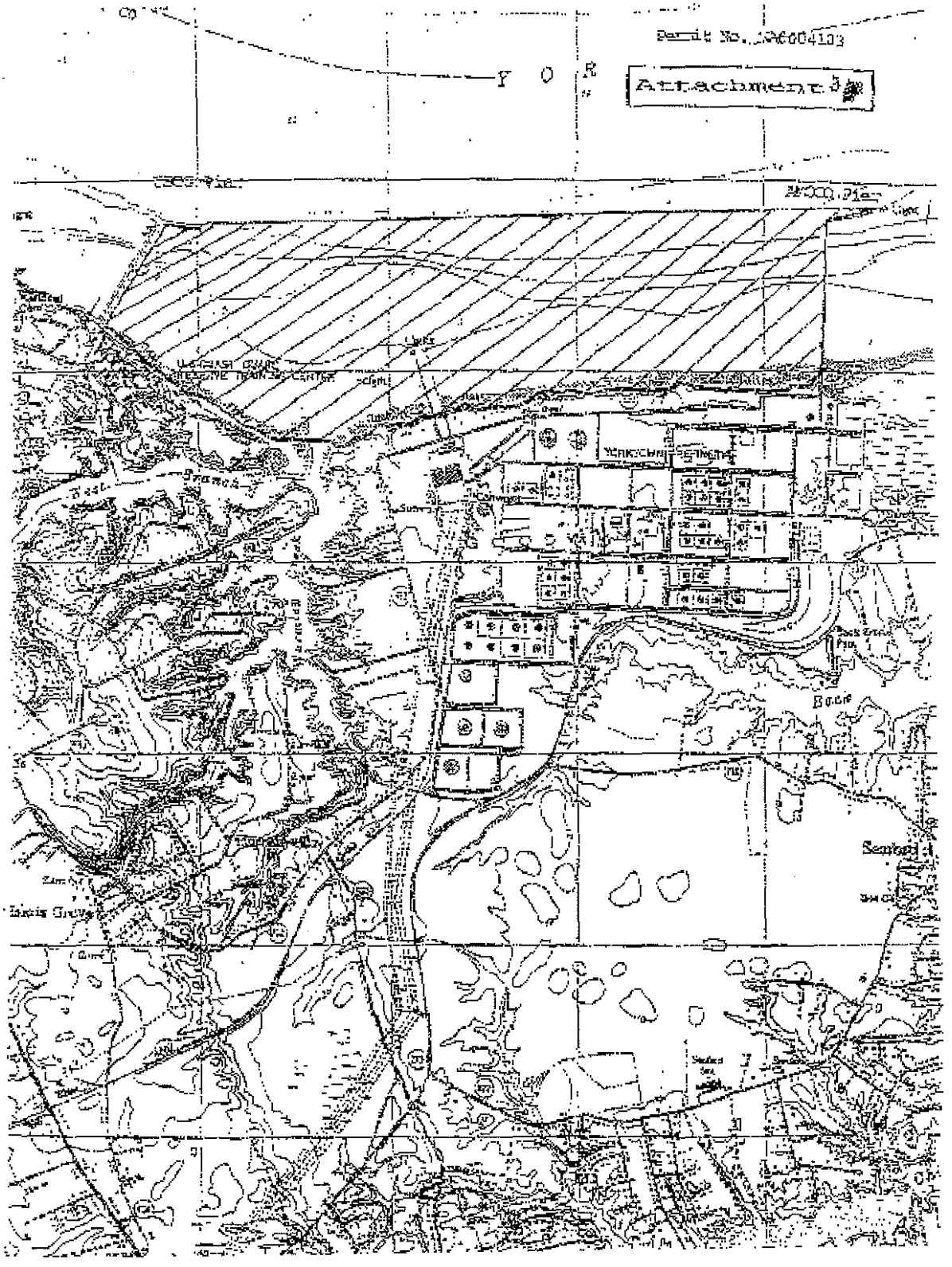
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

_____

Signature, printed name and title of Principal Officer or Authorized Agent / Date

Permit No. IN0004103

Attachment 5



VPDES PERMIT PROGRAM FACT SHEET - MINOR MODIFICATION

FILE NO: 728

This document gives pertinent information concerning the VPDES Permit listed below. This permit is being processed as an **INDUSTRIAL** minor modification. Because this is a minor modification processed in accordance with the VPDES permit regulation, 9 VAC 25-31-400, no change in limits, discharge monitoring requirements, special conditions or other changes have occurred except those specifically allowed under the regulatory description of minor modification and described in this fact sheet. Therefore, no information is provided regarding limits or special conditions rationale. There are no changes in stream impacts and no public notice information is included since it is not required. Only information pertinent to the minor modification is provided in this fact sheet which shall serve as an amendment to the fact sheet prepared at permit **reissuance** that occurred on November 14, 2012.

