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December 10, 2009

VIA OVERNIGHT DELIVERY

Ms. Renne Vance, Chief Clerk
North Carolina Utilities Commission
430 North Salisbury Street
Dobbs Building
Raleigh, North Carolina 27603-5918

FILED

DEC 11 2009

Clerk's Office
N.C. Utilities Commission

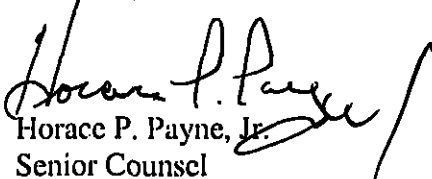
Re: Integrated Resource Plan of Dominion North Carolina Power
Docket No. E-100, Sub 124

Dear Ms. Vance:

Pursuant to the Commission's October 19, 2009 *Order Scheduling Hearings on 2009 Integrated Resource Plans and REPS Compliance Plans and Consolidating Dockets for Decision*, Virginia Electric and Power Company d/b/a Dominion North Carolina Power encloses for filing an original and thirty (30) copies of the direct testimony and exhibits of Shannon L. Venable, M. Masood Ahmad, Michael J. Jesensky, and Aaron A. Reed in the above.

Please do not hesitate to contact me if you have any questions.

Very truly yours,


Horace P. Payne, Jr.
Senior Counsel

Enclosures

(ST)
AG
7-Comm
Bennink
Kirby
Watson
Hawer
Seasoms
Kito
Ericson
Jones
Gruher
3-ps Legal
8-ps AGG
2-ps GC/RS
3-ps E/et.

DEC 11 2009Clerk's Office
N.C. Utilities Commission

**DIRECT TESTIMONY
OF
SHANNON L. VENABLE
ON BEHALF OF
VIRGINIA ELECTRIC AND POWER COMPANY
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-100, SUB 118
DOCKET NO. E-100, SUB 124**

1 Q. Please state your name, and business address, and describe your position with
2 Virginia Electric and Power Company.

3 A. My name is Shannon L. Venable and my business address is 120 Tredegar Street,
4 Richmond, Virginia 23219. I am the Vice President of Integrated Resource Planning for
5 Virginia Electric and Power Company d/b/a Dominion North Carolina Power (the
6 "Company"). I am responsible for the development of initiatives that integrate capacity
7 plans and demand-side resources in support of the Company's regulatory and strategic
8 initiatives. As part of my duties, I also oversee the Company's peak demand and energy
9 forecasts over a 15-year period and the analysis of demand-side management ("DSM")
10 programs. A statement of my background and qualifications is attached as Appendix A.

11 Q. What is the purpose of your testimony in this proceeding?

12 A. On September 1, 2009, the Company filed its 2009 Integrated Resource Plan ("2009
13 Plan") in accordance with § 62-2 and § 62-110.1 of the North Carolina General Statutes
14 and Rule R8-60 of the North Carolina Utilities Commission's ("NCUC" or
15 "Commission") Rules. Certain information was not properly labeled as confidential and
16 therefore replacement pages were filed with the Commission on September 15, 2009.
17 The 2009 Plan was filed as the Company's annual update to its 2008 Integrated Resource
18 Plan ("2008 Plan") that was filed on August 29, 2008. The purpose of my testimony is to

1 expound Chapter 1 of the 2009 Plan, provide an overview of the Integrated Resource
2 Planning ("IRP") process, and discuss the Company's plan for future DSM and
3 Renewable Energy and Energy Efficiency Portfolio Standard ("REPS") filings. Both the
4 2008 Plan and the 2009 Plan were prepared under my supervision and direction and are
5 accurate and complete to the best of my knowledge.

6 **Q. Will the Company present other witnesses in this proceeding?**

7 A. Yes. M. Masood Ahmad, Director of Integrated Resource Planning, will present the
8 Company's load forecast as well as its proposed supply-side resources, as evaluated and
9 selected in the 2009 Plan. Michael J. Jesensky, Director of Demand-Side Analysis, will
10 detail the Company's demand-side options including its current, proposed, and future
11 DSM programs. Aaron A. Reed, Business Development Manager, will discuss the
12 Company's 2009 REPS Compliance Plan that was filed with the 2009 Plan as NC IRP
13 Addendum 1 pursuant to Rule R8-67 (b) of the Commission's Rules.

14 **Q. Please provide some background on the Company.**

15 A. The Company currently serves approximately 2.4 million electric customers in Virginia
16 and North Carolina. The Company's electric service area covers approximately 30,000
17 square miles in Virginia and North Carolina.

18 The Company's regulated electric portfolio consists of 18,245 megawatts ("MW") of
19 generation capacity, including 1,776 MW of non-utility generation ("NUG") and over
20 6,000 miles of transmission lines in Virginia, North Carolina, and West Virginia at
21 voltages ranging from 69 kilovolts ("kV") to 500 kV. In May 2005, the Company
22 became a member of PJM Interconnection, LLC ("PJM"), a regional transmission

1 organization that is the operator of the wholesale electric grid in the Mid-Atlantic region
2 of the United States. As a result, the Company transferred operational control of its
3 transmission assets to PJM.

4 The Company has a diverse mix of generating resources consisting of Company-owned
5 nuclear, fossil, hydro, pumped storage, and biomass facilities. Additionally, the
6 Company purchases capacity and energy from NUGs and the PJM market. The
7 Company's strategy to reduce dependence on volatile market purchases while
8 maintaining a diverse mix of fuels and DSM programs is a fundamental focus of the 2009
9 Plan.

10 **Q. Please briefly explain the Company's IRP process.**

11 **A.** The Company's IRP process enables the Company to balance additional generating
12 capacity from both renewable and traditional resources, DSM programs, and market
13 purchases, in order to meet the forecast of peak demand and energy sales, in addition to a
14 reserve margin required to support reliability. Currently, the Company optimizes supply-
15 and demand-side resources with market purchases to determine a strategy that offers
16 reliable service at reasonable prices to customers. The overall goal of the IRP process is
17 to identify the optimal mix of all resources, including supply-side and demand-side
18 options, for meeting the Company's and its customers' near-term and long-term energy
19 needs in an efficient and reliable manner at the lowest reasonable cost.

