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Nedwick

Part 4

**DIRECT TESTIMONY
OF
PETER NEDWICK
ON BEHALF OF
VIRGINIA ELECTRIC AND POWER COMPANY
BEFORE THE
STATE CORPORATION COMMISSION OF VIRGINIA
CASE NO. PUE-2014-00086**

1 **Q. Please state your name, business address and position with Virginia Electric**
2 **and Power Company (“Dominion Virginia Power” or the “Company”).**

3 A. I am Peter Nedwick, and I am a Consulting Engineer in Electric Transmission
4 Planning for Dominion Virginia Power. My office is located at 701 East Cary
5 Street, Richmond, Virginia.

6 **Q. What is your educational and professional background?**

7 A. I am a 1984 graduate of The Pennsylvania State University with a Bachelor’s
8 Degree in Electrical Engineering. I am also a Registered Professional Engineer
9 with the Commonwealth of Virginia (No. 0402 019479).

10 My experience with the Company includes System Protection, Distribution
11 Planning and Transmission Planning. I started with the Company in June of 1984
12 as an Associate Engineer in the System Protection Group. I was transferred in
13 1986 to the Transmission Planning Group, where I was promoted to Engineer in
14 1987 and to Senior Engineer in 1991. While in that department, I was responsible
15 for special operating studies and for planning the Company’s electric transmission
16 system for eastern Virginia and North Carolina.

17 In 1997 I was promoted to Staff Engineer and transferred to the Distribution
18 Planning Department, where I served as that department’s technical expert.

1 While with that department I was promoted to Consulting Engineer in 2000. In
2 2002 I was transferred to my present position in Electric Transmission Planning.

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

4 A. I am team leader of the transmission planners responsible for planning the
5 Company's transmission system, including 500 kV facilities. I also coordinate
6 the Company's involvement with its regional transmission operator, PJM
7 Interconnection, L.L.C. ("PJM"), concerning planning and generation activities.

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

9 A. In order to maintain the reliability and structural integrity of its transmission
10 system and to comply with mandatory North American Electric Reliability
11 Corporation ("NERC") Reliability Standards by increasing transmission capacity,
12 Dominion Virginia Power proposes to build, entirely within existing right-of-way,
13 a second 500 kV Brambleton-Mosby line (to be designated Line #546) in
14 Loudoun County and perform associated work at existing Mosby Switching
15 Station ("Mosby Station") and Brambleton Substation (collectively, the
16 "Project").

17 My prefiled direct testimony will discuss the need for, and benefits of, the
18 proposed Rebuild Project. I am also sponsoring Sections I.A through I.C and I.E,
19 I.F, I.H and I.I of the Appendix.

20 **Q. Please provide an overview of the Company's transmission system and
21 transmission planning process.**

22 A. Dominion Virginia Power's transmission system is responsible for providing
23 transmission service to the Company's retail customers and also to Appalachian

1 Power Company, Old Dominion Electric Cooperative, Northern Virginia Electric
2 Cooperative, Central Virginia Electric Cooperative, and Virginia Municipal
3 Electric Association for redelivery to their retail customers in Virginia, as well as
4 to North Carolina Electric Membership Corporation and North Carolina Eastern
5 Municipal Power Agency for redelivery to their customers in North Carolina.

6 The Company needs to be able to maintain the overall, long-term reliability of its
7 transmission system, as its customers require more power in the future.

8 Dominion Virginia Power is part of the Eastern Interconnection transmission grid,
9 meaning it is interconnected, directly or indirectly, with all of the other
10 transmission systems in the U.S. and Canada between the Rocky Mountains and
11 the Atlantic coast, except Quebec and most of Texas. All of the transmission
12 systems in the Eastern Interconnection are dependent on each other for support in
13 moving bulk power through the transmission system and for reliability support.

14 Dominion Virginia Power's service to its customers is extremely reliant on a
15 robust and reliable regional transmission system.

