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McGuireWoods LLP
Gateway Plaza
800 East Canal Street
Richmond, VA 23219-3916
Phone: 804.775.1000
Fax: 804.775.1061
www.mcguirewoods.com

Jontille D. Ray
Direct: 804.775.1173

MCGUIREWOODS

jray@mcguirewoods.com
Fax: 804.775.1061

June 15, 2022

BY ELECTRONIC FILING

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 June 15, 2022 *Quarterly Update Report*.

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

Highest regards,

/s/ Jontille D. Ray

Jontille D. Ray

Enclosures

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

Dominion Energy®

Actions Speak Louder

Idylwood Substation Rearrangement Project

Case No. PUR-2017-00002

Quarterly Update Report

June 15, 2022

Dominion Energy

Actions Speak Louder

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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 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.[2]

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[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).

[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).

Dominion Energy

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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 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

In previous quarterly updates, the Company shared 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 stated that if permit approval is not obtained by this date, it could delay the construction schedule.

HICO, the Company's contractor for the 230 kV GIS building, plans to submit a building permit application by the end of 2022. This will occur once the building design has been completed, which is approximately 5-10 percent complete. After consulting with HICO, the Company made the decision to switch to a pre-cast GIS building, which will reduce the construction of the 230 kV GIS building by two months.

Achievements

Since the March 15, 2022 Quarterly Update, the Company has accomplished several milestones for the Project, including:

1. In late May 2022, all brick panels for Phase 1 of the new wall along Shreve Road were installed.
2. In early June 2022, concrete caps were installed on top of the walls.
3. In April 2022, the Company energized the temporary High Bus Structure and transformer #1.
4. Five underground distribution circuits have been transferred to the new 38 kV GIS building. Ten circuits remain to be completed as a part of this Project.
5. Transformer #4 has been removed from service and the site.

Key Challenges

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

1. Outage delays – Transmission outage scheduling, particularly in Northern Virginia, continues to present challenges for all transmission line and substation construction projects, including the Idylwood Substation Project. Transmission outages are increasingly difficult to obtain approvals for, schedule and to keep approved outage dates locked in. This dynamic is exacerbated in Northern Virginia due to the density and volume of new line extensions that are needed to accommodate new load requests as well as the continued forecasted load growth that is moving at an unprecedented rate. Company System Operation Center ("SOC") operators work with PJM to maintain system reliability and meet operational contingency planning criteria, but ultimately PJM is the authority that oversees line and substation outages.

Idylwood's location is critical to providing reliable power to Northern Virginia and to accommodate the rapid growth in the area as improvements are made across the region in Fairfax County and beyond. Previously scheduled outages for the 2035-line terminal relocation to Bus #6 in Fall 2022 are expected to be delayed due to other ongoing outages and system limitations, which will delay the start of the 230 kV GIS equipment by two months.

Because of the steadily increasing growth in Northern Virginia, the Company is addressing the outage challenge to minimize delays to the Idylwood Substation project and others currently under construction, or in the pre-construction phase. The Company has expeditiously prioritized support to help coordinate and prioritize outages. In addition to enhancing coordination with PJM, and ongoing system outage planning criteria and operational tolerances reviews, the Company added the following resources and responsibilities within the Electric Transmission organization:

a. Increased hiring in the outage planning engineer group.
b. New supervisor position in the SOC to oversee the long-term outage coordination team's efforts to identify opportunities to reduce congestion on the transmission system and maximize reliability. The position focuses on improvements in long-term transmission outage planning by providing project managers better visibility of outages before they are requested and finding projects that can share outages when possible.
c. New manager position in the Electric Transmission Project Execution group to focus on the work in Northern Virginia and provide more support to project managers.

The Company will continue to evaluate improvements in this area, in collaboration with PJM, and adjust where possible. The additional challenges include:

2. Weather – The Project team lost three days due to weather.
3. Equipment issues – The crane contractor experienced an equipment failure resulting in a loss of two days' work while installing the brick panels.
4. Material delays – Supply chain issues continue to impact the Project. The east main gate delivery has been delayed by the vendor due to material issues. There will be a temporary gate installed until the permanent gate arrives. The Company does not have an estimate on when the gate will arrive.

Upcoming Construction

1. Installation of the east main gate when it arrives on-site.
2. July 2022 – A portion of the temporary fence along Shreve Road will be removed and the new brick panels will be visible to the community.
3. June/July 2022 - Remove Bus #2 from service.
4. June/July 2022 - Remove transformer #2 from service.
5. June/July 2022 - Install foundations for the 2035-line relocation.
6. Remove old 38 kV bay and foundations.

7. Fall 2022 – Install structures for 2035-line relocation, pending outage approval.

Public Outreach and Communications

No major updates to share this quarter. Most activities will occur within the substation and will not require special notification. However, some activities associated with the Idylwood-Tysons project will impact residents near Idylwood Substation in the summer and fall of 2022. The Company provided an update for those activities on June 3, 2022.

Notification for the following activities will occur:

1. Completion of panel installation for Phase 1 of the new wall.
2. Anticipated removal date for the temporary fence along Shreve Road.

Budget

$102 million of $159 million spent.

Noteworthy Changes

None.

CERTIFICATE OF SERVICE

I hereby certify that on this 15th day of June 2022, 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:

Alisson P. Klaiber, Esq.
William H. Harrison, Esq.
Office of the General Counsel
State Corporation Commission
1300 E. Main St., Tyler Bldg., 10th Fl.
Richmond, VA 23219

Joanna L. Faust, Esq.
Corinne N. Lockett, Esq.
Office of the Fairfax Attorney
1200 Government Center Parkway
Suite 549
Fairfax, VA 22035

Maryl A. Kerley
2570 Holly Manor Dr.
Falls Church, VA 22043

/s/ Jontille D. Ray

Counsel