20 **Q. Please discuss what changes have occurred since the Company's 2007 Integrated**
21 **Resource Plan was approved by the NCUC.**

1 A. On November 30, 2007, the Company filed its 2007 Integrated Resource Plan under then
2 existing legislation and corresponding rules of the Commission. In 2007, the North
3 Carolina General Assembly passed, and the Governor signed, Senate Law 2007-397,
4 commonly referred to as Senate Bill 3. In response, the Commission amended Rules R8-
5 60 and R8-61, which, among other things, modified the requirements for utilities filing
6 integrated resource plans. The new rules require electric utilities to file biennial
7 integrated resource plans as well as annual updates of these plans. Additionally, the new
8 legislation requires an extended planning horizon of 15 years, further detail regarding
9 DSM programs, and the inclusion of REPS compliance plans as part of its Integrated
10 Resource Plan filing, among other new requirements.

11 In response to these legislative changes in North Carolina as well as new IRP legislation
12 in Virginia, the Company established an IRP department in late 2007 to evaluate the best
13 mix of supply- and demand-side resources needed to meet projected customer load. The
14 department's responsibility is to integrate generation options, transmission planning, and
15 demand-side options to meet long-range projected customer energy requirements.

16 **Q. What are the Plan's overall objectives?**

17 A. The Company's 2009 Plan represents Dominion North Carolina Power's commitment to
18 meeting future demand effectively through a balanced portfolio approach while also
19 providing the flexibility needed to respond to uncertainties brought on by changes in
20 market conditions and customer demand. The 2009 Plan was developed to meet rising
21 customer demand for electricity providing a mix of resources necessary to meet future
22 needs in an efficient and reliable manner at the lowest reasonable cost including
23 provisions to achieve policy goals from individual state legislatures. The Plan proposes

1 to achieve these objectives by expanding the Company's electric generation capacity and
2 increasing its DSM programs, including energy efficiency, demand response, and peak
3 shaving programs.

4 **Q. Please describe the Company's 2009 Plan.**

5 A. The 2009 Plan is a long-term planning document providing a 15-year forecast of
6 projected load and the manner in which that load will be met. The current 2009 Plan
7 addresses the 2010 to 2024 timeframe ("Planning Period"). The 2009 Plan is based on
8 the Company's current assumptions regarding load growth, commodity price projections,
9 and DSM program penetrations, as well as many other regulatory and market
10 developments throughout the Planning Period. The Company's 2009 filing includes
11 chapters on load forecasting, existing supply- and demand-side resources, plan
12 requirements and constraints, and future supply- and demand-side resources. In addition,
13 a Short-Term Action Plan ("STAP") was included to review the Company's specific
14 actions being taken within the next five years (2010 – 2014). The Company's REPS
15 Compliance Plan was attached as Addendum 1 to the 2009 Plan. The 2009 Plan was
16 prepared on a system basis, specifically, the Dominion Load Serving Entity ("DOM
17 LSE"), and represents the Company's service territories in the Commonwealth of
18 Virginia and North Carolina as part of PJM.

19 **Q. How did the Company develop its Plan?**

20 A. First, the Company developed its load forecast as adopted by Company Witness M.
21 Masood Ahmad. Once the forecast was established, The Company's objective in
22 developing the 2009 Plan was to identify the mix of resources necessary to meet future
23 energy needs in an efficient and reliable manner at the lowest reasonable cost. The

1 Company followed its comprehensive IRP process that gave preference to options that
2 offer reasonable costs and contain an acceptable level of risk, maintain or increase the
3 level of customer service, and provide reliable generation and infrastructure to meet
4 customers' needs. The process included various planning groups within the Company
5 who provided input and insight into evaluating all possible options including existing
6 generation, DSM programs, and new traditional and alternative resources to meet the
7 growing demand in the Company's service territory.

8 The Company used the Strategist model ("Strategist"), a computer modeling and resource
9 optimization tool, to systematically evaluate various combinations of supply- and
10 demand-side options to determine how the Company's resource requirements could be
11 met. Based on projected capacity needs, energy needs, and the resources available to
12 meet them, the Company developed a set of five alternative plans that represented
13 possible future paths considering the current regulatory and business environments.
14 Among the alternatives, one was selected as the preferred Plan ("Preferred Plan").

15 **Q. Please elaborate on how these alternative plans were developed and the Preferred**
16 **Plan was chosen.**

17 **A.** The Company developed alternative plans that represent possible future paths considering
18 the current regulatory and business environments including: 1) a base plan, 2) a no
19 demand-side resources plan, 3) a no nuclear expansion plan, 4) a no renewable plan, and
20 5) a federal renewable plan. The Company assessed the alternative plans using various
21 sensitivities and scenarios to understand how possible futures may impact the relative
22 costs of the supply- and demand-side resources included in each alternative plan. Each
23 alternative plan was designed to test different resource strategies available to the

1 Company over the Planning Period. After analyzing these alternative plans, the Company
2 identified the single option that provided the lowest reasonable cost plan most
3 consistently given these potential future conditions. This single plan was then selected as
4 the Preferred Plan.

5 **Q. Please elaborate on Preferred Plan.**

6 A. The Preferred Plan represents the single plan that performed the best, most consistently,
7 throughout the IRP process and contains the preferred mix of supply- and demand-side
8 options to meet expected future resource needs. Additionally, the Preferred Plan provides
9 the lowest reasonable cost plan for the Company given considerations of these scenarios
10 and sensitivities.

