AGREEMENT FOR THE SALE OF ELECTRICAL OUTPUT TO VIRGINIA ELECTRIC AND POWER COMPANY

THIS AGREEMENT, effective this day of June, 2015, (the "Effective Date") by and between VIRGINIA ELECTRIC AND POWER COMPANY, a Virginia public service company with its principal office in Richmond, Virginia, doing business in Virginia as Dominion Virginia Power, and in North Carolina as Dominion North Carolina Power, hereinafter called "Dominion North Carolina Power" or "Company", and SOLNCPOWER10, LLC, a North Carolina limited liability company, with its principal office in Raleigh, North Carolina, hereinafter called "Operator", operator of the SOLNCPOWER10 Facility, hereinafter called the "Facility":

RECITALS

WHEREAS, the North Carolina Utilities Commission has adopted a rate schedule described in this Agreement below as <u>Schedule 19-FP</u> applicable to Qualifying Facilities (or "QF" as that term is defined in 18 C.F.R. § 292) which can provide Contracted Capacity (a) up to 5000 kW from a hydroelectric generating facility, (b) up to 5000 kW from a generating facility fueled by trash or methane derived from landfills, hog waste, poultry waste, solar, wind or non-animal forms of biomass, or (c) up to 3000 kW for all other QFs; and

WHEREAS, the parties hereto wish to contract for the sale of electrical output from such a QF to be operated by Operator,

NOW THEREFORE, in consideration of the mutual covenants and agreements herein contained, the parties hereto contract and agree with each other as follows:

Article 1: Parties' Purchase and Sale Obligations

Dominion North Carolina Power or its agent, assignee, or successor will purchase from Operator all of the electrical output (energy and Contracted Capacity) made available for sale from the Facility on an excess sale arrangement. In addition, Operator has elected to contract under the FP Method for determining the Company's avoided cost as described more fully in Exhibit C. Operator elects to operate the Facility in the Mode of Operation as specified in Section IV.C (Firm Mode of Operation) of Schedule 19-FP. The Facility is located in Dominion North Carolina Power's retail service area in Hertford, Perquimans County, North Carolina.

Article 2: Term and Commercial Operations Date

This Agreement shall commence on the Effective Date and shall continue in effect for a period of fifteen (15) years from the Commercial Operations Date ("COD"). The COD shall be the first date that all of the following conditions have been satisfied:

Mar 30 2016

Page 2 of 19

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- a) The Facility has been permanently constructed, synchronized with and has delivered electrical output to the Dominion North Carolina Power system and such action has been witnessed by an authorized Dominion North Carolina Power employee;
- b) After completion of item a) above, Dominion North Carolina Power has received written notice from Operator specifying the Commercial Operations Date and certifying that the Facility is ready to begin commercial operations as a Qualifying Facility;
- c) Operator and Dominion North Carolina Power (or the PJM Interconnection, LLC or other operator of the Dominion North Carolina Power transmission system, as applicable) have executed an Interconnection Agreement to be included herewith as Exhibit A;
- d) Operator has provided to Dominion North Carolina Power Qualifying Facility Certification to be included herewith as Exhibit E; and
- e) Operator either has received from the North Carolina Utilities Commission a Certificate of Public Convenience and Necessity or has filed the notice required by G.S. 62-110.1(g) and Commission Rule 8-65 and is not legally required to obtain such a certificate for the construction and operation of the Facility.

For contract terms of 10 years or more, this Agreement may be renewed at the option of Dominion North Carolina Power on substantially the same terms and conditions and at a rate either (1) mutually agreed upon by the parties negotiating in good faith and taking into consideration Dominion North Carolina Power's then avoided cost rates and other relevant factors or (2) set by arbitration.

Article 3: Contracted Capacity

The Facility, consisting of solar panels, will have a combined nameplate rating of approximately 5,000 kW. The Facility's Contracted Capacity shall be 5,000 kW net to Company (alternating current or ac).

Article 4: Attachments

The following documents are attached hereto and are made a part hereof:

- Exhibit A: Executed Interconnection Agreement (attached for information but not as a part of this Agreement)
- Exhibit B: General Terms and Conditions
- Exhibit C: Schedule 19-FP, Power Purchases from Cogeneration and Small Power Production Qualifying Facilities and applicable to the QF who chooses the FP Method (effective March 28, 2014, sometimes referred to as "Schedule 19-FP" herein)
- Exhibit D: Map and related written description identifying the specific location of the Facility in the City or County designated in ARTICLE 1
- Exhibit E: "Qualifying Facility" Certification (if Facility is less than 1 MW, Owner submission that the Facility qualifies as a Qualifying Facility (QF) under federal law)
- Exhibit F: Certificate of Public Convenience and Necessity or evidence that no such certificate was required under North Carolina law in the form of a report of proposed construction to the Commission pursuant to Commission Rule 8-65.

Article 5: Price

Payments for all energy and Contracted Capacity purchased hereunder shall be determined by the provisions for payments in Schedule 19-FP included herewith as Exhibit C and pursuant to Operator elections within such Schedule 19-FP, if any, as stated in Article 1 hereof. Payments for all energy and Contracted Capacity purchased hereunder shall be on a cents per kilowatt-hour basis.

If Operator elects the Firm Mode of Operation, then for the term of this Agreement Operator shall be paid for firm energy, in accordance with Schedule 19 – FP, effective for usage on March 28, 2014 (as revised on October 30, 2014), the 15-year Fixed Long-Term Rate as provided for at Section VI.B of Schedule 19-FP. Payments for firm energy will begin on the Commercial Operations Date. All energy delivered per hour above the Contracted Capacity up to 105% of the Contracted Capacity shall be considered non-firm and be paid for at the applicable non-firm rate pursuant to Section V of Schedule 19-FP. No payment shall be made for energy delivered above 105% of the Contracted Capacity. All energy delivered prior to the Commercial Operations Date shall be considered non-firm and paid at the non-firm energy rate. In all cases, such non-firm energy rates will be those in the Schedule 19-FP in effect at the time such energy is delivered.

If Operator elects the Firm Mode of Operation, specified in Section IV.C of Schedule 19-FP, Operator shall be paid for Contracted Capacity on a cents per kilowatt-hour basis as specified in Schedule 19-FP, Section VII. Operator shall not be paid for capacity above the Contracted Capacity level in any hour during which the generation exceeds the Contracted Capacity level specified in Article 3.

Article 6: Reserved

Article 7: Operator's Pre-COD Obligations

After execution of this Agreement and until the Commercial Operations Date, Operator shall prepare a quarterly status report for Dominion North Carolina Power showing the current progress on completing the project. This status report shall be delivered to Dominion North Carolina Power on or before the following dates each year, January 15, April 15, July 15, and October 15. Such status report shall discuss the progress of the project in a format which is acceptable to Dominion North Carolina Power.

The Facility will be considered to have commenced construction on the first day upon which all of the following have occurred: (1) the issuance by Operator to its construction contractor for the Facility of a written unconditional Notice-to-Proceed; (2) the mobilization of major construction equipment and construction facilities on the Facility site; and (3) the commencement of major structural excavation and structural concrete work relating to a major component of the Facility such as the power island consistent with having commenced a continuous process of construction relating to the Facility. Dominion North Carolina Power shall have no obligation to accept a declaration of Commercial Operations prior to July 31, 2015. The anticipated Commercial Operations Date is October 31, 2015.

Article 8: Default and Early Termination

Operator and Dominion North Carolina Power agree that any of the following will be a material breach by the Operator of this Agreement and shall result in Dominion North Carolina Power having the right to immediate cancellation, without a cure period, of this Agreement: (i) failure to commence construction of the Facility by February 21, 2016, as defined in Article 7 above, and provide Dominion North Carolina Power with written notice thereof (ii) failure to achieve Commercial Operations Date within thirty months of February 21, 2014; provided, however, an Operator may be allowed additional time to begin deliveries of power to the Company if the QF facilities in question are nearly complete at the end of such thirty month period and the QF is able to demonstrate that it is making a good faith effort to complete its project in a timely manner, (iii) failure to provide two (2) consecutive status reports pursuant to Article 7 above, (iv) delivery or supply of electrical output to any entity other than Dominion North Carolina Power or its agent, assignee or successor, (v) failure to meet those requirements necessary to maintain Qualifying Facility status, (vi) failure at any time following COD to have in effect a valid Interconnection Agreement with Dominion North Carolina Power (or its successor as operator of the Dominion North Carolina transmission system), (vii) failure to generate and deliver power from the Facility to Dominion North Carolina Power for more than 180 consecutive days, at any time after the Commercial Operations Date, or (viii) failure to

maintain QF certification. In the event Operator fails to perform in any way, materially or nonmaterially, any other obligations not specifically listed above, Operator shall be given notice and thirty (30) days to cure such non-performance. Notwithstanding any cure period, Dominion North Carolina Power shall not be obligated to purchase any energy or Contract Capacity under this Agreement while any such breach remains uncured. If Operator fails to cure its nonperformance within thirty (30) days of Dominion North Carolina Power's notice, Dominion North Carolina Power shall have the right to cancel this Agreement. Operator agrees that if this Agreement is canceled by Dominion North Carolina Power for Operator's non-performance prior to the end of the initial term of this Agreement, then, Dominion North Carolina Power shall have all rights and remedies available at law or in equity.

Article 9: Representations and Warranties

Operator represents and warrants that it has the right to operate the Facility in accordance with the terms of this Agreement. Operator further represents and warrants that all permits, approvals, and/or licenses necessary for the operation of the Facility will be obtained prior to the Commercial Operations Date and shall be maintained throughout the Term of this Agreement. Operator shall, provide such documentation and evidence of such right, permits, approvals and/or licenses as Dominion North Carolina Power may reasonably request, including without limitation air permits, leases and/or purchase agreements.

Article 10: Notices and Payments

All correspondence and payments concerning this Agreement shall be to the addresses below. Either Party may change the address by providing written notice to the other Party.