16 Dominion Virginia Power also is part of the PJM regional transmission
17 organization providing service to a large portion of the eastern United States. PJM
18 is currently responsible for ensuring the reliability and coordinating the movement
19 of electricity through all or parts of Delaware, Illinois, Indiana, Kentucky,
20 Maryland, Michigan, New Jersey, North Carolina, Ohio, Pennsylvania,
21 Tennessee, Virginia, West Virginia and the District of Columbia. This service
22 area has a population of about 58 million and on July 21, 2011, set a summer peak
23 demand of 158,450 MW, of which Dominion Virginia Power's load portion was
24 approximately 19,636 MW serving 2.4 million customers. On July 22, 2011 the

1 Company set a new summer peak loading of 20,061 MW. Dominion Virginia
2 Power's load zone is the third largest area in PJM behind only American Electric
3 and Power Company and Commonwealth Edison.

4 **Q. Please describe the present transmission system in the vicinity of the**
5 **proposed Project.**

6 A. The Company's 500 kV network is the major transportation system providing
7 electrical energy to Dominion Virginia Power's customers. Its primary purpose is
8 to deliver bulk power needs from generation sources to major load centers. At
9 these major load centers, bulk power is transferred from the 500 kV system to the
10 230 kV system via 500-230 kV transformations in accordance with NERC
11 Reliability Standards.

12 **Q. Why do the proposed facilities need to be built at this time?**

13 A. As described in Appendix Section I.A, the Project is needed to maintain reliable
14 service to the Company's customers by allowing the Company's transmission
15 system to maintain compliance with mandatory NERC Reliability Criteria.

16 **Q. Did the Company consider whether there are feasible alternatives to**
17 **construction of the proposed transmission facilities?**

18 A. Four alternatives were considered and rejected by the Company since they (1)
19 include technical challenges to implementation, (2) have greater impacts, (3)
20 represent higher estimated costs, and/or (4) do not provide the same benefits as
21 the proposed Project. These alternatives are described in Section I.C of the
22 Appendix. As discussed throughout the Appendix, the Company proposes the

1 Project as a reliable, robust, technically feasible solution that maximizes use of
2 existing right-of-way.

3 **Q. Have you reviewed the demand-side resources incorporated in the**
4 **Company's planning studies used in support of this application, as directed**
5 **by the Commission in its Order issued on November 26, 2013 in Case No.**
6 **PUE-2012-00029?**

7 A. Yes, demand-side resources are routinely incorporated into PJM's Regional
8 Transmission Expansion Planning Process ("RTEP"), and specifically as part of
9 the Load Deliverability study process for a given study year. The Load
10 Deliverability study examines the actual summer peaks for a load delivery area
11 ("LDA") for a given period. The average summer peak would be "50/50" – 50%
12 of the summer peaks would be above the average and 50% would be below the
13 average. The load deliverability study, on the other hand, tests the LDA on a
14 90/10 summer load for the period – only 10% of summer peaks for the period
15 exceed the 90/10 peak value. The 90/10 summer load is then decreased by the
16 value of the demand-side resources that have cleared the Reliability Pricing
17 Model ("RPM") for that study year; provided that the demand-side resources do
18 not reduce the projected load level below the forecasted summer peak 50/50
19 values. In other words, the 50/50 average summer peak establishes a floor for the
20 Load Deliverability study.

21 For Dominion Virginia Power, the LDA is the Dominion Zone ("DOM Zone").
22 To study what might happen if demand-side resources within the DOM Zone are
23 unavailable to PJM and the Company, a power flow case was developed for

1 summer 2018 based on the DOM Zone at a projected 90/10 load, without
2 reduction for demand-side resources that have cleared the RPM.

3 **Q. What were the results of that study?**

4 A. DOM Zone's projected summer 2018 peak based on PJM's 2014 Load Forecast is
5 22,156 MW (50/50), and the projected 90/10 summer 2018 peak value is 22,788
6 MW. This is a projected system loading increase of 632 MW. Therefore, load on
7 the Dominion Virginia Power LDA was scaled up by 632 MW (2.8%) to
8 represent the system being at its projected 90/10 forecast. Generation resources
9 outside of DOM Zone were increased to account for this increase in load; thus,
10 imports into DOM Zone were increased. A single contingency analysis was
11 performed to determine if any reliability deficiencies discovered. The results of
12 this analysis are included in Exhibit PN-1.