11 In addition to existing generation, the 2009 Plan relies upon:

- 12 ■ Proposed and future DSM programs reaching approximately 950 MW by 2024;
- 13 ■ Potential renewable resources of approximately 300 MW;
- 14 ■ Generation resources under construction of approximately 1,200 MW by 2024;
- 15 ■ Generation resources under development of approximately 1,900 MW by 2024;
- 16 ■ Additional conventional resources of approximately 4,500 MW that will continue
17 to be studied as the resource need is established; and
- 18 ■ PJM market purchases and NUG capacity under contract.

19 To meet the projected electric customer demand and the reserve requirement in the
20 Planning Period, the Company will need additional resources that total approximately
21 8,900 MW, consisting of a mix of supply-side resources totaling approximately 7,900
22 MW of capacity and nearly 950 MW of demand-side resources by 2024.

1 **Q. What demand-side and renewable resources has the Company relied upon in its**
2 **2009 Plan?**

3 A. The Company believes that cost-effective DSM and renewable resources should be
4 considered as viable resources in meeting customers' needs. The Company has included
5 a capacity of up to 950 MW of DSM resources as part of its 2009 Plan. More
6 specifically, the Company plans to file a portfolio of DSM programs in North Carolina in
7 the second quarter of 2010. With regard to renewables, the Company filed its REPS
8 Compliance Plan as an addendum to the 2009 Plan. Additionally, the Company filed its
9 REPS Compliance Report in November 2009.

10 **Q. Please summarize the Company's 2009 Plan.**

11 A. The Company's 2009 Plan represents Dominion North Carolina Power's commitment to
12 meet its customers' electrical needs over the next 15 years and allows flexibility to
13 respond to uncertainties brought on by changes in market conditions, including those
14 caused by changes in federal and state law and customer demand. The Company is
15 committed to meeting future demand effectively through a balanced portfolio, which
16 includes a combination of new traditional and renewable generation facilities as well as
17 energy efficiency and DSM programs that provide a reliable supply of energy at the
18 lowest reasonable cost to customers.

19 **Q. Does this conclude your testimony?**

20 A. Yes, it does.

BACKGROUND AND QUALIFICATIONS
OF
SHANNON L. VENABLE

I graduated from Michigan State University in June of 1982 with a Bachelor of Science degree in Electrical Engineering and a minor in Biomedical Engineering. I am a member of the Society of Women Engineers, United Way's Women's Leadership Council, and the Eta Kappa Nu Society. Additionally, I became the Vice Chairman of the South Eastern Electric Exchange ("SEE") IRP Task team in 2009 and served as Secretary in 2008.

I joined Virginia Electric and Power Company in July of 1982 as an engineer in Transmission and Distribution Construction and Operations. I have held various management positions in Metering and Energy Services supporting End Use Studies and Measurement & Verifications of DSM programs, Energy Information and Telecommunications, and Energy Efficiency before being promoted to Director of IT Telecommunications in 1998. From 1999 to 2007, I held director-level leadership positions in Customer Services, Business Excellence, Electric Transmission, IT Enterprise Services, and other strategy-based assignments. Additionally, I was one of the initial deployment champions for Six Sigma at Virginia Electric and Power Company and am a certified Master Black Belt in Six Sigma. I am currently Vice President of Integrated Resource Planning in the Regulation and Integrated Planning organization of Virginia Electric and Power Company. I am responsible for the development of corporate-level initiatives that integrate capacity plans, transmission plans, and conservation and load management in support of the Company's regulatory and strategic initiatives.

In January of 1996, I gave a presentation on Strategic Partnering to Enable Energy Management and Customer Information Capabilities at the Utility Information Technology, System Strategies, and Customer Satisfaction Symposium. In 1992, I was on the Edison Electric Institute's ("EEI") editorial team for the 1992 publication of the Handbook for Electricity Metering and was the Company's representative to EEI's Metering Subcommittee from 1992 to 1994. In September 2008, I presented "Uncertainty Surrounding Potential Carbon Legislation" at the Marcus Evans Integrated Resource Planning Conference.

I have previously testified before the Virginia State Corporation Commission.

**DIRECT TESTIMONY
OF
M. MASOOD AHMAD
ON BEHALF OF
VIRGINIA ELECTRIC AND POWER COMPANY
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-100, SUB 118
DOCKET NO. E-100, SUB 124**

1 **Q. Please state your name, business address, and position with Virginia Electric**
2 **and Power Company.**

3 A. My name is M. Masood Ahmad, and my business address is 120 Tredegar Street,
4 Richmond, Virginia 23219. I am the Director of Integrated Resource Planning for
5 Virginia Electric and Power Company d/b/a Dominion North Carolina Power
6 ("DNCP" or the "Company"). I am responsible for facilitating the Integrated
7 Resource Planning ("IRP") process including the development of an annual load
8 forecast, the optimization of supply- and demand-side resources, and evaluation
9 of transmission interconnection options. A statement of my background and
10 qualifications is attached as Appendix A.

11 **Q. What is the purpose of your testimony in this proceeding?**

12 A. On September 1, 2009, the Company filed its 2009 Integrated Resource Plan
13 ("2009 Plan") with the North Carolina Public Utilities Commission ("NCUC") as
14 an update to its previously filed 2008 Integrated Resource Plan. The purpose of
15 my testimony is to adopt Chapter 2, Chapter 3 excluding Section 3.4 subsections,
16 Chapter 4, Chapter 5 excluding Section 5.2 subsections, Chapter 6, the portions of
17 Chapter 7 that discuss supply-side resources, and the corresponding appendices as

1 presented in the 2009 Plan. These chapters and sections were prepared under my
2 supervision and direction.

3 **Q. During the course of your testimony, will you introduce an exhibit?**

4 A. Yes. Exhibit MMA-1, consisting of Schedules 1 through 4, was prepared under
5 my supervision and is accurate and complete to the best of my knowledge and
6 belief.

7 **Q. Since the 2009 Plan was submitted, do you have any corrections to that**
8 **filing?**

9 A. Yes. Since the submission, the Company has identified and seeks to correct a
10 number of items within the 2009 Plan and its associated appendices.

