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September 15, 2023

**BY ELECTRONIC DELIVERY**

Mr. Bernard Logan, Clerk  
c/o Document Control Center  
State Corporation Commission  
1300 East Main Street  
Tyler Building - First Floor  
Richmond, Virginia 23219

*Application of Virginia Electric and Power Company For approval and certification of electric transmission facilities under Va. Code § 56-46.1 and the Utility Facilities Act, Va. Code § 56-265.1 et seq.*

**Case No. PUR-2017-00002**

Dear Mr. Logan:

Please find enclosed for electronic filing in the above-captioned proceeding Virginia Electric and Power Company's September 15, 2023 *Quarterly Update Report*.

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

Highest regards,

/s/ Jontille D. Ray

Jontille D. Ray

Encl.

Cc: David J. DePippo, Esq.  
Vishwa B. Link, Esq.  
Briana M. Jackson, Esq.  
Service List

**Idylwood Substation Rearrangement Project**

**Case No. PUR-2017-00002**

**Quarterly Update Report**

**September 15, 2023**

## Background

On September 8, 2021, the Virginia State Corporation Commission (“SCC”) issued an Order on Motion authorizing Virginia Electric and Power Company d/b/a/ Dominion Energy Virginia (“the Company”) to extend the project construction to the new December 31, 2026 in-service date for the Idylwood Substation Rearrangement Project (“Rebuild Project” or “Project”).<sup>1</sup>

The Company, in part, requested the in-service date extension because:

The unanticipated delay in obtaining the necessary local approvals has disrupted the Company’s prior scheduling, sequencing, and planning for the construction of the Rebuild Project requiring the Company to release any prior outage requests it had made to support the prior schedule. In addition, the ability to obtain and coordinate both distribution- and transmission-side outages in northern Virginia, generally, and in the area of the Project, specifically, has become increasingly difficult due to customer and system loading. For example, because obtaining outages in the peak loading seasons of winter and summer generally is not possible, it essentially is mandatory that the work must be performed during the fall and spring. Moreover, the limited fall and spring outage windows must accommodate increased outage needs in the Northern Virginia area for ongoing projects and system needs. The Company also must coordinate its outages to ensure reliability contingencies in the area and must coordinate outages with certain customers, such as the Washington Metropolitan Area Transit Authority. Outages must be submitted months in advance. Adding to those scheduling difficulties, as part of compliance with its local approvals, construction is limited to certain times and must be performed in a manner that reduces noise to ensure the Company minimizes impacts to the nearby community. Recent work on another GIS project at a different substation has further informed the Company’s view on the added complexity of the installation of new GIS systems. Finally, compounding these variables, to the greatest extent possible, the Company must keep the Idylwood Substation energized during project construction to meet the growing load needs of the surrounding areas. These current circumstances have led to more complex, on-the-ground logistics and construction sequencing than initially anticipated for this Project during the proceeding before the Commission.<sup>2</sup>

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<sup>1</sup> *Application of Virginia Electric and Power Company For approval and certification of electric transmission facilities under Va. Code § 56-46.1 and the Utility Facilities Act, Va. Code § 56-265.1 et seq.*, PUR-2017-00002, Order on Motion at 4 (Sept. 8, 2021).

<sup>2</sup> *Application of Virginia Electric and Power Company For approval and certification of electric transmission facilities: Idylwood Substation Rebuild and Rearrangement of 230 kV Transmission Lines #202, #207, #251, #266, #2035, and #2097*, PUR-2017-00002, Motion of Virginia Electric and Power Company for Relief from May 31, 2020 In-Service Date at 4-5 (Apr. 27, 2020).

As required by the Order on Motion, the Company shall:

- Submit quarterly construction status updates regarding the Rebuild Project to the Director of the Commission's Division of Public Utility Regulation until the Rebuild Project is completed or until further order of the Commission.
- Post each quarterly construction status update on the Company's website: [www.DominionEnergy.com/shreve](http://www.DominionEnergy.com/shreve).
- Post its Construction Timeline on the website and update the Construction Timeline, as needed, to maintain accuracy.

### **Project Overview**

The Idylwood Substation Rebuild Project rebuilds the existing Idylwood Substation on Shreve Road, originally built in the late 1950s, to support growing capacity and projected reliability concerns in the region. These enhancements will allow Dominion Energy to continue providing safe and reliable electric service to the community.

Due to the limited space at the site, Dominion Energy is investing in Gas Insulated Substation ("GIS") technology. The existing substation currently uses Air-Insulated Technology. By utilizing GIS technology, Dominion Energy will be able to largely utilize the substation's existing footprint while modernizing the facility to meet area demand and minimizing impact to surrounding neighbors. GIS is the best available technology and offers several benefits:

- GIS equipment takes up less space, allowing Dominion Energy to accommodate growth in the area, while operating within the existing property;
- GIS is more reliable than traditional air-insulated substations, meaning fewer outages for customers; and
- GIS requires less maintenance than traditional substations.

Idylwood Substation is a necessary and important component of the electrical system and is critical in maintaining reliability for the area. As such, it is necessary that most of the substation equipment remain energized while crews perform their work. This increases the complexity of the Project and has also impacted our timeline. To perform operations safely, crews must work in a limited space and temporarily relocate some of the equipment to install new equipment. Additionally, we must limit the number of crews working inside the substation at the same time.

### **Status Update**

Each quarter, the Company will provide a construction update on the following information:

- Permitting
- Achievements
- Challenges
- Upcoming Construction
- Public Outreach and Communications

- Budget
- Noteworthy Changes

### *Permitting*

On June 14, 2023, Fairfax County issued a building permit for the 230 kV GIS building. The Company does not anticipate the need for any additional permits for this project.

### *Achievements*

Since the June 15, 2023 Quarterly Update, the Company has accomplished the following milestones for the Project, including:

- In June 2023, landscaping was completed in certain areas of the front of the substation and near Holly Manor Drive.
- On June 22, 2023, the Company installed the backbone foundation for the east side of the future HICO 230 kV GIS enclosure.
- On August 1, 2023, HICO started construction on the 230 kV GIS building.
- In early August 2023, the Company completed the installation of the 230 kV capacitor bank foundations.
- The Cox lines were relocated in August 2023. Verizon is scheduled to begin their line relocation by the end of 2023. Dominion Distribution will also relocate the streetlights and underground the lighting cables by the end of 2023.

### *Key Challenges*

There were no challenges that impacted the schedule this quarter.

### *Upcoming Construction*

1. The Company is constructing the 230 kV reactor foundation and will continue to work on the HICO foundation for the 230 kV GIS building.

### *Public Outreach and Communications*

The most recent notifications were the following:

1. The Company will update the community before Verizon and Dominion Distribution complete their necessary relocation work, as this work may impact sidewalk and Shreve Road traffic.

### *Budget*

\$136.4 million of \$159 million spent.

### *Noteworthy Changes*

No additional noteworthy changes.

**CERTIFICATE OF SERVICE**

I hereby certify that on this 15th day of September 2023, a true and accurate copy of the foregoing, filed in Case No. PUR-2017-00002 was hand delivered, mailed first class, postage pre-paid, or sent by federal express to the following:

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*/s/ Jontille D. Ray*

Counsel