13 These study results indicated that potential contingency loading was increased
14 approximately 0.2% for identified deficiencies on the Company's system.
15 Therefore, if known and projected demand-side resources within DOM Zone were
16 unavailable for summer 2018 and adequate capacity resources existed on PJM's
17 system, then no detrimental impacts would be expected on the Company's and
18 PJM's ability to maintain reliable transmission operations.

19 **Q. How do these results relate to the Project?**

20 A. The proposed Project resolves all identified NERC reliability criteria violations
21 even if anticipated demand-side management resources are unavailable to the
22 Company and PJM during summer 2018.

1 Q. Does this conclude your prepared direct testimony?

2 A. Yes.

AC Branch Violations

***** Report on violations *****

Branches with MVA flow more than 93.0 % of nominal rating

**	From bus	** **	To bus	**	CKT	Type	ContMVA	BaseFlow	Rating	Loading%	Ncon	Contingency Description				
314057	6LAKERD	230 314074	6POSSUM	230	1	LN	591.4	431.0	633.0	93.4	145	314029	6DUMFRES	230 314074	6POSSUM	230 1
314029	6DUMFRES	230 314074	6POSSUM	230	1	LN	665.0	545.1	705.0	94.3	188	314054	6KEENE M	230 314057	6LAKERD	230 1
314029	6DUMFRES	230 314074	6POSSUM	230	1	LN	679.0	545.1	705.0	96.3	190	314057	6LAKERD	230 314074	6POSSUM	230 1
314756	3DOUBLDY	115 314776	3SOMRSET	115	1	LN	245.3	157.2	262.0	93.6	1151	314766	6LOUISA	230 314777	6S ANNA	230 1
314061	6LOUDOUN	230 314913	8LOUDOUN	500	1	TR	904.5	624.5	942.7	96.0	1324	314930	8MOSBY	500 314933	8BRAMBLETON	500 1
314061	6LOUDOUN	230 314913	8LOUDOUN	500	2	TR	899.2	620.7	957.3	93.9	1324	314930	8MOSBY	500 314933	8BRAMBLETON	500 1

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Shevenock

**DIRECT TESTIMONY
OF
ROBERT J. SHEVENOCK II
ON BEHALF OF
VIRGINIA ELECTRIC AND POWER COMPANY
BEFORE THE
STATE CORPORATION COMMISSION OF VIRGINIA
CASE NO. PUE-2014-00086**

1 **Q. Please state your name and position with Virginia Electric and Power Company**
2 **(“Dominion Virginia Power” or the “Company”).**

3 A. My name is Robert J. Shevenock II, and I am a Consulting Engineer in the Electric
4 Transmission Line Engineering department of the Company. My business address is
5 One James River Plaza, 701 East Cary Street, Richmond, Virginia 23219.

6 **Q. What is your educational and professional background?**

7 A. I received a Bachelor of Science degree in Electrical Engineering from Pennsylvania
8 State University in 1985. Since that time, I have held various engineering titles with
9 the Company in the Electric Transmission Line Engineering department.

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

11 A. I am responsible for the estimating and engineering design on high voltage
12 transmission line projects from 69 kV to 500 kV.

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

14 A. In order to maintain the reliability and structural integrity of its transmission system
15 and to comply with mandatory North American Electric Reliability Corporation
16 (“NERC”) Reliability Standards by increasing transmission capacity, Dominion
17 Virginia Power proposes to build, entirely within existing right-of-way, a second 500

1 kV Brambleton-Mosby line (to be designated Line #546) in Loudoun County and
2 perform associated work at existing Mosby Switching Station (“Mosby Station”) and
3 Brambleton Substation (collectively, the “Project”).