11 **Q. Do any of the corrections have a material impact on the planning or analysis**
12 **that was conducted in the creation of the 2009 Plan?**

13 A. No. The corrections are minor in nature and have no impact on the 2009 Plan or
14 the corresponding analysis that was required. I will identify the corrections and
15 provide a brief description of changes that were made to reflect appropriate
16 values.

17 **Q. What are the corrections?**

18 A. On page 3-3 of the 2009 Plan, the last sentence of the second paragraph states
19 “over 400 gigawatt hours (‘GWh’) of generation;” however, it should read “over
20 1,000 gigawatt hours (‘GWh’) of generation.” On page 3-4, Figure 3.1.1.3, Net
21 Summer Capacity of Natural Gas Turbines Owned is represented as 2,543 MW

1 but should reflect 2,428 MW and the Net Summer Capacity of Owned Light Fuel
2 Oil resources is represented as 237 MW, but should read 352 MW. In this
3 instance, two peaking units were incorrectly classified for reporting purposes
4 based on their primary fuel; however, they are represented correctly in the
5 analysis. The reclassification has no impact on the totals presented in the table.

6 On page 3-5, the first line refers to "Appendices 3A, 3C, 3D, and 3E" but should
7 read "Appendices 3A, 3B, 3C, 3D, and 3E" because Appendix 3B contains
8 information about contracted NUGs.

9 On page 7-5, Figure 7.2.3, the Surry 1 Uprate effective in 2010 reports a 56 MW
10 value, but should reflect 63 MW, the Surry 2 Uprate effective in 2011 is reported
11 as 42 MW but should reflect 49 MW, and the North Anna 1 Uprate effective in
12 2012 is reported as 47 MW but should reflect 43 MW. These values are correctly
13 reported in Appendix 3I on page AP-31.

14 On page AP-4, Appendix 2C, the Company found an error in the method used to
15 allocate sales from the system level to the North Carolina jurisdictional sales
16 level. This error resulted in changes to the Commercial and Public Authority
17 columns of this Appendix. I have attached an updated version of Appendix 2C
18 from the 2009 Plan as Exhibit MMA-1, Schedule 2. As a result of finding this
19 allocation error, there were related impacts to the Virginia sales forecasts in
20 Appendix 2B on page AP-3. I have attached an updated Appendix 2B as Exhibit
21 MMA-1, Schedule 1. The 2009 Plan was based on system-level numbers;
22 therefore, there was no overall impact to the conclusions of the Plan due to this

1 error. On page AP-8, Appendix 2G (Schedule 5), the "Adjusted Winter Peak" row
2 was corrected to reflect the winter value for North Carolina Electric Membership
3 Cooperatives ("NCEMC") rather than a summer value that was inserted into the
4 spreadsheet. The values now reflect the MW associated with the load shape used
5 in modeling NCEMC. I have attached the corrected Appendix 2G as Exhibit
6 MMA-1, Schedule 3. On page AP-9, Appendix 2H (Schedule 1) reflects a similar
7 correction and has no impact on the analysis. An updated version of Appendix
8 2H is attached as Exhibit MMA-1, Schedule 4.

9 On page AP-10, Appendix 2I (Schedule 6) contains two invalid values for the
10 2009 MW and Percent of Load and have been updated to 3,122 MW and 18.7%
11 respectively. Also, DSM in 2012 was not included in the "Reserve Margin"
12 calculation but should have been; the resulting value is 9.5%. Finally, the
13 "Winter Reserve Margin" for all years was calculated using the maximum
14 capacity value rather than the seasonal capacity value in January. For example,
15 new units are generally scheduled to enter service in June, but annual winter peak
16 occurs in January; therefore the capacity was included prior to installation in the
17 unit's first year of service. The Company is a summer peaking utility for
18 planning purposes and winter values are used for reporting purposes only. These
19 modifications have no impact on the analysis and a corrected Appendix 2I has
20 been attached to this document as Exhibit MMA-1, Schedule 5. On page AP-116,
21 Appendix 6E (Schedule 4), the "Winter" row was updated to reflect the same
22 corrections in Appendix 2I. Also in this appendix, the "Capacity Sale" row was

1 included in the “Winter” section to reflect a consistent modeling construct. The
2 changes have no impact on the analysis. I have attached a corrected Appendix 6E
3 as Exhibit MMA-1, Schedule 6.

4 **Q. With the inclusion of these corrections to the 2009 Plan, does this conclude**
5 **your prefled direct testimony in this proceeding?**

6 **A. Yes, it does.**

BACKGROUND AND QUALIFICATIONS
OF
M. MASOOD AHMAD

I graduated from the University of Engineering and Technology in Lahore, Pakistan in 1986 with a Bachelor of Science degree in Electrical Engineering. I then continued my education at the Georgia Institute of Technology where I completed my Master of Science in Electrical Engineering in 1990 and also my Doctor of Philosophy in Electrical Engineering in 1993.

Between 1993 and 2002, I held various positions at different power companies including Manager of Market Analysis at Mirant Corporation, an IPP and subsidiary of Southern Company. During this time, I worked in the areas of utility planning, privatization, and generation development/acquisition. I joined Dominion Resources in May of 2002 as a Manager, Pricing and Structuring. I have held other management positions in Business Planning and Market Analysis where my responsibilities included asset evaluation, transaction analysis, and commodity price projections. I am currently the Director of Integrated Resource Planning in the Regulation and Integrated Planning organization of Virginia Electric and Power Company and I have been in this role since 2007. My responsibilities include long-term load forecasting, marginal cost development, determination of transmission impacts on generation and demand-side management plans, and the development of the Integrated Resource Plan for Virginia Electric and Power Company.

In conjunction with the positions I have held with Virginia Electric and Power Company, I have nearly 20 years of experience in the electric utility industry. In the past, I have taught courses on utility planning and the United States electric market in Spain, Austria, and the United Kingdom. Additionally, I have given presentations at both the United States Energy Association and Marcus Evans Conferences.