1. **PERMIT NO.**: VA0004103 **EXPIRATION DATE**: November 13, 2017

2. **FACILITY NAME AND LOCAL MAILING ADDRESS**

Dominion - Yorktown Power Station
1600 Waterview Road
Yorktown, VA 23692

CONTACT AT FACILITY:
NAME: Cathy C. Taylor
TITLE: Director Electric Environmental Services
PHONE: (804)273-2929
EMAIL: Cathy.C.Taylor@dom.com

FACILITY LOCATION ADDRESS (IF DIFFERENT)

CONTACT AT LOCATION ADDRESS
NAME: Laura A. Shumaker
TITLE: Environmental Compliance Coordinator
PHONE: (757)898-2555
EMAIL: Laura.A.Shumaker@dom.com

3. **OWNER CONTACT**: (TO RECEIVE PERMIT)
NAME: C.D. Holley
TITLE: V.P. Fossil & Hydro Systems Operations
COMPANY NAME: (IF DIFFERENT)
ADDRESS: 5000 Dominion Blvd.
Glenn Allen, VA 23060
PHONE: (804)273-2929

CONSULTANT CONTACT:
NAME:
FIRM NAME:
ADDRESS:
PHONE: ( )

4. **PERMIT DRAFTED BY**: DEQ, Water Permits, Tidewater Regional Office

Permit Writer(s): Melinda Woodruff Date(s): July 5, 2012, July 11, 2013
Reviewed By: Deanna Austin Date(s): July 11, 2013, 7/17/13 7/4/13, 7/24/13
(TO BE REVIEWED BY THE WATER PERMITS FACILITY COORDINATOR IF THE MINOR MODIFICATION IS PROCESSED BY ANYONE OTHER THAN THE FACILITY COORDINATOR)

5. **PERMIT ACTION:**

( ) Owner Minor Modification (x) Board Minor Modification
( ) Change of Ownership/Name [Effective Date:]

6. **SUMMARY OF SPECIFIC ATTACHMENTS LABELED AS:**

Attachment 1	TABLE III(a) - Change Sheet
Attachment 2	Chronology Sheet
Attachment 3	Table II - Change for Outfall 008 and 014
Attachment 4	TMP - Change for Outfall 003 and 004
Attachment ____	Discharge Location/Topographic Map
Attachment ____	Schematic/Plans & Specs/Site Map/Water Balance
Attachment ____	TABLE I - Discharge/Outfall Description

MODIFICATION REQUEST COMPLETE: NA

7. **RECEIVING WATERS CLASSIFICATION**: River basin information.

Outfall No(s): 003

Receiving Stream:	Unnamed Tributary to Chisman Creek
River Mile:	see attachment 10
Basin:	Chesapeake Bay, Atlantic Ocean and Small Coastal
Subbasin:	NA
Section:	2d
Class:	III
Special Standard(s):	None
Tidal:	YES
7-Day/10-Year Low Flow:	NA
1-Day/10-Year Low Flow:	NA
30-Day/5-Year Low Flow:	NA
Harmonic Mean Flow:	NA

Outfall No(s): 008 and 014

Receiving Stream:	York River
River Mile:	see attachment 10
Basin:	York River
Subbasin:	NA
Section:	1
Class:	II
Special Standard(s):	a
Tidal:	YES
7-Day/10-Year Low Flow:	NA
1-Day/10-Year Low Flow:	NA
30-Day/5-Year Low Flow:	NA

8. **FACILITY DESCRIPTION:** Describe the type facility from which the discharges originate.

THE MODIFICATION CONSISTS OF typographical corrections for monitoring frequency for copper and zinc at outfall 008 and 014 and corrections for TMP requirements for outfall 003. This modification addresses only these items specifically to correct errors found after the reissuance of the current permit.

9. **CHANGES TO PERMIT**: Use **TABLE III(a)** to record any changes from the previous permit and the rationale for those changes.