4 I will describe the design characteristics of the transmission line proposed in the
5 Application, and I will provide electric and magnetic field (“EMF”) data for the
6 proposed facilities. I am sponsoring Sections I.D, I.F, II.A.3, II.A.6, II.B and IV of
7 the Appendix. I am also co-sponsoring Section I.A and I.G with Company Witnesses
8 Peter Nedwick and Christopher Lybolt, respectively.

9 **Q. Please describe the design of the transmission lines for the proposed Project.**

10 A. The proposed Project will be built with new galvanized steel towers, as described in
11 Section II.B.2 of the Appendix. Proposed 500 kV Line #546, along with relocated
12 Line #2094, will be entirely within the existing right-of-way and built to current
13 Company specifications, using triple 1351.5 ACSR conductor for the Project. The
14 Project will have a new transfer capability of at least 4330 MVA.

15 **Q. What is the estimated construction cost for the proposed Project?**

16 A. The estimated cost of the Project is \$27.3 million (\$17.4 million for transmission line
17 construction and \$9.9 million for station work). All costs are in 2014 dollars.
18 The GIS building at Brambleton Substation, which will ultimately accommodate the
19 Project, has been approved by PJM and is estimated to cost approximately \$16.3
20 million.

1 **Q. How long will it take to construct the proposed Project?**

2 A. The in-service date for the proposed Project is the summer (commencing June 1) of
3 2018.

4 The estimated construction time for the Project is 17 months. A period of 12 months
5 will be needed for engineering, material procurement, and construction permitting.

6 **Q. Have you made calculations of the EMF for the proposed lines?**

7 A. Yes, and they are shown in Section IV.A of the Appendix for various loading
8 conditions expected to occur at the edges of the right-of-way. Magnetic field levels
9 ranging from 18.431 milligauss ("mG") to 79.881 mG were calculated for existing
10 lines at the edges of the right-of-way based on historical average and peak loading. In
11 comparison, magnetic field levels ranging from 18.351 mG to 71.390 mG were
12 calculated for the proposed Project at the edges of the right-of-way based on average
13 and peak loading expected to occur in 2018 with the Project in service.

14 **Q. The information you have provided in Section IV.A of the Appendix shows the**
15 **calculated maximum EMF at the edge of the rights-of-way. How do the**
16 **strengths of the maximum magnetic fields at the edge of the right-of-way**
17 **compare to magnetic fields found elsewhere?**

18 A. The field strengths shown in Appendix Section IV.A can be compared to those
19 created by other electrical sources. For example, a hair dryer produces 300 mG or
20 more, a copy machine can produce 90 mG or more, and an electric power saw can
21 produce 40 mG or more, depending on the circumstances and operation of these
22 devices. The strength of the field received by the person operating these devices

1 would, of course, depend on the distance between the device and the person operating
2 it. Magnetic field strength diminishes rapidly as distance from the source increases.
3 The decrease is proportional to the inverse square of the distance. For example, a
4 hypothetical magnetic field strength of 10 mG at the edge of the right-of-way
5 (defined as 50 feet from the centerline) would decrease to 2.5 mG at a point 50 feet
6 outside of the right-of-way.

7 **Q. Does this conclude your prefiled direct testimony?**

8 **A.** Yes, it does.

**DIRECT TESTIMONY
OF
CHRIS A. LYBOLT
ON BEHALF OF
VIRGINIA ELECTRIC AND POWER COMPANY
BEFORE THE
STATE CORPORATION COMMISSION OF VIRGINIA
CASE NO. PUE-2014-00086**

1 **Q.** Please state your name and position with Virginia Electric and Power Company
2 (“Dominion Virginia Power” or the “Company”).

3 **A.** My name is Chris A. Lybolt, and I am an Engineer III in the Substation Engineering
4 section of the Electric Transmission group of the Company. My business address is
5 2400 Grayland Avenue, Richmond, Virginia 23220.

6 **Q.** What is your educational and professional background?