**CORRECTED APPENDIX 2B - VIRGINIA SALES BY CUSTOMER CLASS (DOM LSE)
(GWH)**

Year	Residential	Commercial	Industrial	Public Authority	Street and Traffic Lighting	Sales For Resale	Total
1999	22,726	21,108	9,824	8,598	265	3,212	65,733
2000	23,939	22,219	10,150	8,767	271	3,233	68,579
2001	23,516	22,838	9,402	8,864	273	2,677	67,570
2002	25,673	23,559	9,239	9,165	278	2,337	70,251
2003	25,822	23,993	8,961	9,303	272	1,996	70,347
2004	26,771	25,109	9,051	9,652	275	2,087	72,945
2005	28,359	26,243	8,621	9,976	272	1,651	75,122
2006	27,067	26,303	8,404	9,903	274	1,754	73,705
2007	28,890	27,606	8,359	10,519	274	1,906	77,554
2008	28,100	27,679	8,064	10,391	273	1,877	76,384
2009	28,234	26,928	7,950	10,113	279	1,834	75,338
2010	28,724	27,613	7,473	10,177	281	1,841	76,110
2011	29,038	29,275	7,657	10,304	284	1,882	78,440
2012	29,195	30,905	7,993	10,316	288	1,948	80,645
2013	29,314	32,422	8,099	10,411	293	1,975	82,514
2014	29,705	33,792	8,133	10,571	297	2,004	84,502
2015	30,289	34,843	8,139	10,733	302	2,044	86,349
2016	30,956	35,918	8,244	10,923	307	2,097	88,445
2017	31,450	36,867	8,283	11,051	312	2,135	90,099
2018	31,997	37,994	8,346	11,221	317	2,178	92,053
2019	32,550	39,190	8,446	11,419	322	2,224	94,150
2020	33,122	40,608	8,579	11,643	327	2,279	96,559
2021	33,556	41,761	8,671	11,795	332	2,320	98,437
2022	34,079	43,016	8,783	11,969	337	2,368	100,552
2023	34,603	44,336	8,870	12,138	343	2,415	102,706
2024	35,246	45,785	8,983	12,335	348	2,471	105,168

**CORRECTED APPENDIX 2C - NORTH CAROLINA SALES BY CUSTOMER CLASS (DOM LSE)
(GWH)**

Year	Residential	Commercial	Industrial	Public Authority	Street and Traffic Lighting	Sales For Resale	Total
1999	1,207	653	1,189	118	9	1,014	4,190
2000	1,299	681	1,248	122	9	1,075	4,434
2001	1,268	703	1,482	124	8	1,135	4,720
2002	1,391	738	1,592	131	8	1,182	5,042
2003	1,424	739	1,564	141	8	1,078	4,954
2004	1,479	769	1,792	146	8	84	4,278
2005	1,583	780	1,709	143	8	84	4,307
2006	1,477	775	1,763	137	8	87	4,247
2007	1,579	810	1,735	140	8	89	4,361
2008	1,546	806	1,715	138	8	49	4,262
2009	1,558	785	1,352	138	8	49	3,890
2010	1,593	794	1,272	140	8	49	3,857
2011	1,627	834	1,308	143	8	50	3,971
2012	1,654	872	1,375	145	9	51	4,105
2013	1,671	900	1,406	148	9	52	4,186
2014	1,698	932	1,411	151	9	52	4,253
2015	1,730	963	1,414	153	9	53	4,322
2016	1,767	994	1,430	155	9	54	4,410
2017	1,795	1,023	1,436	157	9	55	4,475
2018	1,826	1,056	1,446	160	9	56	4,553
2019	1,855	1,091	1,467	162	10	57	4,642
2020	1,888	1,133	1,489	165	10	58	4,744
2021	1,911	1,166	1,503	167	10	59	4,817
2022	1,941	1,203	1,524	170	10	60	4,908
2023	1,970	1,242	1,535	172	10	61	4,991
2024	2,006	1,285	1,553	175	10	63	5,092

CORRECTED APPENDIX 2G – SUMMER & WINTER PEAKS

Company Name: Virginia Electric and Power Company

Schedule 5

POWER SUPPLY DATA

	(ACTUAL)				(PROJECTED)															
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
II. Load (MW)																				
1. Summer																				
a. Adjusted Summer Peak (1)	17,196	17,455	16,908	16,704	16,952	17,530	18,163	18,261	18,727	18,958	19,332	19,703	19,970	20,371	20,932	21,349	21,747	22,137	22,428	
b. Other Commitments (2)	150	150	150	336	320	256	551	179	111	-64	-74	-81	-84	-86	-89	-91	-94	-114	-116	
c. Total System Summer Peak	17,046	17,305	16,758	16,368	16,632	17,274	17,612	18,082	18,616	19,022	19,406	19,784	20,054	20,457	21,021	21,440	21,841	22,251	22,544	
d. Percent Increase in Total Summer Peak		1.5%	-3.2%	-2.3%	1.6%	3.9%	2.0%	2.7%	3.0%	2.2%	2.0%	1.9%	1.4%	2.0%	2.6%	2.0%	1.9%	1.9%	1.3%	
2. Winter																				
a. Adjusted Winter Peak (1)	14,444	16,060	15,135	14,585	14,594	14,883	15,136	15,574	15,900	16,013	16,309	16,501	16,924	17,257	17,600	17,936	18,182	18,496	18,942	
b. Other Commitments (2)	150	150	150	297	299	301	271	204	153	-11	-18	-24	-26	-27	-29	-31	-33	-55	-57	
c. Total System Winter Peak	14,294	15,910	14,985	14,288	14,295	14,582	14,864	15,370	15,748	16,024	16,327	16,525	16,950	17,284	17,630	17,967	18,216	18,551	18,999	
d. Percent Increase in Total Winter Peak		11.3%	-5.8%	-4.6%	0.1%	2.0%	1.9%	3.4%	2.5%	1.8%	1.9%	1.2%	2.6%	2.0%	2.0%	1.9%	1.4%	1.8%	2.4%	

(1) Peak after energy efficiency and demand-side programs, see Schedule 1

(2) To include firm commitments for the receipt of specified blocks of power (i.e., unit power, limited term, diversity exchange, etc.)