SEE ATTACHMENT _1_

10. **ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:**

ATTACHMENT 1

TABLE III(a) CHANGE SHEET

TABLE III(a)
VPDES PERMIT PROGRAM
Permit Processing Change Sheet

1. Effluent Limits and Monitoring Schedule: (List any changes FROM PREVIOUS PERMIT and give a brief rationale for the changes).

OUTFALL NUMBER	PARAMETER CHANGED	MONITORING LIMITS CHANGED FROM / TO	EFFLUENT LIMITS CHANGED FROM / TO	RATIONALE	DATE & INITIAL
008 and 014	Copper and Zinc	1/Year to 1/3 Months		Typographical error	7/5/2013 MYW

OTHER CHANGES FROM:	CHANGED TO:	DATE & INITIAL
Special Condition for TMP Part 1.C	Corrected language for reproduction and not growth for Outfall 003	7/5/13 MYW

ATTACHMENT 2

CHRONOLOGY SHEET

VPDES PERMIT PROGRAM

CHRONOLOGY OF EVENTS

APPLICATION RECEIVED	APPLICATION RETURNED	ADDITIONAL INFO REQUESTED	APPLICATION/ADD INFO DUE BACK IN RO	APPLICATION/ADD. INFO RECEIVED
NA	NA	NA	NA	NA

APPLICATION TO VDH:	VDH COMMENTS RECEIVED:
APPLICATION TO OWPS:	OWPS COMMENTS RECEIVED:
APPLICATION ADMIN. COMPLETE:	APPLICATION TECH. COMPLETE:
DATE FORWARDED TO ADMIN:	

Date	DESCRIPTIVE STATEMENT [CHRONOLOGY OF EVENTS] (Meetings, telephone calls, letters, memos, hearings, etc. affecting permit from application to issuance)
7/5/13	Board Initiated Modification for changes to Outfall 103 for monitoring frequency for Copper and Zinc from 1/Y to 1/3 months. Modification for Changes to TMP language for Outfall 003. Corrected pages are attached to transmittal letter along with new copy of the permit.
7/8/2013	Board Initiated Modification draft complete and sent out for review and signature.

ATTACHMENT 3

TABLE II - Outfall 008 and 014

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL #008 and 014
Outfall Description: Regulated storm water runoff from an industrial activity area; 008 - unit 3 area, ash handling areas; 014 - service road for intake cooling water pump
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS [a]	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MG)	BPJ-14		NL	NA	NL	1/Year	Estimate [b]
pH	BPJ-14		NA	NL	NL	1/Year	Grab
Total Phosphorus (mg/l)	BPJ		2.0	NA	NA	1/Year	Grab
Total Suspended Solids (mg/l) [c]	BPJ-14		NA	NA	NL	1/Year	Grab
TPH (mg/l) [c]	BPJ		NA	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [c] [d]	BPJ		NA	NA	NL	1/3 Months	Grab
Dissolved Zinc (ug/l) [c] [d]	BPJ		NA	NA	NL	1/3 Months	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY; I.S. = Immersion Stabilization
1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).
1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D. (STORM WATER MANAGEMENT CONDITIONS) for additional storm water sampling and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.
TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.
[d] See Part I.D. for Storm Water Evaluation requirements.

The bases for the limitations codes are:

Best Professional Judgment for storm water in category of steam electric facilities (14)

The basis for the limitations codes are:

1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

ATTACHMENT 4

TMP

MEMORANDUM

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

TIDEWATER REGIONAL OFFICE

5636 Southern Boulevard Virginia Beach, VA 23462

SUBJECT: TMP language for Dominion Virginia Power Yorktown Plant (VA0004103)

TO: Melinda Woodruff

FROM: Deanna Austin

DATE: 7/8/13

COPIES:

A minor permit modification was initiated to correct TMP permit language concerning the chronic test for **Ceriodaphnia dubia**. The test type was missing reproduction but contained growth. It has been corrected to include reproduction and remove growth. No other changes were made to the TMP section, therefore only the section where changes were made are included in this memo.

The following toxicity language is recommended for the reissuance of the VA Power –Yorktown permit (VA0004103).

C. TOXICS MANAGEMENT PROGRAM (TMP)

1. Biological Monitoring for outfalls 002 and 004

a. In accordance with the schedule in C.2.below, the permittee shall conduct annual toxicity tests for the duration of the permit.

