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**BY HAND DELIVERY**

Joel H. Peck, Clerk  
Document Control Center  
State Corporation Commission  
1300 East Main Street  
Tyler Building - 1st Floor  
Richmond, Virginia 23219

*Application of Virginia Electric and Power Company  
For approval and certification of electric transmission facilities:  
Evergreen Mills 230 kV Line Loops and Evergreen Mills Switching Station  
**Case No. PUR-2019-00191***

Dear Mr. Peck:

Please find enclosed for filing in the above-captioned proceeding an unbound original and fifteen (15) bound copies of the application for approval of electric facilities on behalf of Virginia Electric and Power Company (the "Company"). This filing contains the Application, Appendix, Direct Testimony, DEQ Supplement, and Environmental Routing Study, including attachments.

As indicated in Section II.A.12.b of the Appendix, three (3) color copies of the map of the Virginia Department of Transportation "General Highway Map" for Loudoun County were hand delivered to the Commission's Division of Public Utility Regulation today. The Company also hand delivered to the Division of Public Utility Regulation a CD-ROM containing the digital geographic information system ("GIS") map required by § 56-46.1 of the Code of Virginia, which is Attachment II.A.2 to the Appendix.

Please do not hesitate to call if you have any questions in regard to the enclosed.

Very truly yours,



Vishwa B. Link

Enclosures

cc: William H. Chambliss, Esq.  
David J. DePippo, Esq.



**Dominion  
Energy®**

**Application, Appendix,  
DEQ Supplement, Direct  
Testimony and Exhibits of  
Virginia Electric and  
Power Company**

**Before the State Corporation  
Commission of Virginia**

**Evergreen Mills 230 kV Line  
Loops and Evergreen Mills  
Switching Station**

**Application No. 295**

**Case No. PUR-2019-00191**

**Filed: December 2, 2019**

**Volume 1 of 2**

# 1 SUPPLEMENT

COMMONWEALTH OF VIRGINIA  
BEFORE THE  
STATE CORPORATION COMMISSION

APPLICATION OF  
VIRGINIA ELECTRIC AND POWER COMPANY  
FOR APPROVAL AND CERTIFICATION  
OF ELECTRIC FACILITIES

Evergreen Mills 230 kV Line Loops and  
Evergreen Mills Switching Station

Application No. 295

Case No. PUR-2019-00191

Filed: December 2, 2019

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COMMONWEALTH OF VIRGINIA  
STATE CORPORATION COMMISSION

APPLICATION OF	)	
	)	
VIRGINIA ELECTRIC AND POWER COMPANY	)	Case No. PUR-2019-00191
	)	
For approval and certification of electric	)	
facilities: Evergreen Mills 230 kV Line	)	
Loops and Evergreen Mills Switching Station	)	

**APPLICATION OF VIRGINIA ELECTRIC AND POWER COMPANY FOR  
APPROVAL AND CERTIFICATION OF ELECTRIC FACILITIES: EVERGREEN  
MILLS 230 KV LINE LOOPS AND EVERGREEN MILLS SWITCHING STATION**

Pursuant to § 56-46.1 of the Code of Virginia (“Va. Code”) and the Utility Facilities Act, Va. Code § 56-265.1 *et seq.*, Virginia Electric and Power Company (“Dominion Energy Virginia” or the “Company”), by counsel, files with the State Corporation Commission of Virginia (the “Commission”) this application for approval and certification of electric facilities (the “Application”). In support of its Application, Dominion Energy Virginia respectfully shows as follows:

1. Dominion Energy Virginia is a public service corporation organized under the laws of the Commonwealth of Virginia furnishing electric service to the public within its Virginia service territory. The Company also furnishes electric service to the public in portions of North Carolina. Dominion Energy Virginia’s electric system—consisting of facilities for the generation, transmission, and distribution of electric energy—is interconnected with the electric systems of neighboring utilities and is a part of the interconnected network of electric systems serving the continental United States. By reason of its operation in two states and its interconnections with other utilities, the Company is engaged in interstate commerce.

2. In order to perform its legal duty to furnish adequate and reliable electric service, Dominion Energy Virginia must, from time to time, replace existing transmission facilities or

construct new transmission facilities in its system. The electric facilities proposed in this Application are necessary so that Dominion Energy Virginia can continue to provide reliable electric service to its customers, consistent with applicable reliability standards.

3. In this Application, in order to provide service requested by a retail electric service customer (the "Customer"), to maintain reliable service for the overall growth in the area, and to comply with mandatory North American Electric Reliability Corporation ("NERC") Reliability Standards, Dominion Energy Virginia proposes, in Loudoun County, Virginia, to construct: (i) a new 230 kV switching station on land owned by the Customer ("Evergreen Mills Switching Station"); (ii) a new approximately 0.6-mile 230 kV double circuit loop of the Company's existing 230 kV Brambleton-Yardley Ridge Line #2172 on new right-of-way, supported by seven structures, from a tap point along those lines (the "Evergreen Mills Junction") to Evergreen Mills Switching Station (the "#2172 Loop"); and (iii) a new approximately 0.6-mile 230 kV double circuit loop of the Company's existing 230 kV Brambleton-Poland Road Line #2183 on new right-of-way, supported by nine structures, from Evergreen Mills Junction to Evergreen Mills Switching Station (the "#2183 Loop"). The Evergreen Mills Switching Station, the #2172 Loop, and the #2183 Loop are collectively referred to as the "Project."