CORRECTED APPENDIX 2H – PROJECTED SUMMER & WINTER PEAK LOAD & ENERGY FORECAST

Company Name: Virginia Electric and Power Company

Schedule 1

I. PEAK LOAD AND ENERGY FORECAST

	(ACTUAL) ⁽¹⁾				(PROJECTED)															
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
1. Utility Peak Load (MW)																				
A. Summer																				
1a. Base Forecast	17,046	17,305	16,756	16,368	16,832	17,274	17,812	18,082	18,816	19,022	19,406	19,784	20,054	20,457	21,021	21,440	21,841	22,261	22,544	
1b. Additional Forecast																				
BTMG				158	158	158	155	152	147	143	141	141	141	141	141	141	141	121	121	
NCEMC	150	150	150	150	150	150	150	150	150	0	0	0	0	0	0	0	0	0	0	
2. Conservation, Efficiency				0	0	0	-31	-106	-170	-192	-200	-207	-210	-212	-215	-217	-220	-222	-224	
3. Demand-Side and Response				-14	-44	-100	-181	-273	-369	-435	-495	-551	-595	-627	-654	-677	-692	-705	-716	
4. Demand-Side and Response-Existing (2)	21	23	22	22	21	19	17	16	15	15	15	15	15	15	15	15	15	15	15	
5. Peak Adjustment				28	12	-52	278	-16	-16	-15	-15	-15	-15	-15	-15	-15	-15	-13	-13	
6. Adjusted Load	17,198	17,455	16,908	16,704	16,952	17,530	18,163	18,261	18,727	18,858	19,332	19,703	19,970	20,371	20,932	21,349	21,747	22,137	22,428	
7. % Increase in Adjusted Load (from previous year)		1.5%	-3.1%	-1.2%	1.5%	3.4%	3.6%	0.5%	2.5%	1.2%	2.0%	1.9%	1.4%	2.0%	2.8%	2.0%	1.9%	1.8%	1.3%	
B. Winter																				
1. Base Forecast	14,294	15,910	14,985	14,288	14,295	14,582	14,864	15,370	15,748	16,024	16,327	16,525	16,950	17,284	17,630	17,967	18,216	18,551	18,999	
1b. Additional Forecast																				
BTMG				158	158	158	155	152	147	143	141	141	141	141	141	141	141	121	121	
NCEMC	150	150	150	139	141	143	145	146	147	0	0	0	0	0	0	0	0	0	0	
2. Conservation, Efficiency				0	0	0	-29	-95	-141	-154	-159	-165	-167	-168	-170	-172	-174	-178	-178	
3. Demand-Side and Response				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5. Adjusted Load	14,444	16,060	15,135	14,585	14,594	14,883	15,136	15,574	15,900	16,013	16,309	16,501	16,924	17,257	17,600	17,936	18,182	18,496	18,942	
6. % Increase in Adjusted Load		11.2%	-5.8%	-3.6%	0.1%	2.0%	1.7%	2.9%	2.1%	0.7%	1.8%	1.2%	2.6%	2.0%	2.0%	1.9%	1.4%	1.7%	2.4%	
2. Energy (GWh)																				
A. Base Forecast	82,983	87,755	85,798	81,893	83,114	86,388	89,604	92,185	94,471	96,460	98,729	100,518	102,821	104,885	107,494	109,519	111,813	114,135	116,795	
B. Additional Forecast																				
BTMG				1,386	1,386	1,386	1,363	1,319	1,282	1,255	1,238	1,235	1,235	1,235	1,238	1,235	1,235	1,084	1,181	
NCEMC				590	605	619	645	658	676	0	0	0	0	0	0	0	0	0	0	
ODECsupp				161	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C. PJM Energy Efficiency				-17	-18	-18	-19	-19	-20	-20	-21	-21	-22	-22	-23	-23	-24	-24	-25	
D. Conservation & Demand Response				-94	-521	-1,293	-2,127	-2,866	-3,079	-3,158	-3,194	-3,231	-3,242	-3,252	-3,263	-3,273	-3,283	-3,293	-3,304	
E. Adjusted Energy	82,983	87,755	85,798	84,018	84,885	87,082	88,467	91,287	93,329	94,537	96,752	98,500	100,592	102,856	105,447	107,458	109,741	111,882	114,647	
F. % Increase in Adjusted Energy		5.8%	-2.2%	-2.1%	0.8%	2.8%	2.7%	2.0%	2.2%	1.3%	2.3%	1.8%	2.1%	2.2%	2.5%	1.9%	2.1%	2.0%	2.5%	

(1) 88% of zonal load

(2) Existing DSM programs are included in the load forecast

CORRECTED APPENDIX 2I – REQUIRED RESERVE MARGIN

Company Name: Virginia Electric and Power Company

Schedule 6

POWER SUPPLY DATA (continued)