OPERATOR:

SOLNCPOWER10, LLC 176 Mine Lake Court, Suite 100 Raleigh, NC 27615 DOMINION NORTH CAROLINA POWER:

Virginia Electric and Power Company Power Contracts (3SE) 5000 Dominion Boulevard Glen Allen, Virginia 23060-6711

Article 11: Integration of Entirety of Agreement

This Agreement is intended by the Parties as the final expression of their Agreement and is intended also as a complete and exclusive statement of the terms of their Agreement with respect to the purchase and sale of electrical output generated by the Facility. All prior written or oral understandings, offers or other communications of every kind pertaining to this Agreement are hereby abrogated and withdrawn.

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Mar 30 2016

IN WITNESS WHEREOF, the Parties hereto have caused their names to appear below, signed by authorized representatives as of the date first shown above.

SOLNCPOWER10, LLC

By: Heath McLaughlin

Title: Authorized Individual

Date: June 26, 2015

VIRGINIA ELECTRIC AND POWER COMPANY

By: Culix Ops Title: 2015 Date:

EXHIBIT A GENERATOR INTERCONNECTION GUIDANCE AND AGREEMENT

Dominion North Carolina Power's procedures for generator interconnection are available through the Internet at the Company's website with draft interconnection agreements for non-FERC jurisdictional generators (as approved by the NCUC included as Attachments 1, 2 and 3 thereto). For FERC jurisdictional generators interconnection shall be in accordance with FERC and PJM requirements.

The specific Internet address for these procedures is <u>https://www.dom.com/dominion-north-</u> <u>carolina-power/customer-service/rates-and-tariffs/pdf/term24.pdf</u>. The Internet site contains links to the Generator Interconnection Procedures along with the Generator Interconnection Request Form. Once an Interconnection Agreement is executed it will be included herewith as part of this Exhibit A.

2. Sinderformer Market

EXHIBIT B General Terms and Conditions

I - Assignments

Operator agrees not to assign this Agreement without the prior written consent of Dominion North Carolina Power. Dominion North Carolina Power may withhold such consent if it determines, in its sole discretion, that such assignment would not be in the best interests of Dominion North Carolina Power or its customers. Any attempted assignment that Dominion North Carolina Power has not approved in writing shall be null and void and ineffective for all purposes. In the event of assignment by Operator, Operator shall pay Company within thirty (30) days of the effective date of the assignment an amount equal to the actual costs incurred by Company in connection with such assignment up to a maximum amount of \$10,000 per assignment; provided, however, assignment of this Agreement by Operator in connection with an initial financing arrangement which is finalized and for which consent of Company is requested within nine months of the Effective Date of this Agreement shall not be subject to the payment requirement provided herein.

II - Indemnity

Operator shall indemnify and save harmless and, if requested by Dominion North Carolina Power, defend Dominion North Carolina Power, its officers, directors and employees from and against any and all losses and claims or demands for damages to real property or tangible personal property (including the property of Dominion North Carolina Power) and injury or death to persons arising out of, resulting from, or in any manner caused by the presence, operation or maintenance of any part of Operator's Facility; provided, however, that nothing herein shall be construed as requiring Operator to indemnify Dominion North Carolina Power for any injuries, deaths or damages caused by the sole negligence of Dominion North Carolina Power. Operator agrees to provide Dominion North Carolina Power written evidence of liability insurance coverage, which is specifically and solely for the Facility, prior to the operation of the Facility. Operator agrees to have Dominion North Carolina Power named as an additional insured, and shall keep such coverage current throughout the term of this Agreement.

III - QF Certification

Operator represents and warrants that its Facility meets the Qualifying Facility requirements established as of the Effective Date of this Agreement by the Federal Energy Regulatory Commission's rules (18 Code of Federal Regulations Part 292), and that it will continue to meet those requirements necessary to remain a Qualifying Facility throughout the term of this Agreement. [Dominion North Carolina Power may require "FERC" QF Certification by adding the following: "Operator agrees to obtain, at Operator's expense, a certification as a "QF" from the Federal Energy Regulatory Commission, in accordance with 18 C.F.R. § 292.207 (b)."] Operator agrees to provide copies, at the time of submittal, of all correspondence and filings with the Federal Energy Regulatory Commission relating to obtaining certification of the

Facility as a "QF". Operator will submit prior to delivery of electrical output from the Facility to Dominion North Carolina Power evidence of Qualifying Facility certification. After the Commercial Operations Date, if requested by Dominion North Carolina Power prior to March 1 of any year, Operator agrees to provide July 1 of the same year to Dominion North Carolina Power for the preceding year sufficient for Dominion North Carolina Power to determine the Operator's continuing compliance with its QF requirements, including but not limited to:

(a) All information required by FERC Form 556.

(b) Copy of the Facility's QF Certification and any subsequent revisions or amendments,

(c) Provide a copy of any contract executed with a thermal host.

(d) Identification of the amount of each type of fuel used per month and average heating value for each type of fuel, which will be used to determine the Total Energy Input. These values should be verifiable by auditing supporting documentation.

(e) Identification of each of the QF's useful thermal output(s) for each month, including temperature, pressure, amount of thermal output delivered, temperature and amount of condensate returned (if applicable) and the conversion to Btus. These values should be verifiable by auditing supporting documentation.

(f) Identification of the QF's useful power output for each month. These values should be verifiable by auditing supporting documentation.

(g) Provide drawings, heat balance diagrams and a sufficiently detailed narrative describing the delivery of useful thermal output including the location, description, and calibration data for all metering equipment used for QF calculations.

(h) Provide any other information which the QF believes will facilitate Dominion North Carolina Power's monitoring of the QF requirements.

(i) Dominion North Carolina Power may request additional information, as needed, to monitor the QF requirements.

IV - Consequential Damages

In no event shall either Party be liable to the other for any special, indirect, incidental or consequential damages whatsoever, except that the foregoing shall not apply to any promises of indemnity or obligations to reimburse the Parties expressly set forth in this Agreement.

V - Amendments, Waivers, Severability and Headings

This Agreement, including the appendices thereto, can be amended only by agreement between the Parties in writing. The failure of either Party to insist in any one or more instances upon strict performance of any provisions of this Agreement, or to take advantage of any of its rights hereunder, shall not be construed as a waiver of any such provisions or the relinquishment of any such right or any other right hereunder. In the event any provision of this Agreement, or any part or portion thereof, shall be held to be invalid, void or otherwise unenforceable, the obligations of the Parties shall be deemed to be reduced only as much as may be required to remove the impediment. The headings contained in this Agreement are used solely for convenience and do not constitute a part of the Agreement between the Parties hereto, nor should they be used to aid in any manner in the construction of this Agreement.

VI - Compliance with Laws

Operator covenants that it shall comply with all applicable provisions of Executive Order 11246, as amended; § 503 of the Rehabilitation Act of 1973, as amended; § 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974, as amended; and implementing regulations set forth in 41 C.F.R. §§ 60.1, 60-250, and 60-741 and the applicable provisions relating to the utilization of small minority business concerns as set forth in 15 U.S.C. § 637, as amended. Operator agrees that the equal opportunity clause set forth in 41 C.F.R. § 60-1.4 and the equal opportunity clauses set forth in 41 C.F.R. § 250.5 and 41 C.F.R. 60-§741.5 and the clauses relating to the utilization of small and minority business concerns set forth in 15 U.S.C. § 637(d)(3) and 48 C.F.R. § 52-219.9 are hereby incorporated by reference and made a part of this Agreement. If this Agreement has a value of more than \$500,000, Operator shall adopt and comply with a small business and small disadvantaged business subcontracting plan which shall conform to the requirements set forth in 15 U.S.C. § 637(d)(6). The provisions of this section shall apply to Operator only to the extent that:

(a) such provisions are required of Operator under existing law,

(b) Operator is not otherwise exempt from said provisions and

(c) Compliance with said provisions is consistent with and not violative of 42 U.S.C. § 2000 et seq., 42 U.S.C. § 1981 et seq., or other acts of Congress.

VII - Interconnection and Operation

Operator shall be responsible for the design, installation, and operation of its Facility. Operator shall be responsible for obtaining an Interconnection Agreement. Interconnection guidelines and agreement requirements are set forth in Exhibit A of this Agreement.

Operator shall: (a) maintain the Facility and the Interconnection Facilities on Operator's side of the Interconnection Point, except Dominion North Carolina Power-owned Interconnection Facilities, in conformance with all applicable laws and regulations and in accordance with operating procedures; (b) obtain any governmental authorizations and permits

required for the construction and operation thereof and keep all such permits and authorizations current and in effect; and (c) manage the Facility in a safe and prudent manner. If at any time Operator does not hold such authorizations and permits, Dominion North Carolina Power may refuse to accept deliveries of power hereunder.

Dominion North Carolina Power may enter Operator's premises (a) to inspect Operator's protective devices at any reasonable time; (b) to read or test meters and metering equipment; and (c) to disconnect, without notice, the Facility if, in Dominion North Carolina Power's opinion, a hazardous condition exists and such immediate action is necessary to protect persons, or Dominion North Carolina Power facilities or other customers' facilities from damage or interference caused by Operator's Facility or lack of properly operating protective devices. Dominion North Carolina Power will endeavor to notify Operator as quickly as practicable if disconnection occurs as provided in (c) above. Any inspection of Operator's protective devices shall not impose on Dominion North Carolina Power any liabilities with respect to the operation, safety or maintenance of such devices.

Operator shall not operate the Facility in parallel with Dominion North Carolina Power's system prior to (a) an inspection of the installed Interconnection Facilities by an authorized Dominion North Carolina Power representative and (b) receiving written authorization from an authorized Dominion North Carolina Power representative to begin parallel operation.

VIII - Metering

Dominion North Carolina Power will meter all electrical output delivered from the Facility on the high voltage side of the step up transformer.