7 **A.** In 1991, I earned a Bachelor of Science degree in Electrical Engineering from
8 Manhattan College in Riverdale, New York. From 1991 to 2006, I worked for Jersey
9 Central Power & Light Company in Morristown, New Jersey, in a variety of
10 positions in System Planning, Customer Services Engineering, Project Management,
11 Field Operations and , and Operation Services. From 2006 to 2007, I worked as Field
12 Service Manager at Virginia Transformer Company in Roanoke, Virginia, where my
13 responsibilities included the coordination of the delivery, installation, and
14 maintenance of power transformers from three production facilities, both
15 domestically and internationally. From 2007 to 2010, I worked as an Engineer I at
16 American Electric Power Company in Roanoke, Virginia. My responsibilities
17 included the preparation of conceptual designs, scope documents and cost estimates
18 for major capital and reliability substation projects. From 2010 to 2012, I worked as

1 a Program Manager at Dresser-Rand - Synchrony Business Unit in Salem, Virginia.
2 My responsibilities included all project management responsibilities for the United
3 States Department of Defense contracts as they related to the development,
4 engineering, manufacturing, testing, and installation of magnetic bearings. Since
5 2012, I have been employed at Dominion Virginia Power as an Engineer III

6 **Q. What are your responsibilities as an Engineer III?**

7 A. I am responsible for conceptual design, scope development, and cost estimating for
8 all new high voltage transmission switching stations, transmission substations and
9 distribution substations for the Company.

10 **Q. What is the purpose of your direct testimony?**

11 A. In order to maintain the reliability and structural integrity of its transmission system
12 and to comply with mandatory North American Electric Reliability Corporation
13 ("NERC") Reliability Standards by increasing transmission capacity, Dominion
14 Virginia Power proposes to build, entirely within existing right-of-way, a second 500
15 kV Brambleton-Mosby line (to be designated Line #546) in Loudoun County and
16 perform associated work at existing Mosby Switching Station ("Mosby Station") and
17 Brambleton Substation (collectively, the "Project").

18 I will describe the work to be performed at the Company's existing stations. I am
19 also sponsoring Section II.C of the Appendix and co-sponsoring with Company
20 Witness Robert J. Shevenock II the cost estimate provided in Section I.G of the
21 Appendix for this station work.

1 **Q. Please describe the work to be done at the Brambleton Substation.**

2 A. The proposed work at Brambleton Substation involves the addition of one new 500
3 kV terminal. This work will include the addition of two 500 kV, 4000A Gas
4 Insulated Substation (“GIS”) circuit breakers; five 500 kV, 4000A GIS disconnect
5 switches; six 500kV, 4000A, GIS ground switches; three 500 kV Coupling Capacitor
6 Voltage Transformers (“CCVTs”), and three lightning arresters.

7 **Q. Please describe the work to be done at the Mosby Station.**

8 A. The proposed work at Mosby Station for the Project involves the addition of one new
9 500 kV terminal; one 500 kV, 4000A circuit breaker; two 500 kV, 4000A switches;
10 and three 500 kV CCVTs.

11 As noted in Section I.A. of the Appendix, there will be additional work at the existing
12 stations outside the scope of the Project, including the installation of four 500 kV
13 breakers at Brambleton Substation, in addition to the two included in the Project, and
14 one new 500 kV breaker at Mosby Station. In addition, the Company is planning to
15 add a GIS building within the fence at Brambleton Substation in December 2015.

16 **Q. What is the estimated cost of the substation work?**

17 A. As set forth in Section I.G of the Appendix, The estimated cost of work at the stations
18 is approximately \$9.9 million. All costs are in 2014 dollars.

19 The GIS building at Brambleton Substation has been approved by PJM and is
20 estimated to cost approximately \$16.3 million.

1 Q. Does this conclude your prefiled direct testimony?

2 A. Yes, it does.

**DIRECT TESTIMONY
OF
STEFAN R. BROOKS
ON BEHALF OF
VIRGINIA ELECTRIC AND POWER COMPANY
BEFORE THE
STATE CORPORATION COMMISSION OF VIRGINIA
CASE NO. PUE-2014-00086**

1 **Q. Please state your name and position with Virginia Electric and Power**
2 **Company (“Dominion Virginia Power” or the “Company”).**

3 **A.** My name is Stefan R. Brooks, and I am an Engineer II for the Company. My
4 office is located at One James River Plaza, 701 East Cary Street, Richmond,
5 Virginia 23219.