4. The Company proposes to construct the Project in two parts. During Part A, the Company proposes to acquire the 160-foot right-of-way for the full Project, to construct the Evergreen Mills Switching Station, and to construct the #2172 Loop. During Part B, the Company proposes to construct the #2183 Loop and to install the remaining breakers at the Evergreen Mills Switching Station.

5. The Project is needed to serve load growth in Loudoun County's "Data Center Alley"—the largest market for data center capacity in the United States. Part A of the Project is needed to support future buildout of the Customer's data center campus (the "Customer Campus"). The Customer preferred a transmission interconnection from initial connect in May 2021, and agreed to pay to accelerate the transmission interconnection for the Customer Campus consistent with the Company's Terms and Conditions. The Customer has also requested a breaker-and-a-half scheme with each of four ultimate 230kV feeds to the Customer coming off independent 230 kV bus sections to enhance its service reliability. The Customer will also pay for the additional breakers requested consistent with the Company's Terms and Conditions. Part B of the Project is needed to resolve a 300 MW N-1-1 Reliability Criteria violation projected for 2025 in the same area. Beyond the Project, other needs exist in this dynamic area based on current load projections. The Company is studying electrical alternatives to meet these other needs, and will propose future projects as needed. Absent the Project, the Company's existing transmission facilities located in this area would not be able to provide adequate service to the Customer consistent with NERC Reliability Criteria.

6. The route proposed in connection with the Project (the "Proposed Route") is approximately 0.6 mile and will consist of fourteen new additional structures and two replacement structures, seven supporting the #2172 Loop, and nine supporting the #2183 Loop. The proposed tap point for both Loops—Evergreen Mills Junction—is located in existing right-of-way, but the Proposed Route will require new right-of-way over land owned by three landowners, one of whom is the Customer.

7. The expected in-service date for Part A of the Project is May 1, 2021. The in-service date for Part B of the proposed Project is currently in 2025, although additional load growth in the area may require Part B to be constructed sooner.

8. The estimated conceptual cost of Part A of the Project is approximately \$21.2 million (in 2019 dollars), which includes approximately \$11.4 million for transmission-related work and approximately \$9.8 million for substation-related work. The estimated conceptual cost of Part B of the Project is approximately \$9.1 million (in 2019 dollars), which includes \$4.1 million for transmission-related work and \$5.0 million for substation-related work. As discussed further in Section I.I of the Appendix, the Customer will pay a portion of these costs consistent with the Company's Terms and Conditions.

9. The Proposed Route will afford the best means of meeting the need for the Project and the continuing need for reliable service while reasonably minimizing adverse impact on the scenic, environmental and historic assets of the area. Though the Company developed two alternative routes that were electrically equivalent to the Proposed Route, they were rejected and are not proposed for public notice because they are longer, more costly, and would have had significantly greater impacts on resources than the Proposed Route. These alternative routes, as well as the impact of the Project on scenic, environmental, and historical features, is described in detail in Section III of the Appendix and in the Routing Study included with this Application.

10. Based on consultations with the Virginia Department of Environmental Quality ("DEQ"), the Company has developed a supplement ("DEQ Supplement") containing information designed to facilitate review and analysis of the proposed facilities by the DEQ and other relevant agencies. The DEQ Supplement is attached to this Application.



11. Based on the Company's experience, the advice of consultants, and a review of published studies by experts in the field, the Company believes that there is no causal link to harmful health or safety effects from electric and magnetic fields generated by the Company's existing or proposed facilities. Section IV of the Appendix provides further details on Dominion Energy Virginia's consideration of the health aspects of electric and magnetic fields.

12. Section V of the Appendix provides a proposed route description for public notice purposes and a list of federal, state, and local agencies and officials that the Company has or will notify about the Application.

13. In addition to the information provided in the Appendix, the DEQ Supplement, and the Routing Study, this Application is supported by the prefiled direct testimony of Company Witnesses Harrison S. Potter, Robert J. Shevenock II, Santosh Bhattarai, Laura P. Meadows, and Barry Baker.

WHEREFORE, Dominion Energy Virginia respectfully requests that the Commission:

- (a) direct that notice of this Application be given as required by § 56-46.1 of the Code of Virginia;
- (b) approve pursuant to § 56-46.1 of the Code of Virginia the construction of the Project; and,
- (c) grant a certificate of public convenience and necessity for the facilities under the Utility Facilities Act, § 56-265.1 *et seq.* of the Code of Virginia.

## VIRGINIA ELECTRIC AND POWER COMPANY

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December 2, 2019