Operator agrees to pay an administrative charge to Dominion North Carolina Power to reflect all reasonable costs incurred by Dominion North Carolina Power for meter reading and billing, also referred to as metering charges. The monthly meter reading and billing charge shall change from time to time when the NCUC approves a different charge in Schedule 19-FP.

In addition, Operator agrees to pay any fees required to provide and maintain leased telephone lines required for meter reading by Dominion North Carolina Power.

IX - Billing and Payment

Dominion North Carolina Power shall read the meter in accordance with its normal meter reading schedule. Within twenty-eight (28) days thereafter, Dominion North Carolina Power shall send Operator payment for energy and Contracted Capacity delivered. At Dominion North Carolina Power's option, (i) Dominion North Carolina Power may make such payments net of the monthly metering charges, Interconnection Facilities charges, and charges for sales of electricity to the Operator, or (ii) Dominion North Carolina Power may invoice Operator for such charges separately. Payment by Dominion North Carolina Power shall include verification showing the billing month's ending meter reading, on-peak and off-peak kWh, and the amount paid. If in any month the monthly metering and Interconnection Facilities charges are in excess of any payments due Operator, Dominion North Carolina Power shall bill Operator for the difference and Operator shall make such payment within 28 days of the invoice date. Failure by Operator to make such payments may result in disconnection of the Facility. In no event shall such disconnection relieve Operator of its obligation to pay monthly metering charges and Interconnection Facilities charges under this Agreement.

In the event that any data required for billing purposes hereunder are unavailable when required for such billing, the unavailable data shall be estimated by Dominion North Carolina Power, based upon historical data. Such billing shall be subject to any required adjustment in a subsequent billing month.

Operator agrees that Dominion North Carolina Power shall be entitled to withhold sufficient amounts due pursuant to this Agreement to offset (a) any damages to Dominion North Carolina Power resulting from any breach of this Agreement by Operator, and (b) any other amounts Operator owes Dominion North Carolina Power, including amounts arising from sales of electricity by Dominion North Carolina Power to Operator, metering charges and Interconnection Facilities charges.

In no event shall Dominion North Carolina Power be liable to Operator for any Contracted Capacity payments in excess of the amounts contracted for herein, regardless of the ultimate length of this Agreement or revisions to Schedule 19-FP or successor schedules. Operator hereby agrees to accept the Contracted Capacity payments as set forth herein as its sole and complete compensation for delivery of Contracted Capacity to Dominion North Carolina Power.

X - Force Majeure

Neither Party shall be considered in default under this Agreement or responsible to the other Party in tort, strict liability, contract or other legal theory for damages of any description for any interruption or failure of service or deficiency in the quality or quantity of service or any other failure to perform any of its obligations hereunder to the extent such failure occurs without fault or negligence on the part of that Party and is caused by factors beyond that Party's reasonable control, which by the exercise of reasonable diligence that Party is unable to prevent, avoid, mitigate or overcome, including without limitation storm, flood, lightning, earthquake, explosion, equipment failure, civil disturbance, labor dispute, act of God or public enemy, action or inaction of a court or public authority, fire, sabotage, war, explosion, curtailments, unscheduled withdrawal of facilities from operation for maintenance or repair or any other cause of similar nature beyond the reasonable control of that Party (any such event, "Force Majeure"). Solely economic hardship of either Party shall not constitute Force Majeure under this Agreement. Nor shall anything contained in this paragraph or elsewhere in this Agreement excuse Operator or Dominion North Carolina Power from strict compliance with the obligation of the Parties to comply with the terms of Article IX of this Exhibit B relating to timely payments.

Each Party shall have the obligation to operate in accordance with Good Utility Practice (as defined below) at all times and to use due diligence to overcome and remove any cause of failure to perform.

If a Party relies on the occurrence of an event of Force Majeure described above as a basis for being excused from performance of its obligations under this Agreement, then the Party relying on the Force Majeure event shall:

a) Provide within forty-eight (48) hours written notice of such Force Majeure event or potential Force Majeure to the other Party, giving an estimate of its expected duration and the probable impact on the performance of its obligations hereunder;

b) Exercise all reasonable efforts to continue to perform its obligations under this Agreement;

c) Expeditiously take action to correct or cure the Force Majeure event excusing performance; provided, however, that settlement of strikes or other labor disputes will be completely within the sole discretion of the Party affected by such strike or labor dispute;

d) Exercise all reasonable efforts to mitigate or limit damages to the other Party; and

e) Provide prompt notice to the other Party of the cessation of the Force Majeure event giving rise to its excuse from performance. All performance obligations hereunder shall be extended by a period equal to the term of the resultant delay.

If a Party responding to a Force Majeure event has the ability to obtain, for additional expenditures, expedited material deliveries or labor production which would allow a response to the event in a manner that is above and beyond Good Utility Practice, and such a response could shorten the duration of the Force Majeure event, the Party responding to the event may, at its discretion, present the other Party with the option of funding the expenditures for expediting material deliveries or labor production in an effort to reduce the duration of the event and economic hardship. Each such opportunity will be negotiated on a case-by-case basis by the Parties.

For purposes of this Agreement, "Good Utility Practice" shall mean any of the applicable practices, methods, standards, guides or acts: required by any governmental authority, regional or national reliability council, or national trade organization, including NERC, SERC, or the successor of any of them, as they may be amended from time to time whether or not the Party whose conduct is at issue is a member thereof; otherwise engaged in or approved by a significant portion of the electric utility industry during the relevant time period which in the exercise of reasonable judgment in light of the facts known or that should have been known at the time a decision was made, could have been expected to accomplish the desired result in a manner consistent with law, regulation, good business practices, generation, transmission and distribution reliability, safety, environmental protection, economy and expediency. Good Utility Practice is intended to be acceptable practices, methods, or acts generally accepted in the region,

or any other acts or practices as are reasonably necessary to maintain the reliability of the Transmission System (as defined in the Interconnection Agreement), or of the Facility, and is not intended to be limited to the optimum practices, methods, or acts to the exclusion of all others.

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I. APPLICABILITY AND AVAILABILITY

This schedule is applicable to any qualifying Cogenerator or Small Power Producer (Qualifying Facility) which desires to deliver all of its net electrical output to the Company, has either (1) generating facilities designated as new capacity as defined by 18 C.F.R. § 292.304(b)(1), or (2) hydroelectric generating facilities that meet the criteria of being owned or operated by a small power producer as defined in G.S. 62-3(27a), and enters into an agreement for the sale of net electrical output to the Company (Agreement).

Unless otherwise provided by a Commission order setting forth different availability dates, this schedule is available to any Qualifying Facility (otherwise eligible pursuant to the terms hereof) that by November 1, 2014 or the date upon which proposed rates are filed in Docket No. E-100 Sub 140, if later than November 1, 2014, (a) has obtained a certificate of public convenience and necessity for its facility from the Commission or filed a report of proposed construction with the Commission pursuant to Commission Rule 8-65, and (b) has indicated to the Company in writing that it is committed to selling the output of the facility to the Company pursuant to the terms of this schedule.

Where the Qualifying Facility (QF) elects to be compensated for firm deliveries in accordance with this schedule, the amount of capacity under contract and the initial term of contract shall be limited as follows:

- A. Where the QF operates hydroelectric generating facilities that meet the criteria of being owned or operated by a small power producer as defined in G.S. 62-3(27a), or where the QF operates non-hydroelectric QFs fueled by trash or methane derived from landfills, hog waste, poultry waste, solar, wind, and non-animal forms of biomass, the amount of capacity subject to compensation shall be no greater than 5,000 kW, and the amount of energy purchased during a given hour at rates applicable to firm deliveries shall be no greater than 5,000 kWh. The initial term of contract for such a QF shall be for a period of 5, 10, or 15 years, at the option of the QF.
- B. Where the QF is not defined under Paragraph I.A., the amount of capacity subject to compensation shall be no greater than 3,000 kW, and the amount of energy purchased during a given hour at rates applicable to firm deliveries shall be no greater than 3,000 kWh. The initial term of contract for such a QF shall be for a period of 5 years.

(Continued)

Filed 10-30-14 Electric-North Carolina

Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

(Continued)

I. APPLICABILITY AND AVAILABILITY (Continued)

Where the QF elects to be compensated for firm or non-firm deliveries in accordance with this schedule, the QF must begin deliveries to the Company within thirty months of February 21, 2014 to retain eligibility for the rates contained in this schedule; provided, however, a QF may be allowed additional time to begin deliveries of power to the Company if the QF facilities in question are nearly complete at the end of such thirty month period and the QF is able to demonstrate that it is making a good faith effort to complete its project in a timely manner. Where the QF elects an initial contract term of 10 or more years, such contract may be renewed for subsequent term(s), at the Company's option, based on substantially the same terms and provisions and at a rate either (1) mutually agreed upon by the parties negotiating in good faith and taking into consideration the Company's then avoided cost rates and other relevant factors or (2) set by arbitration.

This schedule is not applicable to a QF owned by a developer, or affiliate of a developer, who sells power to the Company from another facility located within one-half mile unless: (1) each facility provides thermal energy to different, unaffiliated hosts; (2) each facility provides thermal energy to the same host, and the host has multiple operations with distinctly different or separate thermal needs; or (3) each facility utilizes a renewable resource which may be subject to geographic siting limitations, such as hydroelectric, solar, or wind power facilities.

II. MONTHLY BILLING TO THE QF

All sales to the QF will be in accordance with any applicable filed rate schedule. In addition, where the QF contracts for sales to the Company, the QF will be billed a monthly charge equal to one of the following to cover the cost of meter reading and processing:

(Continued)

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

(Continued)

II. MONTHLY BILLING TO THE QF (Continued)

Metering required	<u>Charge</u>
One non-time-differentiated meter	\$17.24
One time-differentiated meter	\$35.55
Two time-differentiated meters	\$41.16

III. DEFINITION OF ON- AND OFF-PEAK HOURS

A. For Option A Rates the On-Peak Hours are:

<u>Summer</u>

(i) For the periods beginning at 12:00 midnight March 31 and ending at 12:00 midnight September 30:

The on-peak hours are defined as the hours between 10:00 am and 10:00 pm., Monday through Friday, excluding holidays considered as off-peak.