	(ACTUAL)				(PROJECTED)															
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
I. Reserve Margin (1)																				
(Including Cold Reserve Capability)																				
1. Summer Reserve Margin																				
a. MW (1)	645	494	1,312	3,122	2,947	2,821	3,040	2,191	2,247	2,275	2,320	2,365	2,397	2,445	2,512	2,562	2,610	2,657	2,693	
b. Percent of Load	3.8%	2.9%	7.8%	18.7%	17.4%	16.1%	16.7%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	
c. Actual Reserve Margin (4)	N/A	N/A	N/A	10.17%	8.9%	9.6%	9.5%	10.3%	7.7%	6.9%	8.6%	6.4%	11.2%	10.1%	8.6%	8.6%	9.6%	10.5%	11.9%	
2. Winter Reserve Margin																				
a. MW (1)	N/A	N/A	N/A	N/A	6,634	6,123	6,799	5,692	5,785	5,141	5,120	5,377	4,619	5,667	5,981	5,844	6,057	6,215	6,094	
b. Percent of Load	N/A	N/A	N/A	N/A	45.5%	41.1%	44.9%	36.5%	36.4%	32.1%	31.4%	32.6%	27.3%	32.8%	34.0%	32.6%	33.3%	33.6%	32.1%	
c. Actual Reserve Margin (4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
I. Reserve Margin (1)(2)(3)																				
(Excluding Cold Reserve Capability)																				
1. Summer Reserve Margin																				
a. MW (1)	708	494	1,312	3,122	2,947	2,821	3,040	2,191	2,247	2,275	2,320	2,365	2,397	2,445	2,512	2,562	2,610	2,657	2,693	
b. Percent of Load	3.0%	2.9%	7.8%	18.7%	17.4%	16.1%	16.7%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	
c. Actual Reserve Margin (4)	N/A	N/A	N/A	10.2%	8.9%	9.6%	9.5%	10.3%	7.7%	6.9%	8.6%	6.4%	11.2%	10.1%	8.6%	8.6%	9.6%	10.5%	11.9%	
2. Winter Reserve Margin																				
a. MW (1)	N/A	N/A	N/A	N/A	6,634	6,123	6,799	5,692	5,785	5,141	5,120	5,377	4,619	5,667	5,981	5,844	6,057	6,215	6,094	
b. Percent of Load	N/A	N/A	N/A	N/A	45.5%	41.1%	44.9%	36.5%	36.4%	32.1%	31.4%	32.6%	27.3%	32.8%	34.0%	32.6%	33.3%	33.6%	32.1%	
c. Actual Reserve Margin (4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
III. Annual Loss-of-Load Hours (5)																				
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

(1) To be calculated based on Total Net Capability for summer and winter.

(2) The Company has no units in Cold Reserve past 2006

(3) The Company and PJM forecasts a summer peak throughout the Planning Period

(4) Does not include spot purchases of capacity

(5) The Company follows PJM reserve requirements which are based on LOLE

CORRECTED APPENDIX 6E – CAPACITY POSITION

Company Name: Virginia Electric and Power Company

Schedule 4

POWER SUPPLY DATA

	(ACTUAL)				(PROJECTED)															
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
I. Capacity (MW)																				
1. Summer																				
a. Installed Net Dependable																				
Capacity (1)	15,552	15,723	16,210	16,489	16,531	17,287	17,862	17,946	17,874	18,450	19,133	19,849	21,043	21,383	21,723	22,363	23,003	23,643	24,263	
b. Positive Interchange																				
Commitments (2)	2,076	2,076	1,860	1,935	1,935	1,935	1,932	1,929	1,923	1,376	1,373	568	575	408	363	141	141	121	121	
c. Capacity in Cold Reserve/																				
Reserve Shutdown Status (1)	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
d. Demand Response - Existing	21	23	22	22	21	19	17	18	15	15	15	15	15	15	15	15	15	15	15	
e. Demand Response - Proposed				0	0	0	91	273	369	435	495	551	585	627	654	677	692	705	716	
f. Capacity Sale				0	0	0	0	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	
g. Capacity Purchase				1,963	1,779	1,355	1,578	504	1,008	1,172	851	1,299	353	587	904	930	721	525	214	
h. Capacity Adjustment				-541	-347	-225	-263	0	0	0	0	0	0	0	0	0	0	0	0	
i. Total Net Summer Capacity	17,712	17,822	18,092	19,826	19,888	20,351	21,199	20,451	20,874	21,233	21,653	22,067	22,367	22,815	23,445	23,911	24,357	24,794	25,135	
2. Winter																				
a. Installed Net Dependable																				
Capacity (1)				19,269	19,448	19,851	20,357	20,902	20,878	20,182	20,777	20,779	21,390	22,527	22,877	23,050	23,718	24,366	25,035	
b. Positive Interchange																				
Commitments (2)				1,963	1,779	1,355	1,578	504	1,008	1,172	851	1,299	353	587	904	930	721	525	214	
c. Capacity in Cold Reserve/																				
Reserve Shutdown Status (1)	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
d. Demand-Side and Response				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
e. Capacity Sale				0	0	0	0	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	
f. Total Net Winter Capacity				21,232	21,228	21,006	21,935	21,266	21,685	21,154	21,428	21,878	21,544	22,924	23,581	23,780	24,239	24,711	25,049	

(1) Net Seasonable Capacity.

(2) To include firm commitments for the receipt of specified blocks of power (i.e., unit power, limited term, diversity exchange, cogeneration, small power production, etc.)

**DIRECT TESTIMONY
OF
MICHAEL J. JESENSKY
ON BEHALF OF
VIRGINIA ELECTRIC AND POWER COMPANY
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-100, SUB 118
DOCKET NO. E-100, SUB 124**

1 **Q. Please state your name, business address, and position with Virginia Electric**
2 **and Power Company.**

3 **A. My name is Michael J. Jesensky and my business address is 120 Tredegar Street,**
4 Richmond, Virginia. I am the Director of Demand-Side Analysis for Virginia
5 Electric and Power Company d/b/a Dominion North Carolina Power (“DNCP” or
6 the “Company”). I am responsible for the analysis of Demand-Side Management
7 (“DSM”) programs, which include both Demand Response and Energy Efficiency
8 programs. The analysis of DSM programs includes screening and modeling, in
9 addition to performing cost/benefit analyses to evaluate the impact of such
10 programs on stakeholders. A statement of my background and qualifications is
11 attached as Appendix A.

