

**Virginia State Corporation Commission
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March 15, 2022

BY ELECTRONIC FILING

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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 *Quarterly Update Report*.

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

Highest regards,

/s/ Dan Bumpus

Dan Bumpus

Enclosures

cc: David J. DePippo, Esq.
Vishwa B. Link, Esq.
April M. Jones, Esq.
Service List



Idylwood Substation Rearrangement Project
Case No. PUR-2017-00002
Quarterly Update Report
March 15, 2022



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Background

On Sept. 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 Dec. 31, 2026 in-service date for the Idylwood Substation Rearrangement Project (“Rebuild Project” or “Project”).¹

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 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

¹ *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).*



logistics and construction sequencing than initially anticipated for this Project during the proceeding before the Commission.²

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.
- 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

² *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).*



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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

The Company plans to submit a building permit application to Fairfax County by April 2022 for the future 230 kV GIS building to have approval by October 2022. The Company intends to work diligently with Fairfax County to obtain approval on time, but if permit approval is not obtained by this date, it could delay the construction schedule.

Achievements

Since the Dec. 15, 2021 Quarterly Update, the Company has accomplished several milestones for the Project, including:

1. Underground distribution work at manholes on Shreve Road is mostly complete.
2. Solid Insulated Bus (SIB bus) work is complete.
3. Preparations are nearly complete for wall panel installation, including minor re-engineering and foundation work.
4. Temporary High Bus Structure is in place and awaiting energization.

Key Challenges

Although several key milestones have been achieved, the Company has faced several challenges this quarter, including:

1. Outage delays. Planned outages on our 230 kV Bus #5, which were initially scheduled for January 2022 were canceled and rescheduled for April 2022. These outages are needed to energize the temporary high bus structure. These outage cancellations are outside of the



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Project team's control and are subject to approval by the Dominion Energy System Operations Center and PJM and are based on a variety of factors for approval, including temperature, overall load in the area, other transmission assets with outages, etc.

2. Weather – the Project team lost eight days due to snow and three days due to rain.
3. Material delays – supply chain issues continue to impact the Project.
4. Contractor and re-engineering issues – while preparing to install the phase one wall foundations, the Company's contractors experienced several challenges (detailed below) which resulted in an installation start date delay. The wall panels are now scheduled to be installed in early April 2022. Contributing factors to the wall installation delay include:
 - Material delays: Screw piles and concrete.
 - Discovering issues with engineering drawing and identifying unmarked existing underground facilities.
 - Re-engineering wall foundations due to the previously unmarked facilities.
 - Repairing unmarked underground getaway distribution circuit accidentally cut by the Company's contractors.

Upcoming Construction

1. April 2022 – Begin cable splicing for 38 kV distribution lines
2. April 2022 – Begin wall panel installation
3. April 2022 – Energize temporary high bus structure
4. Summer 2022 – Remove transformer #4 from service and the site

Public Outreach and Communications

The Company has been in communication with the community about distribution work on Shreve Road. The Company will also explain some of the delays mentioned in the Quarterly Update, and below.

Notification for the following activities will occur:

1. High bus energization delay
2. Wall – phase one delay

Budget

\$97.8 million of \$159 million spent.

Noteworthy Changes

None.