Non-Summer

(ii) For the periods beginning at 12:00 midnight September 30 and ending at 12:00 midnight March 31:

The on-peak hours are defined as those hours between 6:00 am and 1:00 pm., plus 4:00 p.m. through 9:00 p.m., Monday through Friday, excluding holidays considered as off-peak.

(Continued)

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

(Continued)

III. DEFINITION OF ON- AND OFF-PEAK HOURS (Continued)

B. For Option B Rates the On-Peak Hours are:

Summer

(i) For the periods beginning at 12:00 midnight May 31 and ending at 12:00 midnight September 30:

The on-peak hours are defined as the hours between 1:00 pm and 9:00 pm., Monday through Friday, excluding holidays considered as off-peak.

Non-Summer

(ii) For the periods beginning at 12:00 midnight September 30 and ending at 12:00 midnight May 31:

The on-peak hours are defined as those hours between 6:00 am and 1:00 pm. Monday through Friday, excluding holidays considered as off-peak.

C. Off-Peak Hours:

The off-peak hours in any month are defined as all hours not specified above as on-peak hours. All hours for the following holidays will be considered as off-peak: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the day after Thanksgiving, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered off-peak; when the holiday falls on a Sunday, the following Monday will be considered off-peak.

(Continued)

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(Continued)

IV. CONTRACT OPTIONS FOR DESIGNATING MODE OF OPERATION

The QF shall designate under contract its Mode of Operation from the following options, each of which determines the Company's method of payment.

- A. The QF may contract for the delivery of energy to the Company without reimbursement, designated as the Non-reimbursement Mode of Operation; or,
- В. The QF may contract for the delivery of non-firm energy to the Company (no payment for capacity). This option includes QFs that elect to contract to deliver non-firm energy to the Company on an as-available basis. Where the QF's generation facilities have an aggregate nameplate rating of 100 kW or less the QF may designate the Non-firm. Non-time-differentiated Mode of Operation. Regardless of nameplate rating the QF may designate the Non-firm, Time-differentiated Mode of Operation.
- C. The QF may contract for the delivery of firm energy and capacity to the Company. The level of capacity which the QF contracts to sell to the Company shall not exceed 5,000 kW, where the QF is defined under Paragraph I.A., or 3,000 kW otherwise. This capacity level, in kW, shall be referred to as the Contracted Capacity. When the QF elects to sell firm energy and capacity, the QF shall designate the Firm Mode of Operation.

V. PAYMENT FOR COMPANY PURCHASES OF NON-FIRM ENERGY

The QF may contract to receive payment for energy at rates to be determined with each revision of this schedule. These rates will be based upon the QF's Mode of Operation as described below. There are no capacity payments for the QFs that contract for non-firm energy.

(Continued)

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(Continued)

V. PAYMENT FOR COMPANY PURCHASES OF NON-FIRM ENERGY (Continued)

- A. Non-reimbursement Mode of Operation. Where the QF designates the Non-Reimbursement Mode of Operation, no payment will be made for energy delivered.
- B. Non-time-differentiated Mode of Operation. Where the QF's generation facilities have an aggregate nameplate rating of 100 kW or less and the QF designates the Non-Firm, Non-time-differentiated Mode of Operation, the following rates in cents per kWh are applicable:

3.843

C. Time-differentiated Mode of Operation. Where the QF designates the Time-differentiated Mode of Operation, the following On- and Off-peak rates in cents per kWh are applicable:

On-peak	4.541
Off-peak	3.455

All energy purchase rates will be further increased by 3.0% to account for line losses avoided by the Company, except that upon the effective date of any Schedule 19 that is subsequently amended and approved by the Commission, the line loss percentage applied shall be the percentage stated in the then-current Schedule 19. In lieu of 3.0% or the line loss percentage stated in the then-current Schedule 19, the QF may request that a site specific line loss percentage be determined with the QF bearing the cost of the study required.

(Continued)

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(Continued)

VI. PAYMENT FOR COMPANY PURCHASES OF FIRM ENERGY

QFs designating the Firm Mode of Operation will be eligible to receive purchase payments for the delivery of firm energy by the QF to the Company. The QF may contract to receive payments for firm energy based on A or B, below. Contract terms for 10 or 15 years are available only where the QF is defined under Paragraph I.A.

The QF may contract to receive payment for firm time-differentiated energy at rates to be determined with each revision of this schedule (Variable Rate). These rates in cents per kWh, which reflect the Company's estimated avoided energy cost for delivery of firm energy during 2013 or 2014, are as shown in the price tables below:

A. Option A: The QF may contract to receive energy purchase payments for the delivery of firm energy based upon fixed prices, as shown below in cents per kWh:

	Vorichia Pota	Fix	ed Long-Ter	m Rate
	Variable Rate	<u>5-Year</u>	<u>10-Year</u>	<u>15-Year</u>
On-Peak (¢/kWh)	4.541	5.055	5.526	5.813
Off-Peak (¢/kWh)	3.455	3.964	4.388	4.661

B. Option B: The QF may contract to receive energy purchase payments for the delivery of firm energy based upon fixed prices, as shown below in cents per kWh:

(Continued)

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Mar 30 2016

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VI. PAYMENT FOR COMPANY PURCHASES OF FIRM ENERGY (Continued)

		Fixe	d Long-Tern	n Rate
On-Peak (¢/kWh) Off-Peak (¢/kWh)	<u>Variable Rate</u> 4.663 3.614	<u>5-Year</u> 5.194 4.119	<u>10-Year</u> 5.675 4.549	<u>15-Year</u> 5.962 4.824

Any energy delivered above 100% up to 105% of QF's Contracted Capacity in any hour will be purchased at the then applicable non-firm energy rates under Schedule 19-FP. There will be no reimbursement for any energy delivered above 105% of QF's Contracted Capacity.

All energy purchase rates will be further increased by 3.0% to account for line losses avoided by the Company, except upon the effective date of any Schedule 19 that is subsequently amended and approved by the Commission, the line loss percentage applied shall be the percentage stated in the then-current Schedule 19. In lieu of 3.0% or the line loss percentage stated in the then-current Schedule 19, the QF may request that a site specific line loss percentage be determined with the QF bearing the cost of the study required.

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY

Company purchases of capacity are applicable only where the QF elects the Firm Mode of Operation. Capacity payments are applicable during on-peak hours only. Such QFs shall receive capacity purchase payments based on the applicable levelized capacity purchase price below, in cents per kWh, corresponding to the contract length in years. Contract terms for 10 or 15 years are available only where the QF is defined under Paragraph I.A.

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(Continued)

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY (Continued)

Option A:

For hydroelectric facilities with no storage capability and no other type of generation:

		Capacity Price	_
	<u>5-Year</u>	<u>10-Year 15-Year</u>	
On-Peak (¢/kWh) Summer	5.895	6.095 6.263	
On-Peak (¢/kWh) Non-summer	3.930	4.063 4.175	
For all other facilities:			
		Capacity Price	_
	<u>5-Year</u>	<u>10-Year</u> <u>15-Year</u>	
On-Peak (¢/kWh) Summer	3.537	3.657 3.758	
On-Peak (¢/kWh) Non-summer	2.358	2.438 2.505	

Option B:

For hydroelectric facilities with no storage capability and no other type of generation:

		Caj	pacity Price
On-Peak (¢/kWh) Summer On-Peak (¢/kWh) Non-summer	<u>5-Year</u> 13.524 5.214	<u>10-Year</u> 13.982 5.390	<u>15-Year</u> 14.368 5.539
For all other facilities:		Caj	pacity Price
On-Peak (¢/kWh) Summer On-Peak (¢/kWh) Non-summer	<u>5-Year</u> 8.115 3.128	<u>10-Year</u> 8.389 3.234	<u>15-Year</u> 8.621 3.323

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(Continued)

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY (Continued)

Payments will be made to the QF by applying the appropriate levelized capacity purchase price above to all kWh delivered to the Company during each on-peak hour, up to the 100% of the Contracted Capacity in such hour. There will be no compensation for capacity in excess of the QF's Contracted Capacity in an hour. This capacity price will be in accordance with the length of rate term for capacity sales so established in the contract.

VIII. PROVISIONS FOR COMPANY PURCHASE OF THE QF GENERATION

- A. The QF shall own and be fully responsible for the costs and performance of the QF's:
 - 1. Generating facility in accordance with all applicable laws and governmental agencies having jurisdiction;
 - 2. Control and protective devices as required by the Company on the QF's side of the meter.
- B. The sale of power to the Company by a QF at avoided cost rates pursuant to this Schedule 19-FP does not convey ownership to the Company of the renewable energy credits or green tags associated with the QF facility.
- C. Upon request by the Company, the Cogenerator or Small Power Producer must demonstrate that the facility is a Qualifying Facility as defined by PURPA.
- D. Interconnection procedures for the QF's generation interconnection are provided through the Internet at the Company's website; <u>http://www.dom.com/dominion-north-carolina-power/customer-service/rat</u> es-and-tariffs/pdf/term24.pdf.

Filed 10-30-14 Electric-North Carolina

Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

(Continued)

IX. MODIFICATION OF RATES AND OTHER PROVISIONS HEREUNDER

The provisions of this schedule, including the rates for purchase of energy and Contracted Capacity by the Company, are subject to modification at any time in the manner prescribed by law, and when so modified, shall supersede the rates and provisions hereof. However, payments to QFs with contracts for a specified term at payments established at the time the obligation is incurred shall remain at the payment levels established in their contract with the exception of the line loss percentage applied which shall be the percentage stated in the then-current Schedule 19.