6 **Q. What is your educational and professional background?**

7 **A.** I graduated from Old Dominion University in 1997 with a Bachelor of Science
8 degree in Engineering Technology. I also hold an Associates Degree in
9 Architectural Engineering Technology from John Tyler Community College
10 which I received in 1994. While attending John Tyler Community College I also
11 obtained two Career Studies Certificates, one in Transportation, Location &
12 Design and the other in Surveying. From 1997 to 2006 I worked as a Civil
13 Engineer for Timmons Group in Richmond, Virginia. In 2005 I obtained my
14 license as a Professional Engineer in the State of Virginia. In 2006, I joined
15 McCrone, Inc. where I worked as a Civil Engineer until the Richmond office
16 closed in 2010, after which I worked for Nyfeler Associates as a Civil Engineer
17 and Project Manager until joining Dominion Virginia Power in 2011 in my
18 current position in the Transmission Right-of-Way group.

1 **Q. What are your responsibilities as Engineer II?**

2 A. My responsibilities include identification of appropriate routes for transmission
3 lines and sites for substations and obtaining necessary federal, state and local
4 approvals and environmental permits for those facilities. I also review in general
5 the site plans prepared for substations to ensure that they meet the needs and
6 specifications of the Company. In this position I work closely with government
7 officials, permitting agencies, property owners and other interested parties, as
8 well as with other Company personnel, to develop facilities that are required by
9 the public convenience and necessity and that reasonably minimize environmental
10 and other impacts on the public in a reliable and cost-effective manner.

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

12 A. In order to maintain the reliability and structural integrity of its transmission
13 system and to comply with mandatory North American Electric Reliability
14 Corporation (“NERC”) Reliability Standards by increasing transmission capacity,
15 Dominion Virginia Power proposes to build, entirely within existing right-of-way,
16 a second 500 kV Brambleton-Mosby line (to be designated Line #546) in
17 Loudoun County and perform associated work at existing Mosby Switching
18 Station (“Mosby Station”) and Brambleton Substation (collectively, the
19 “Project”).

20 I will discuss the route for the Rebuild Project as shown in Appendix Attachment
21 II.A.2. In addition, I am sponsoring Sections II.A.1, 2, 4, 5, and 7-9; III and V of
22 the Appendix. I also am sponsoring the DEQ Supplement.

1 **Q. Please provide a description of the existing right-of-way to be used for the**
2 **Project.**

3 A. The approximately 5.2-mile transmission line is located within Loudoun County.
4 The entirety of the route for the proposed Project utilizes an existing transmission
5 line right-of-way which is currently occupied by 500 kV Line #558, approved for
6 rebuild in Case No. PUE-2013-00110, and 230 kV Line #2045 and 2094. The
7 existing right-of-way is 250 feet in width and was acquired in 1966.

8 **Q. Did the Company consider any alternate routes for the Project?**

9 A. Because the existing right-of-way is adequate to construct the proposed Project,
10 no new right-of-way is necessary. Given the availability of existing right-of-way
11 and the statutory preference given to the use of existing rights-of-way, and
12 because additional costs and environmental impacts would be associated with the
13 acquisition and construction of new right-of-way, the Company did not consider
14 any alternate routes for this Project.

15 **Q. Please discuss the resources in the project area and summarize the activities**
16 **that have been and will be undertaken by the Company to reasonably**
17 **minimize adverse impacts of the Rebuild Project on the scenic assets, historic**
18 **resources and environment of the area concerned.**

19 A. By using existing right-of-way for the entire length of the proposed rebuild, the
20 Project is expected to have minimal impact on area resources.

21 The character of the area around the existing right-of-way ranges between
22 suburban and rural land uses. The Loudoun County General Plan (General Plan)

1 identifies this area as a transitional area with higher density developments
2 encouraged to the east of the project corridor, and lower density agricultural uses
3 encouraged to the west. Specifically, the existing line passes through several land
4 use policy areas including the Suburban Policy Area and the Lower Foley
5 Transition Area. According to the General Plan, the Suburban Policy Area is
6 where most of the residential and commercial growth within the county has
7 occurred over the past fifteen years.