12 **Q. What is the purpose of your testimony in this proceeding?**

13 **A. On September 1, 2009, the Company filed its 2009 Integrated Resource Plan**
14 (“2009 Plan”) with the North Carolina Public Utilities Commission (“NCUC”) as
15 an update to the previously filed 2008 Integrated Resource Plan. The purpose of
16 my testimony is to adopt the current and proposed DSM programs discussed in
17 Chapter 3, the future DSM programs outlined in Chapter 5, the discussion
18 regarding planned demand-side actions for the next five years in Chapter 7, and

1 the corresponding appendices, all of which are contained in the 2009 Plan. These
2 chapters and sections were prepared under my supervision and direction.

3 **Q. Since the 2009 Plan was submitted, do you have any corrections to that**
4 **filing?**

5 **A. Yes. On page 3-13 of the 2009 Plan, the reference to “Over 3,400,000 CFL Bulbs**
6 **Sold as of June 1, 2009” in the Compact Fluorescent Light price reduction**
7 **program description should read “Over 3,200,000 CFL Bulbs Sold as of June 1,**
8 **2009.”**

9 **Q. With the inclusion of these corrections to the 2009 Plan, does this conclude**
10 **your prefiled direct testimony in this proceeding?**

11 **A. Yes it does.**

BACKGROUND AND QUALIFICATIONS
OF
MICHAEL J. JESENSKY

I graduated from Virginia Military Institute in May of 1982 with a Bachelor of Science Degree in Electrical Engineering. I continued my education with a Master of Business Administration in May of 1988 from Virginia Commonwealth University.

I joined Virginia Electric and Power Company in June of 1982 as an engineer in Telecommunications and Transmission & Distribution. I have held various management positions in Telecommunications Engineering, Enterprise Systems Management, and Metering Technology before being promoted to Director of Metering Services in 2000. From 2001 to 2007, I held various director-level leadership positions in Billing and Credit Systems Support, and Business Development and Planning. Additionally, I am a certified Dominion Six Sigma Green Belt. I am currently the Director of Demand-Side Analysis on behalf of Virginia Electric and Power Company. I am responsible for the analysis of Demand-Side Management ("DSM") programs, including Peak-Shaving and Energy Efficiency programs. DSM analysis includes the screening and modeling of such programs, in addition to performing cost/benefit analyses required in evaluating these programs.

FILED

DEC 11 2009

Clerk's Office
N.C. Utilities Commission

**DIRECT TESTIMONY
OF
AARON A. REED
ON BEHALF OF
DOMINION NORTH CAROLINA POWER
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-100, SUB 118
DOCKET NO. E-100, SUB 124**

1 **Q. Please state your name and position, and describe your educational**
2 **background and experience with Virginia Electric and Power Company**
3 **("Dominion North Carolina Power" or the "Company").**

4 **A. My name is Aaron A. Reed, and I am a Business Development Manager for the**
5 **Company and my business address is 120 Tredegar St, Richmond, Virginia**
6 **23219.**

7 **Q. Please describe your areas of responsibility with the Company.**

8 **A. I am responsible for identifying prospective generation acquisition and**
9 **development opportunities, coordinating evaluation, analysis, and due diligence**
10 **activities, and participating in negotiations of key contracts and agreements for**
11 **the Company. I am also responsible for developing strategies for expansion of the**
12 **Company's generation business. I am also responsible for management of the**
13 **Company's Renewable Energy and Energy Efficiency Portfolio Standard**
14 **Compliance Plan ("REPS Compliance Plan"). A statement of my background**
15 **and qualifications is attached as Appendix A.**

16 **Q. What is the purpose of your testimony in this proceeding?**

1 A. The purpose of my testimony is to adopt Dominion North Carolina Power's 2009
2 REPS Compliance Plan filed on September 1, 2009, as Addendum 1 to the
3 Company's Report of its Integrated Resource Plan as revised on September 15,
4 2009. The 2009 REPS Compliance Plan was prepared under my supervision and
5 direction, and is accurate and complete to the best of my knowledge.

6 **Q. Do you have any changes or correction to Addendum 1?**

7 A. No.

8 **Q. Does this conclude your prefiled direct testimony in this proceeding?**

9 A. Yes, it does.

BACKGROUND AND QUALIFICATIONS
OF
AARON A. REED

I graduated from the North Carolina State University in 2000 with a Bachelor of Science degree in Mechanical Engineering. I joined Virginia Electric and Power Company in 2000. From 2000 to 2003, I worked at Chesterfield Power Station as an engineer and was promoted to Engineer II during that time. In 2003, I transferred to F&H Operations as a support staff engineer for the company's mid-west assets for approximately 2 years before I transferred to the F&H Environmental Excellence group where I was promoted to Engineer III. I was responsible for review of various new potential renewable technologies, managed a companywide biomass feasibility study, and participated in the developing the company's position on both the Virginia and North Carolina renewable energy portfolio standards. In 2007, I was promoted to Business Development Manager for the company. In my current position, I am responsible for identifying prospective generation acquisition and development opportunities, coordinating evaluation, analysis, and due diligence activities, and participating in negotiations of key contracts and agreements for the Company. I am also responsible for developing strategies for expansion of the Company's generation business and for the management of the Company's Renewable Energy and Energy Efficiency Portfolio Standard Compliance Plan ("REPS Compliance Plan").

CERTIFICATE OF SERVICE
DOCKET NO. E-100, SUB 124

I hereby certify that a copy of the Direct Testimony and Exhibits of Dominion North Carolina Power was mailed, first-class, postage prepaid, to each of the following:

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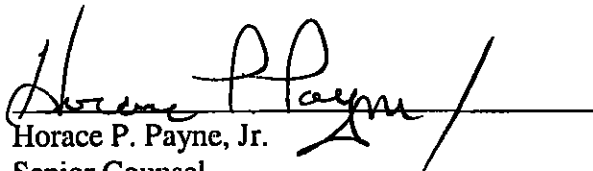
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This the 10th day of December, 2009.



Horace P. Payne, Jr.
Senior Counsel