If the QF terminates its contract to provide Contracted Capacity and energy to the Company prior to the expiration of the contract term, the QF shall, in addition to other liabilities, be liable to the Company for excess capacity and energy payments.

Such excess payments will be calculated by taking the difference between (1) the total capacity and energy payments already made by the Company to the QF and (2) capacity and energy payments calculated based on the levelized capacity and energy purchase price found in Paragraph VI and VII corresponding to the highest term option completed by the QF. These excess payments shall also include interest, from the time such excess payments were made, compounded annually at the rate equal to the Company's most current issue of long-term debt at the time of the contract's effective date.

X. TERM OF CONTRACT

The term of contract shall be such as may be mutually agreed upon but for not less than one year.

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EXHIBIT C

Exhibit C is a copy of Schedule 19-FP.

EXHIBIT D

Exhibit D is a map and written description identifying the specific location of the Facility and is provided by the Operator.

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Exhibit A



128 Snug Harbor Road, Hertford NC 27944 [Perquimans County]







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Mar 30 2016

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

Form 556 Certification of Qualifying Facility (QF) Status for a Small Power Production or Cogeneration Facility

1b Applicant street a 176 Mine Lake	d dress Court, Suite #100		
1c City Raleigh		1d State/provi NC	ince
1e Postal code 27615	1f Country (if not United States)		1g Telephone number (321) 202-3600
1h Has the instant fa	cility ever previously been certified as a C)F? Yes 🗌 N	lo 🔀
11 If yes, provide the	docket number of the last known QF filin	g pertaining to th	nis facility: QF
1j Under which certil	ication process is the applicant making t	his filing?	
Notice of self-ce (see note below	rtification /)	application for Co ee; see "Filing Fee	mmission certification (requires filing " section on page 3)
QF status. A noti notice of self-cert	If-certification is a notice by the applican ce of self-certification does not establish ification to verify compliance. See the "V b for more information.	a proceeding, and	the Commission does not review a
1k What type(s) of Q	status is the applicant seeking for its fac	ility? (check all th	at apply)
🔀 Qualifying small	power production facility status	ualifying cogene	ration facility status
	e and expected effective date(s) of this fi	-	
🔀 Original certifica	tion; facility expected to be installed by	<u>11/15/15</u> ar	nd to begin operation on 12/15/15
· · ·	reviously certified facility to be effective		
	of change(s) below, and describe chang	e(s) in the Miscell	aneous section starting on page 19)
	e and/or other administrative change(s)		
Change in ov	-	1	
	ecting plant equipment, fuel use, power		city and/or cogeneration thermal outpu
	prrection to a previous filing submitted o	h	
	plement or correction in the Miscellaneo		- · - · · · · · · · · · · · · · · · · ·
to the extent poss	ving three statements is true, check the b ble, explaining any special circumstance	s in the Miscellan	eous section starting on page 19.
🖵 previously grai	ility complies with the Commission's QF inted by the Commission in an order date date liscellaneous section starting on page 19	d	virtue of a waiver of certain regulations (specify any other relevant waiver
	lity would comply with the Commission' ith this application is granted	s QF requirement	s if a petition for waiver submitted
employment o	lity complies with the Commission's regulation of the second second second second second second second second s fundation of compliance via this form difficult of the second second second second second second second second s	ontemplated by	the structure of this form, that make

Mar 30 2016

FE	RC Form 556		Page 6 - All Fa			
	2a Name of contact person		2b Telephone number	8		
	Heath McLaughlin		(321) 202-3600	1		
	2c Which of the following describes	s the contact person's relation	nship to the applicant? (check one)	- <u></u>		
	🗌 Applicant (self) 🛛 🔀 Empl	loyee, owner or partner of a	pplicant authorized to represent the applicant	E E		
ō	Employee of a company affilia	ted with the applicant auth	orized to represent the applicant on this matter	ō		
lati	Lawyer, consultant, or other re	epresentative authorized to	represent the applicant on this matter			
E	2d Company or organization name (if applicant is an individual, check here and skip to line 2e)					
lfo	SOLNCPOWER10, LLC					
Contact Information	2e Street address (if same as Applicant, check here and skip to line 3a)					
Ŭ	2f City		2g State/province	Mar 30 2016		
	2h Postal code	2i Country (if not United S	tates)			
	2. Facility name	1 2 2019	<u>՟֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎֎</u>			
Ľ	3a Facility name SOLNCPOWER10, LLC					
Location						
Ca	3b Street address (if a street address	s does not exist for the facili	ty, check here and skip to line 3c)			
Ľ	128 Snug Harbor Road					
nd		····				
tification and	then you must specify the latitud the following formula to convert degrees + (minutes/60) + (secon	de and longitude coordinate to decimal degrees from d ds/3600). See the "Geogra	ess exists for your facility by checking the box in line as of the facility in degrees (to three decimal places). Egrees, minutes and seconds: decimal degrees = phic Coordinates" section on page 4 for help. If you perfying the geographic coordinates below is option	Use		
Facility Identi	Longitude 🗌 East (+)	degrees	Latitude Double South (+)			
ž	3d City (if unincorporated, check he	re and enter nearest city)	3e State/province			
	Hertford		NC			
ä	3f County (or check here for indepe	ndent city) 🗍 🛛 🛛 3g	Country (if not United States)	 		
ماما م	Perquimans					
,	Identify the electric utilities that are c	ontemplated to transact wi	th the facility.	nn 116 an 1, 1777 170		
Transacting Utilities	4a Identify utility interconnecting w Dominion North Carolina	•				
Util	4b Identify utilities providing wheel	ing service or check here if r	ione 🕅			
ည်						
ctit	4c Identify utilities purchasing the u	seful electric power output	pr check here if none			
ISA(Dominion North Carolina					
ran		mentary power, backup po	wer, maintenance power, and/or interruptible powe	r 2		
F	service or check here if none					
	Dominion North Carolina	Power				

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FERC Form 556

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Mar 30 2016

	least 10 percent equity interest in the facility, the	i provide the required i	monnacio	
two direct owners wit	h the largest equity interest in the facility.	Electric	utility or	lf Yes,
	Full level percent of divert even		ding	% equity
	Full legal names of direct owners	·······	ipany	interest
1) <u>SOLNCPOWER10, I</u>			No 🖂	
		Yes	No 🗌	
		Yes	No 🗌	<u></u>
4)		Yes	No 🗌	
5)		Yes 🗌	No 🗌	
6)	······································	Yes 🗌	No 🗌	<u></u>
7)		Yes 🗌	No 🔲	\$
8)		Yes 🗌	No 🗌	
9)		Yes 🗌	No 📋	<u>۽</u>
10)		Yes 🗌	No 📋	5
5b Upstream (i.e., indirect of the facility that both defined in section 3(22 1262(8) of the Public U	ontinue in the Miscellaneous section starting on p) ownership as of effective date or operation date (1) hold at least 10 percent equity interest in the 2) of the Federal Power Act (16 U.S.C. 796(22)), or h Itility Holding Company Act of 2005 (42 U.S.C. 164	: Identify all upstream facility, and (2) are elect tolding companies, as c 51(8)). Also provide the	(i.e., indire tric utilitie lefined in e percenta	ect) owners es, as section age of
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FE	RC F	orm 556				Page 8 - /	All Facilities
	ба	Describe	the primary energy input: (c	heck one ma	in category and, if applicabl	e, one subcategory)	
		🗌 Bioma	ass (specify)	🔀 R	enewable resources (specify)	Geothermal	
			Landfill gas		Hydro power - river	Fossil fuel (specify)	
			Manure digester gas		🔲 Hydro power - tidal	🔲 Coal (not was	ste)
			Municipal solid waste		Hydro power - wave	🔲 Fuel oil/diese	
			Sewage digester gas		🔀 Solar-photovoltaic	🔄 Natural gas (r	not waste)
			Wood		🔲 Solar - thermal	Other fossil fi	Jel
			Other biomass (describe on	page 19)	🔲 Wind	니 (describe on	page 19)
		U Waste	ce 🔲 Other (describe on	page 19)			
	6b	lf you spe	cified "waste" as the primar	y energy inp	ut in line 6a, indicate the typ	e of waste fuel used: (check o	one)
		Wasi	te fuel listed in 18 C.F.R. § 29	92.202(b) (sp	ecify one of the following)		
] Anthracite culm produced	l prior to July	/ 23, 1985		
			Anthracite refuse that has ash content of 45 percent		neat content of 6,000 Btu or l	ess per pound and has an av	/erage
			Bituminous coal refuse that average ash content of 25		rage heat content of 9,500 B nore	tu per pound or less and has	an
nput		Top or bottom subbituminous coal produced on Federal lands or on Indian lands that has been determined to be waste by the United States Department of the Interior's Bureau of Land Management (BLM) or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided that the applicant shows that the latter coal is an extension of that determined by BLM to be waste					
Energy Input	Coal refuse produced on Federal lands or on Indian lands that has been determined to be waste by t BLM or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided that applicant shows that the latter is an extension of that determined by BLM to be waste						
ш			Lignite produced in associ as a result of such a mining		e production of montan way	cand lignite that becomes ex	xposed
			Gaseous fuels (except nate	ural gas and s	synthetic gas from coal) (des	cribe on page 19)	
	Waste natural gas from gas or oil wells (describe on page 19 how the gas meets the requirements of 1 C.F.R. § 2.400 for waste natural gas; include with your filing any materials necessary to demonstrate compliance with 18 C.F.R. § 2.400)						
			Materials that a governme	nt agency ha	is certified for disposal by co	mbustion (describe on page	19)
			Heat from exothermic read	tions (descri	be on page 19) 🛛 🗍	Residual heat (describe on	page 19)
			Used rubber tires] Plastic ma	terials 🗌 Refinery	off-gas 🗌 Petroleu	m coke
Other waste energy input that has little or no commercial value and exists in the absence of facility industry (describe in the Miscellaneous section starting on page 19; include a discuss lack of commercial value and existence in the absence of the qualifying facility industry)						; include a discussion of the	
	 6c Provide the average energy input, calculated on a calendar year basis, in terms of Btu/h for the following fossil fuel energy inputs, and provide the related percentage of the total average annual energy input to the facility (18 C.F.R. § 292.202(j)). For any oil or natural gas fuel, use lower heating value (18 C.F.R. § 292.202(m)). 						
			Fuel		ual average energy ut for specified fuel	Percentage of total annual energy input	
			Natural gas	<u>mp</u>	0 Btu/h	o %	
			Oil-based fuels		0 Btu/h	0 %	
			Coal		0 Btu/h	0 %	
			L		·		1