8 The existing transmission line right-of-way does not cross any site listed on the
9 National Register of Historic Places. The Project is not proximate to and does
10 not cross any scenic byways.

11 DEQ will conduct an environmental and permitting review of the Company's
12 application, including the solicitation of comments from relevant agencies. The
13 Company has developed the DEQ Supplement attached to this application based
14 on previous Company coordination with the DEQ. The DEQ Supplement
15 contains, in addition to a brief description of the Project, information on impacts
16 and the status of agency review with respect to: air quality; water withdrawals
17 and discharges; wetlands; solid and hazardous waste; natural heritage and
18 endangered species; erosion and sediment control; archeological, historic, scenic,
19 cultural and architectural resources; use of pesticides and herbicides; geology and
20 mineral resources; wildlife resources; recreation, agricultural and forest resources;
21 and transportation infrastructure. The Project is located entirely within existing
22 transmission right-of-way containing one 500 kV line so impacts of the Rebuild
23 Project will be incremental and reasonably minimized. The appropriate

1 environmental studies will be made of these areas before construction begins.

2 Clearing and maintenance of the right-of-way will be done in such a manner that
3 buffers of vegetation will be retained as much as possible. The DEQ Supplement
4 also discusses the permits that will be required and presents comment letters and
5 other materials the Company has obtained regarding the Project from relevant
6 agencies as a result of its own efforts.

7 The agency comments that were received address permits that may be required
8 from the environmental agencies and steps to minimize impacts to environmental
9 resources to be taken where appropriate. Copies of this correspondence, and the
10 Company's analysis of it, are contained in the DEQ Supplement.

11 **Q. When will the Company apply for the required permits?**

12 A. After approval by the Commission, the Company will survey the existing right-of-
13 way and then perform the necessary environmental surveys (including wetlands,
14 cultural resources and rare species). After these surveys are complete,
15 applications to the U.S. Army Corps of Engineers, Virginia Marine Resources
16 Commission, DEQ and Virginia Department of Transportation will be submitted
17 as required.

18 **Q. What contacts has the Company made with impacted localities?**

19 A. Dominion Virginia Power has met or spoken with a number of local, state and
20 federal officials to inform them of the Project in Virginia. On March 27, 2014,
21 Company representatives met via conference call with Loudoun County
22 Supervisor Janet S. Clarke.

1 On August 12, 2014, the Company hosted a public open house for the Project at
2 John Champe High School in Loudoun County. Representatives for the Company
3 were present to inform the public about the electrical need, engineering, real
4 estate, regulatory process, permitting and construction for the Project. In total,
5 over 15 people attended the open house.

6 Dominion Virginia Power also sent informational letters to approximately 520
7 area property owners of all parcels within 500 feet of the right-of-way and all
8 Home Owner Association and developer contacts provided by Loudoun County.
9 The mailing to these property owners is included as Attachment III.B.2 to the
10 Appendix.

11 Additional information is provided to the public through a website dedicated to
12 the Project: www.dom.com/about/electric-transmission/brambleton/index.jsp.

13 The website includes route maps, an explanation of need, a description of the
14 Project and its impacts benefits, information on the Commission review process,
15 structure diagrams and answers to frequently asked questions. The letter to
16 residents advised readers to visit www.dom.com and enter the search word
17 "Brambleton" for more information regarding the Project.

18 **Q. Has the Company complied with Va. Code § 15.2-2202 D?**

19 A. Yes. In addition to the contacts described above and in accordance with Va. Code
20 § 15.2-2202 D, a letter dated July 29, 2014, was sent to County Administrator,
21 Tim Hemstreet, advising him of the Company's intention to file this application
22 and inviting the County to consult with the Company about the Project. This
23 letter is contained in Attachment III.B.1 of the Appendix.

- 1 Q. Does this complete your prepared testimony?
- 2 A. Yes, it does.