The permittee shall collect a grab sample of final effluent from outfall 002 in accordance with the sampling methodology in Part I.A. of this permit. The grab sample for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit. Annual acute and chronic tests shall be conducted for outfall 002 using:

48 Hour Static Acute test using **Americamysis bahia**

Chronic Static Renewal 7-day Survival and Growth Test with **Americamysis bahia**

The permittee shall collect a grab sample of final effluent from outfall 004 in accordance with the sampling methodology in Part I.A. of this permit. The grab sample for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit. An annual chronic test shall be conducted for outfall 004. The chronic test to use is:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using **Ceriodaphnia dubia**

b. The acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50}. Express the results as TU_a (Acute Toxic Units) by dividing 100/ LC_{50} for reporting.

The chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and growth. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for reporting. Report the LC50 at 48 hours and the IC25 with the NOEC's in the test report.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

c. In the event that sampling of any of the outfalls is not possible due to the absence of effluent flow during a particular testing period, the permittee shall perform a make-up sample during the next testing period.

d. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of the effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

e. The test dilutions shall be able to determine compliance with the following endpoints:

(1) Acute LC_{50} of 100% equivalent to a TU_a of 1.0

(2) Chronic NOEC of 100% equivalent to a TU_c of 1.0

2. Reporting Schedule

The permittee shall report the results and supply **one** complete copy of the toxicity test reports to the Tidewater Regional Office in accordance with the

schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, and all chains of custody. **Attachment A** must be submitted with each complete report. All data shall be submitted within 60 days of the sample date.

(a)	**Conduct first annual TMP test for outfall 002 using Americamysis bahia and for outfall 004 using Ceriodaphnia dubia**	**By December 31, 2013**
(b)	**Submit results of all biological tests**	**Within 60 days of the sample date and no later than January 10, 2014**
(c)	**Conduct subsequent annual TMP tests for outfalls 002 and 004**	**By December 31, 2014, 2015, and 2016**
(d)	**Submit subsequent annual biological tests**	**Within 60 days of the sample date and no later than January 10, 2015, 2016 and 2017**

3. Biological Monitoring for Outfall 003

a. In accordance with the schedule in C.4.below, the permittee shall conduct semi-annual toxicity tests for the duration of the permit.

(1) The permittee shall collect a grab sample of final effluent for acute tests from outfall 003 in the same manner as samples collected for Part 1.A of this permit. The grab samples for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit.

(2) Chronic testing shall be required when the discharge is continuous for 8 hours or more a day for three consecutive days **OR** when the discharge occurs for four consecutive days regardless of the amount/time of discharge. The permittee shall submit monthly operational logs documenting days and times of discharge with the toxicity results.

If required, the permittee shall collect 3 grab samples over a 24 hour period for chronic tests from outfall 003 in accordance with the sampling methodology in Part I.A. of this permit.

Semi-annual acute and chronic (if required) tests shall be conducted for outfall 003 using:

48 Hour Static Acute test using **Ceriodaphnia dubia**

Chronic 3-Brood Static Renewal Survival and Reproduction Test

using **Ceriodaphnia dubia**

b. The acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50}. Express the results as TU_a (Acute Toxic Units) by dividing 100/ LC_{50} for reporting.

The chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and growth. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for reporting. Report the LC50 at 48 hours and the IC25 with the NOEC's in the test report.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

c. In the event that sampling of any of the outfalls is not possible due to the absence of effluent flow during a particular testing period, the permittee shall perform a make-up sample during the next testing period.

d. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of the effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

e. The test dilutions shall be able to determine compliance with the following endpoints:

(1) Acute LC_{50} of 100% equivalent to a TU_a of 1.0

(2) Chronic NOEC of 100% equivalent to a TU_c of 1.0

4. Reporting Schedule

The permittee shall report the results and supply **one** complete copy of the toxicity test reports to the Tidewater Regional Office in accordance with the schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, all chains of custody, and the outfall 003 operational log. **Attachment A** must be submitted with each complete report. All data shall be submitted within 60 days of the sample date.

(a)	Conduct first semi-annual TMP tests for outfall 003 using Ceriodaphnia dubia	By June 30, 2013
(b)	Submit results of the biological	Within 60 days of the

	tests	sample date and no later than July 10, 2013
(c)	Conduct subsequent semi-annual TMP tests for outfalls 003 using Ceriodaphnia dubia	By December 31 and June 30 each year
(d)	Submit subsequent semi-annual biological tests	Within 60 days of the sample date and no later than January 10 and July 10 of each year