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delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads and/o lines 7b through 7e are negligible, enter zero for those lines.	
7a The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	5,000 kW
7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your	
reported parasitic station power.	o kW
7c Electrical losses in interconnection transformers	12.5 kW
7d Electrical losses in AC/DC conversion equipment, if any	o kW
7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection with the utility	12.5 kW
7f Total deductions from gross power production capacity = 7b + 7c + 7d + 7e	25.0 kW
7g Maximum net power production capacity = 7a - 7f	4,975.0 kW
7b Description of facility and primary components: Describe the facility and its operation. Identify a	ll hoilers heat

7h Description of facility and primary components: Describe the facility and its operation. Identify all boilers, heat recovery steam generators, prime movers (any mechanical equipment driving an electric generator), electrical generators, photovoltaic solar equipment, fuel cell equipment and/or other primary power generation equipment used in the facility. Descriptions of components should include (as applicable) specifications of the nominal capacities for mechanical output, electrical output, or steam generation of the identified equipment. For each piece of equipment identified, clearly indicate how many pieces of that type of equipment are included in the plant, and which components are normally operating or normally in standby mode. Provide a description of how the components operate as a system. Applicants for cogeneration facilities do not need to describe operations of systems that are clearly depicted on and easily understandable from a cogeneration facility's attached mass and heat balance diagram; however, such applicants should provide any necessary description needed to understand the sequential operation of the facility depicted in their mass and heat balance diagram. If additional space is needed, continue in the Miscellaneous section starting on page 19.

The system is a photovoltaic ground-mounted solar facility comprised of approximately 22,000 305Wp solar modules, mounted on racks, utilizing no more than 4 central inverters to convert DC power produced to AC power for safe and reliable delivery into the electric grid.

Mar 30 2016

Information Required for Small Power Production Facility

If you indicated in line 1k that you are seeking qualifying small power production facility status for your facility, then you must respond to the items on this page. Otherwise, skip page 10.

Certification of Compliance with Size Limitations	Pursuant to 18 C.F.R. § 292.204(a), with the power production capaci resource, are owned by the same p megawatts. To demonstrate comp from this size limitation under the (Pub. L. 101-575, 104 Stat. 2834 (19 through 8e below (as applicable).	ty of any other small pov person(s) or its affiliates, a pliance with this size limi Solar, Wind, Waste, and (ver production facilities that use and are located at the same site tation, or to demonstrate that y Geothermal Power Production I	e the same energy e, may not exceed 80 your facility is exempt ncentives Act of 1990
	8a Identify any facilities with elect equipment of the instant facility, a at least a 5 percent equity interest.	nd for which any of the e		
	Check here if no such facilities exist	t. 🔀		
	Facility location (city or county, state)	Root docket # (if any)	Common owner(s)	Maximum net power production capacity
om tati	1)	QF		kW
li Č	2)	QF		kW
e L	3)	QF		kw
tification with Size	Check here and continue in th	e Miscellaneous section	starting on page 19 if addition	al space is needed
Cert v	exemption from the size limitation Are you seeking exemption from the Yes (continue at line 8c be 8c Was the original notice of self-or before December 31, 1994? Yes 8d Did construction of the facility 8e If you answered No in line 8d, if the facility, taking into account all	ne size limitations in 18 C elow) certification or applicatio No commence on or before ndicate whether reasona factors relevant to constr	F.R. § 292.204(a) by virtue of th No (skip lines 8c through 8 n for Commission certification December 31, 1999? Yes ble diligence was exercised to uction? Yes No If yo	e Incentives Act? e) of the facility filed on or No ward the completion of bu answered Yes, provide
	a brief narrative explanation in the particular, describe why construction toward completion of the facility.	on started so long after t	he facility was certified) and the	e diligence exercised
Certification of Compliance with Fuel Use Requirements	Pursuant to 18 C.F.R. § 292.204(b), amounts, for only the following pu prevention of unanticipated equip the public health, safety, or welfare used for these purposes may not ex period beginning with the date the	rposes: ignition; start-up ment outages; and allevi , which would result fror xceed 25 percent of the t	; testing; flame stabilization; co ation or prevention of emerger n electric power outages. The a otal energy input of the facility	ntrol use; alleviation or icies, directly affecting amount of fossil fuels during the 12-month
P Re	9a Certification of compliance with	n 18 C.F.R. § 292.204(b) w	ith respect to uses of fossil fuel	•
ion (Use	Applicant certifies that the	facility will use fossil fuel	s <i>exclusively</i> for the purposes lis	ted above.
cati	9b Certification of compliance with	n 18 C.F.R. § 292.204(b) w	rith respect to amount of fossil	fuel used annually:
Certifica with Fue	Applicant certifies that the percent of the total energy facility first produces electri	input of the facility durir		

Information Required for Cogeneration Facility

If you indicated in line 1k that you are seeking qualifying cogeneration facility status for your facility, then you must respond to the items on pages 11 through 13. Otherwise, skip pages 11 through 13.

	energy (such as heat or use of energy. Pursuant cycle cogeneration facili thermal application or p	192.202(c), a cogeneration facility produces electric energy and forms of useful thermal steam) used for industrial, commercial, heating, or cooling purposes, through the sequential t to 18 C.F.R. § 292.202(s), "sequential use" of energy means the following: (1) for a topping- ity, the use of reject heat from a power production process in sufficient amounts in a process to conform to the requirements of the operating standard contained in 18 C.F.R. § ottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal process production.
	10a What type(s) of cog	generation technology does the facility represent? (check all that apply)
	Topping-cycle	e cogeneration
General Cogeneration Information	other requirements balance diagram de meet certain requir	te the sequential operation of the cogeneration process, and to support compliance with s such as the operating and efficiency standards, include with your filing a mass and heat epicting average annual operating conditions. This diagram must include certain items and rements, as described below. You must check next to the description of each requirement at you have complied with these requirements.
	Check to certify compliance with indicated requirement	Requirement
	and cated requirement	Diagram must show orientation within system piping and/or ducts of all prime movers,
		heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process.
		Any average annual values required to be reported in lines 10b, 12a, 13a, 13b, 13d, 13f, 14a, 15b, 15d and/or 15f must be computed over the anticipated hours of operation.
eral Co Inform		Diagram must specify all fuel inputs by fuel type and average annual rate in Btu/h. Fuel for supplementary firing should be specified separately and clearly labeled. All specifications of fuel inputs should use lower heating values.
iene		Diagram must specify average gross electric output in kW or MW for each generator.
0		Diagram must specify average mechanical output (that is, any mechanical energy taken off of the shaft of the prime movers for purposes not directly related to electric power generation) in horsepower, if any. Typically, a cogeneration facility has no mechanical output.
		At each point for which working fluid flow conditions are required to be specified (see below), such flow condition data must include mass flow rate (in lb/h or kg/s), temperature (in °F, R, °C or K), absolute pressure (in psia or kPa) and enthalpy (in Btu/lb or kJ/kg). Exception: For systems where the working fluid is <i>liquid only</i> (no vapor at any point in the cycle) and where the type of liquid and specific heat of that liquid are clearly indicated on the diagram or in the Miscellaneous section starting on page 19, only mass flow rate and temperature (not pressure and enthalpy) need be specified. For reference, specific heat at standard conditions for pure liquid water is approximately 1.002 Btu/ (lb*R) or 4.195 kJ/(kg*K).
		Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine.
		Diagram must specify working fluid flow conditions at delivery to and return from each thermal application.
		Diagram must specify working fluid flow conditions at make-up water inputs.

Mar 30 2016

EPAct 2005 Requirements for Fundamental Use

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	EPAct 2005 cogeneration facilities: The Energy Policy Act of 2005 (EPAct 2005) established a new section 210(n) of the Public Utility Regulatory Policies Act of 1978 (PURPA), 16 USC 824a-3(n), with additional requirements for any qualifying cogeneration facility that (1) is seeking to sell electric energy pursuant to section 210 of PURPA and (2) was either not a cogeneration facility on August 8, 2005, or had not filed a self-certification or application for Commission certification of QF status on or before February 1, 2006. These requirements were implemented by the Commission in 18 C.F.R. § 292.205(d). Complete the lines below, carefully following the instructions, to demonstrate whether these additional requirements apply to your cogeneration facility and, if so, whether your facility complies with such requirements.		OFFICIAL CO
	11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes 🗌 No 🗌	Ö	
	11b Was the initial filing seeking certification of your facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006? Yes No	4	016
S	If the answer to either line 11a or 11b is Yes, then continue at line 11c below. Otherwise, if the answers to both lines 11a and 11b are No, skip to line 11e below.		Mar 30 2016
acilitie	11c With respect to the design and operation of the facility, have any changes been implemented on or after February 2, 2006 that affect general plant operation, affect use of thermal output, and/or increase net power production capacity from the plant's capacity on February 1, 2006?	0	Mar
й С	Yes (continue at line 11d below)		
nergy Output from Cogeneration Facilities	No. Your facility is not subject to the requirements of 18 C.F.R. § 292.205(d) at this time. However, it may be subject to to these requirements in the future if changes are made to the facility. At such time, the applicant would need to recertify the facility to determine eligibility. Skip lines 11d through 11j.		
oger	11d Does the applicant contend that the changes identified in line 11c are not so significant as to make the facility a "new" cogeneration facility that would be subject to the 18 C.F.R. § 292.205(d) cogeneration requirements?	Ø	
from C	Yes. Provide in the Miscellaneous section starting on page 19 a description of any relevant changes made to the facility (including the purpose of the changes) and a discussion of why the facility should not be considered a "new" cogeneration facility in light of these changes. Skip lines 11e through 11j.		
utput	No. Applicant stipulates to the fact that it is a "new" cogeneration facility (for purposes of determining the applicability of the requirements of 18 C.F.R. § 292.205(d)) by virtue of modifications to the facility that were initiated on or after February 2, 2006. Continue below at line 11e.		
N N	11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?	Ó	
nerg	Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below.	-2007	
ofEl	No. Applicant certifies that energy will <i>not</i> be sold pursuant to section 210 of PURPA. Applicant also certifies its understanding that it must recertify its facility in order to determine compliance with the requirements of 18 C.F.R. § 292,205(d) <i>before</i> selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j.		
	11f Is the net power production capacity of your cogeneration facility, as indicated in line 7g above, less than or equal to 5,000 kW?	0	
	Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j.		
	No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g.		

of Energy Output from Cogeneration Facilities (continued)

EPAct 2005 Requirements for Fundamental Use

Lines 11g through 11k below guide the applicant through the process of demonstrating compliance with the requirements for "fundamental use" of the facility's energy output. 18 C.F.R. § 292.205(d)(2). Only respond to the lines on this page if the instructions on the previous page direct you to do so. Otherwise, skip this page.

18 C.F.R. § 292.205(d)(2) requires that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility. If you were directed on the previous page to respond to the items on this page, then your facility is an EPAct 2005 cogeneration facility that is subject to this "fundamental use" requirement.

The Commission's regulations provide a two-pronged approach to demonstrating compliance with the requirements for fundamental use of the facility's energy output. First, the Commission has established in 18 C.F.R. § 292.205(d)(3) a "fundamental use test" that can be used to demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Under the fundamental use test, a facility is considered to comply with 18 C.F.R. § 292.205(d)(2) if at least 50 percent of the facility's total annual energy output (including electrical, thermal, chemical and mechanical energy output) is used for industrial, commercial, residential or institutional purposes.

Second, an applicant for a facility that does not pass the fundamental use test may provide a narrative explanation of and support for its contention that the facility nonetheless meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility.

Complete lines 11g through 11j below to determine compliance with the fundamental use test in 18 C.F.R. § 292.205(d)(3). Complete lines 11g through 11j even if you do not intend to rely upon the fundamental use test to demonstrate compliance with 18 C.F.R. § 292.205(d)(2).

MWh
MWh
0 %

11j Is the response in line 11i greater than or equal to 50 percent?

Yes. Your facility complies with 18 C.F.R. § 292.205(d)(2) by virtue of passing the fundamental use test provided in 18 C.F.R. § 292.205(d)(3). Applicant certifies its understanding that, if it is to rely upon passing] the fundamental use test as a basis for complying with 18 C.F.R. § 292.205(d)(2), then the facility must comply with the fundamental use test both in the 12-month period beginning with the date the facility first

produces electric energy, and in all subsequent calendar years.

No. Your facility does not pass the fundamental use test. Instead, you must provide in the Miscellaneous section starting on page 19 a narrative explanation of and support for why your facility meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a QF to its host facility. Applicants providing a narrative explanation of why their facility should be found to comply with 18 C.F.R. § 292.205(d)(2) in spite of non-compliance with the fundamental use test may want to review paragraphs 47 through 61 of Order No. 671 (accessible from the Commission's QF website at www.ferc.gov/QF), which provide discussion of the facts and circumstances that may support their explanation. Applicant should also note that the percentage reported above will establish the standard that that facility must comply with, both for the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years. *See* Order No. 671 at paragraph 51. As such, the applicant should make sure that it reports appropriate values on lines 11g and 11h above to serve as the relevant annual standard, taking into account expected variations in production conditions.

actility i actility i ssion's its for f)(3) a " undam y's tota lustrial applica ort for d mec , reside accour able to nes 11 3). Cor e comp nt of el olant le , reside reside reside reside (11g sponse Usefulness of Topping-Cycle Thermal Output

Information Required for Topping-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents topping-cycle cogeneration technology, then you must respond to the items on pages 14 and 15. Otherwise, skip pages 14 and 15.

The thermal energy output of a topping-cycle cogeneration facility is the net energy made available to an industrial or commercial process or used in a heating or cooling application. Pursuant to sections 292.202(c), (d) and (h) of the Commission's regulations (18 C.F.R. §§ 292.202(c), (d) and (h)), the thermal energy output of a qualifying topping-cycle cogeneration facility must be useful. In connection with this requirement, describe the thermal output of the topping-cycle cogeneration facility by responding to lines 12a and 12b below.

12a Identify and describe each thermal host, and specify the annual average rate of thermal output made available to each host for each use. For hosts with multiple uses of thermal output, provide the data for each use in separate rows.
Average annual rate of

	Name of entity (thermal host) taking thermal output	Thermal host's relationship to facility; Thermal host's use of thermal output	attributable to use (net of heat contained in process return or make-up water)
1)		Select thermal host's relationship to facility	
<u>"</u>	· · · · · · · · · · · · · · · · · · ·	Select thermal host's use of thermal output	Btu/h
2)		Select thermal host's relationship to facility	
-)		Select thermal host's use of thermal output	Btu/h
3)		Select thermal host's relationship to facility	
"		Select thermal host's use of thermal output	Btu/h
4)		Select thermal host's relationship to facility	
Ŧ/		Select thermal host's use of thermal output	Btu/h
5)		Select thermal host's relationship to facility	
<u>"</u>		Select thermal host's use of thermal output	Btu/h
6)		Select thermal host's relationship to facility	
"		Select thermal host's use of thermal output	Btu/h

12b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each use of the thermal output identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's use of thermal output is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: if you have previously received a Commission certification approving a specific use of thermal output related to the instant facility, then you need only provide a brief description of that use and a reference by date and docket number to the order certifying your facility with the indicated use. Such exemption may not be used if any change creates a material deviation from the previously authorized use.) If additional space is needed, continue in the Miscellaneous section starting on page 19.

	Applicants for facilities representing topping-cycle technology must demonstrate corrected operating standard and, if applicable, efficiency standard. Section 292.205(a)(1) regulations (18 C.F.R. § 292.205(a)(1)) establishes the operating standard for topping-operating the useful thermal energy output must be no less than 5 percent of the total energy of (18 C.F.R. § 292.205(a)(2)) establishes the efficiency standard for topping-cycle cogenerinstallation commenced on or after March 13, 1980: the useful power output of the far thermal energy output must (A) be no less than 42.5 percent of the total energy input facility; and (B) if the useful thermal energy output is less than 15 percent of the total energy input facility; and (B) if the useful thermal energy output is less than 15 percent of the total energy input facility; and (B) if the total energy input of natural gas and oil to the facility compliance with the topping-cycle operating and/or efficiency standards, or to demone exempt from the efficiency standard based on the date that installation commenced, 13I below. If you indicated in line 10a that your facility represents <i>both</i> topping-cycle and bottom technology, then respond to lines 13a through 13I below considering only the energy attributable to the topping-cycle portion of your facility. Your mass and heat balance which mass and energy flow values and system components are for which portion (to cogeneration system.	of the Commission's cycle cogeneration facilities: utput. Section 292.205(a)(2) eration facilities for which cility plus one-half the useful of natural gas and oil to the energy output of the facility, y. To demonstrate instrate that your facility is respond to lines 13a through hing-cycle cogeneration inputs and outputs diagram must make clear			
	13a Indicate the annual average rate of useful thermal energy output made available				
σ	to the host(s), net of any heat contained in condensate return or make-up water	Btu/h			
on an	13b Indicate the annual average rate of net electrical energy output	kW			
og : ati	13c Multiply line 13b by 3,412 to convert from kW to Btu/h	1.00			
Topping-Cycle Operating and Efficiency Value Calculation		0 Btu/h			
	13d Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production				
	(this value is usually zero)	hp			
	13e Multiply line 13d by 2,544 to convert from hp to Btu/h		10		
Va Va	13f Indicate the annual average rate of energy input from natural gas and oil	<u>0 Btu/h</u>			
ng-C) ency	131 Indicate the annual average rate of energy input from natural gas and on	Btu/h			
	13g Topping-cycle operating value = 100 * 13a / (13a + 13c + 13e)				
	13h Topping-cycle efficiency value = 100 * (0.5*13a + 13c + 13e) / 13f	0 %	10		
оЩ		0 %			
	13i Compliance with operating standard: Is the operating value shown in line 13g gre				
	Yes (complies with operating standard)				
	13j Did installation of the facility in its current form commence on or after March 13, 1980?				
	Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.205(a)(2). Demonstrate compliance with the efficiency requirement by responding to line 13k or 13l, as applicable, below.				
	No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13l.				
	13k Compliance with efficiency standard (for low operating value): If the operating value shown in line 13g is less than 15%, then indicate below whether the efficiency value shown in line 13h greater than or equal to 45%:				
	Yes (complies with efficiency standard) No (does not comply with a standard)	th efficiency standard)			
	13i Compliance with efficiency standard (for high operating value): If the operating vagreater than or equal to 15%, then indicate below whether the efficiency value shown equal to 42.5%:				
	Yes (complies with efficiency standard) No (does not comply with a standard)	h efficiency standard)			

Mar 30 2016

Information Required for Bottoming-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents bottoming-cycle cogeneration technology, then you must respond to the items on pages 16 and 17. Otherwise, skip pages 16 and 17.

The thermal energy output of a bottoming-cycle cogeneration facility is the energy related to the process(es) from which at least some of the reject heat is then used for power production. Pursuant to sections 292,202(c) and (e) of the Commission's regulations (18 C.F.R. § 292.202(c) and (e)), the thermal energy output of a qualifying bottomingcycle cogeneration facility must be useful. In connection with this requirement, describe the process(es) from which at least some of the reject heat is used for power production by responding to lines 14a and 14b below.

14a Identify and describe each thermal host and each bottoming-cycle cogeneration process engaged in by each host. For hosts with multiple bottoming-cycle cogeneration processes, provide the data for each process in separate rows. Has the energy input to

Name of entity (thermal host) performing the process from

Usefulness of Bottoming-Cycle **Thermal Output**

	which at least some of the reject heat is used for power production	Thermal host's relationship to facility; Thermal host's process type	of increasing power production capacity? (if Yes, describe on p. 19)
1)		Select thermal host's relationship to facility	Yes No 🗌
ľ		Select thermal host's process type	
2)		Select thermal host's relationship to facility	Yes No 🗆
<i>2)</i>		Select thermal host's process type	
3)		Select thermal host's relationship to facility	Yes No No
5)		Select thermal host's process type	

Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed

14b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each process identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific bottoming-cycle process related to the instant facility, then you need only provide a brief description of that process and a reference by date and docket number to the order certifying your facility with the indicated process. Such exemption may not be used if any material changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section starting on page 19.

the thermal host been

augmented for purposes

Bottoming-Cycle Operating and

Applicants for facilities representing bottoming-cycle technology and for which installation commenced on or after March 13, 1990 must demonstrate compliance with the bottoming-cycle efficiency standards. Section 292,205(b) of the Commission's regulations (18 C.F.R. § 292.205(b)) establishes the efficiency standard for bottoming-cycle cogeneration facilities: the useful power output of the facility must be no less than 45 percent of the energy input of natural gas and oil for supplementary firing. To demonstrate compliance with the bottoming-cycle efficiency standard (if applicable), or to demonstrate that your facility is exempt from this standard based on the date that installation of the facility began, respond to lines 15a through 15h below.

If you indicated in line 10a that your facility represents both topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 15a through 15h below considering only the energy inputs and outputs attributable to the bottoming-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion of the cogeneration system (topping or bottoming).

15a	Did installation of th	e facility in its curre	nt form commence on	or after March 13, 1980?
-----	------------------------	-------------------------	---------------------	--------------------------

15a Did installation of the facility in its current form commence on or after March 13 Pres. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.20 with the efficiency requirement by responding to lines 15b through 15h below	5(b). Demonstrate complian
No. Your facility is exempt from the efficiency standard. Skip the rest of page	17.
15b Indicate the annual average rate of net electrical energy output	kW
15c Multiply line 15b by 3,412 to convert from kW to Btu/h	0 Btu
15d Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero)	
15e Multiply line 15d by 2,544 to convert from hp to Btu/h	hp 0 Btu
15f Indicate the annual average rate of supplementary energy input from natural gas or oil	· · · · · · · · · · · · · · · · · · ·
15g Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f	0 %

Mar 30 2016

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Certificate of Completeness, Accuracy and Authority

Applicant must certify compliance with and understanding of filing requirements by checking next to each item below and signing at the bottom of this section. Forms with incomplete Certificates of Completeness, Accuracy and Authority will be rejected by the Secretary of the Commission.

Signer identified below certifies the following: (check all items and applicable subitems)

He or she has read the filing, including any information contained in any attached documents, such as cogeneration mass and heat balance diagrams, and any information contained in the Miscellaneous section starting on page 19, and knows its contents.

He or she has provided all of the required information for certification, and the provided information is true as stated, to the best of his or her knowledge and belief.

He or she possess full power and authority to sign the filing; as required by Rule 2005(a)(3) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(a)(3)), he or she is one of the following: (check one)

		The person on	whose	behalf t	the filing	is made
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An officer of the corporation, trust, association, or other organized group on behalf of which the filing is made

An officer, agent, or employe of the governmental authority, agency, or instrumentality on behalf of which the filing is made

 A representative qualified to practice before the Commission under Rule 2101 of the Commission's Rules of
Practice and Procedure (18 C.F.R. § 385.2101) and who possesses authority to sign

He or she has reviewed all automatic calculations and agrees with their results, unless otherwise noted in the Miscellaneous section starting on page 19.

He or she has provided a copy of this Form 556 and all attachments to the utilities with which the facility will niterconnect and transact (see lines 4a through 4d), as well as to the regulatory authorities of the states in which the

facility and those utilities reside. See the Required Notice to Public Utilities and State Regulatory Authorities section on page 3 for more information.

Provide your signature, address and signature date below. Rule 2005(c) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(c)) provides that persons filing their documents electronically may use typed characters representing his or her name to sign the filed documents. A person filing this document electronically should sign (by typing his or her name) in the space provided below.

Your Signature	Your address	Date
	176 Mine Lake Court, Suite 100	
Heath McLaughlin	Raleigh, NC 27601	1/9/2015

Audit Notes		
Commission Staff Use Only:		

Miscellaneous

Use this space to provide any information for which there was not sufficient space in the previous sections of the form to provide. For each such item of information *clearly identify the line number that the information belongs to*. You may also use this space to provide any additional information you believe is relevant to the certification of your facility.

Your response below is not limited to one page. Additional page(s) will automatically be inserted into this form if the length of your response exceeds the space on this page. Use as many pages as you require.

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EXHIBIT E

Exhibit E is the "Qualifying Facility" Certification to be provided by the Operator.

OR

If Facility is less than 1MW, Owner may submit the following statement as Exhibit E that the Facility qualifies as a Qualifying Facility (QF) under federal law.

Federal law exempts small power production or cogeneration facilities with net power production capacities of 1 MW or less from certain certification requirements in order to qualify as a qualifying facility ("QF" or "Qualifying Facility"). Therefore, <u>[QF Name Here]</u> submits the Facility is exempt from the certification requirements, but submits that the Facility qualifies as a Qualifying Facility under federal law set forth in the Public Utility Regulatory Policies Act of 1978 ("PURPA") (codified at 16 U.S.C. § 824a-3).

Name

Title

EXHIBIT F

Exhibit F is the Certificate of Public Convenience and Necessity to be provided by the Operator_{$\frac{1}{2}$} or evidence that no such certificate is required under North Carolina law in the form of a report of proposed construction to the Commission pursuant to Commission Rule 8-65.

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Mar 30 2016

STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. SP-4312, SUB 0

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of Application of SolNCPower10, LLC, for a Certificate of Public Convenience and Necessity to Construct a 5-MW Solar Facility in Perguimans County, North Carolina

ORDER ISSUING CERTIFICATE

BY THE COMMISSION: On September 22, 2014, SolNCPower10, LLC (Applicant), filed an application pursuant to Commission Rule R8-64(b) seeking a certificate of public convenience and necessity pursuant to G.S. 62-110.1 for construction of a 5-MW_{AC} solar photovoltaic electric generating facility to be located in Perquimans County, North Carolina. The Applicant plans to sell the electricity generated by this facility to Dominion North Carolina Power (DNCP).

On September 24, 2014, the Commission issued an Order Requiring Publication of Notice.

On September 26, 2014, the Applicant filed a certificate of service stating that a copy of the application and the related public notice were provided to DNCP. On November 6, 2014, the Applicant filed a revised certificate of service indicating the application and public notice were mailed to DNCP on September 24, 2014.

On October 15, 2014, the Applicant filed an affidavit of publication from The Daily Advance (Elizabeth City, NC) stating that the publication of notice was completed on October 14, 2014. No complaints have been received.

On November 3, 2014, the State Clearinghouse filed initial comments stating that additional information was required by the Department of Cultural Resources in order to complete its review.

On November 13, 2014, the State Clearinghouse filed additional comments. The comments included a statement from the Department of Cultural Resources that the Applicant had responded to its comments. Because of the nature of the comments, the cover letter indicated that no further State Clearinghouse review action by the Commission was required for compliance with the North Carolina Environmental Policy Act.

The Public Staff presented this matter to the Commission at its Regular Staff Conference on November 24, 2014. The Public Staff stated that it had reviewed the application and determined it to be in compliance with the requirements of G.S. 62-110.1(a) and Commission Rule R8-64. Therefore, the Public Staff recommended issuance of the requested certificate for the facility.

Based upon the foregoing, and the recommendation of the Public Staff, the Commission finds good cause to approve the application and issue the requested certificate.

IT IS, THEREFORE, ORDERED as follows:

1. That the application filed by SolNCPower10, LLC, for a certificate of public convenience and necessity shall be, and is hereby, approved.

2. That Appendix A shall constitute the certificate of public convenience and necessity issued to SolNCPower10, LLC, for the 5-MW_{AC} solar photovoltaic electric generating facility located in Perquimans County, at 128 Snug Harbor Road, Hertford, North Carolina.

ISSUED BY ORDER OF THE COMMISSION.

This the <u>26th</u> day of November, 2014.

NORTH CAROLINA UTILITIES COMMISSION

Paige & morvis

Paige J. Morris, Deputy Clerk

APPENDIX A

STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. SP-4312, SUB 0

SolNCPower10, LLC 176 Mine Lake Court, Suite #100 Raleigh, North Carolina 27615

is hereby issued this

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY PURSUANT TO G.S. 62-110.1

for a 5-MW_{AC} solar photovoltaic electric generating facility

located

in Perquimans County, at 128 Snug Harbor Road, Hertford, North Carolina,

subject to all orders, rules, regulations and conditions as are now or may hereafter be lawfully made by the North Carolina Utilities Commission.

ISSUED BY ORDER OF THE COMMISSION.

This the <u>26th</u> day of November, 2014.

NORTH CAROLINA UTILITIES COMMISSION

Paige f. morvio

Paige J. Morris, Deputy Clerk