Virginia State Corporation Commission
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Case Name (if known)	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.
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March 26, 2021

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 attached for electronic filing Virginia Electric and Power Company's Corrected Attachment A to the Motion for New In-Service Date filed on February 11, 2021 ("Motion"). In preparing the Supplemental Information Report, the Company found a typographical error in the construction schedule that was attached to the Motion as Attachment A. The Company has corrected the error, the date of the expected de-energization of the high bus, in the corrected version of the construction schedule submitted here. This corrected document is intended to replace the original construction schedule in its entirety.

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.
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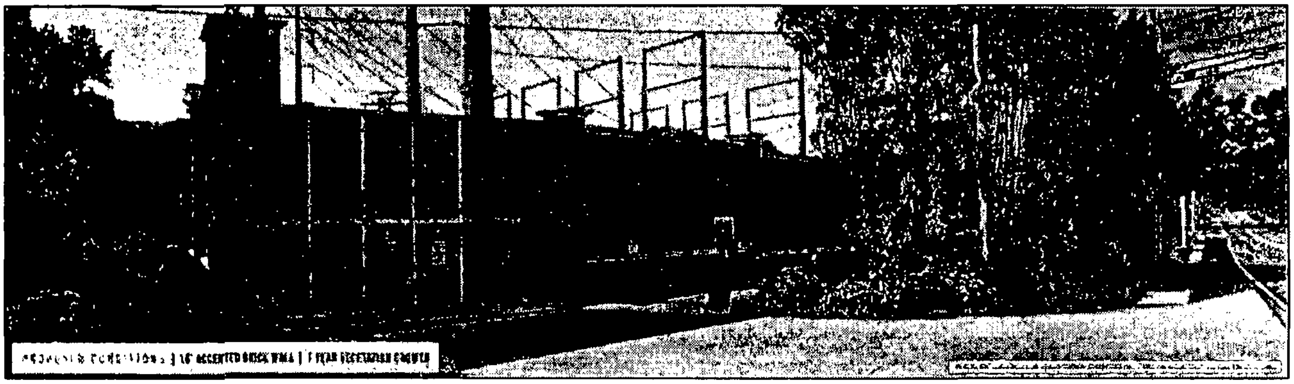
Idylwood Substation Rearrangement Project



Project Overview

The Idylwood Substation Rearrangement Project rebuilds the existing Idylwood Substation at Shreve Road, originally built in the late 1950s, in order to support growing capacity and projected reliability concerns in the region. These enhancements will allow us 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 our 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
- GIS requires less maintenance than traditional substations

Construction Timeline

The below timeline was created after receiving final permits needed to begin construction and reflect the most accurate and realistic timeframe to complete the project based on current known circumstances. This timeline does not include every aspect of the project, rather a high-level timeline of the key components needed to complete this project, as well as other construction activity that may be more noticeable by the community. Our project team would like to thank the community for their patience throughout this process and remember the timeline for individual activities is subject to change based on weather and other unforeseeable factors. The Company does believe, however, that the June. 30, 2026 energization date and overall construction completion date of Dec. 31, 2026 is achievable. The Company will periodically review this document and update it for changed circumstances.

2021		
January-June	38 kV GIS Building	Complete construction of the new GIS building that will house future distribution equipment.
June-December	38 kV GIS Connection	Connecting distribution equipment to 38 kV GIS building.
September-December	Brick Enclosure	Installation of permanent brick security enclosure section 1 (Shreve Road facing side). Landscaping to be installed after, timing subject to time of year to ensure successful growth. *Pending contractor engineering completion.
November	High Bus	Connect temporary construction high bus to new transformers and energize.
November	Transformer #4	Remove transformer #4 from service and remove from site.

2022	
January-March	Installing temporary structures to relocate transmission line to west side of the substation. Will be removed when 230 kV GIS building is complete.
March	Energizing circuits out of the 38 kV GIS building.
April	Replace overdutied breaker.
May	• Remove two existing transmission structures in the center of the substation. • Install foundation and bottom half of new transmission structure (remaining half to be installed towards the end of the project).
February	Remove distribution transformer #2 from service and remove from site.
May-July	Install 230 kV control house building foundations.
August	230 kV control house building installed.
August-November	Install four 230 kV backbone structures near 230 kV control house building and future 230 kV GIS building.
November-December	Install foundations for 230 kV GIS building.

2023	
January-October	Construct 230 kV GIS building and install associated equipment.

July-September	Install three 230 kV backbone structures on west side of 230 kV GIS building.
October-June 2024	Installing control cable and testing of equipment.

2024

January	Install reactor foundations. Flexible timeline, subject to change.
June-February 2025	Transmission line conductors moved to new 230 kV GIS building. Crews visible working on bucket trucks. *Subject to change based on outage approvals, weather, etc.
Fall	De-energize temporary construction high bus structure.

2025

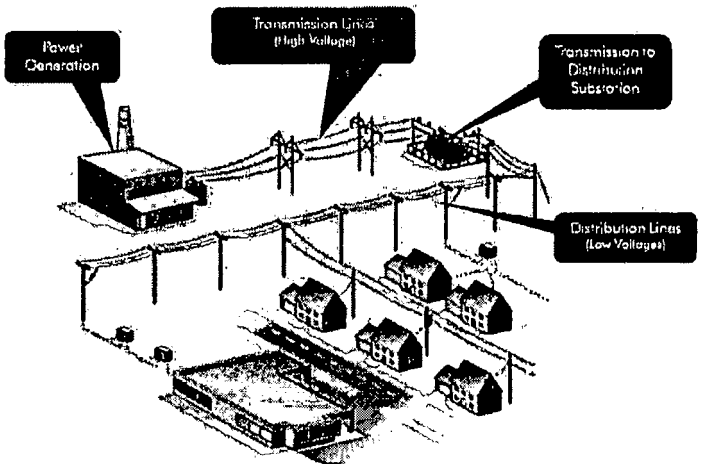
February-March	Relocating 230 kV reactor and re-assembling and processing. *Will involve running equipment 24 hours for approximately one week.
March	Transmission line work associated with the 230 kV GIS building complete.
June	Energize 230 kV reactor.
July	Install 230 kV capacitor bank. *Last piece of transmission equipment to be installed
July-January 2026	Remove old 230 kV equipment.

2026

January-December	• Construct remaining sides of permanent brick security enclosure. • Remove old fence. • Replace existing chain link fence with non-conductive fence in the back of the substation.
January-December	Grading, clean up, restoration, landscaping.
June 30	All new equipment expected to be energized.
December	Target construction completion date

What is a substation?

A substation is a facility that changes voltage from high to low or from low to high, among other important functions. When electric transmission lines enter a substation, the voltage is lowered using transformers. The lower voltage electricity is delivered to customers using electric distribution lines.



Item	Definition
Backbone Structure	A structure that drops the electric transmission conductor heights from an overhead structure to connect to the substation equipment.
Breaker	Protects other substation equipment in the event of an overload by detecting a fault and discontinuing electrical flow.
Bus	Metallic strip or bar (typically copper, brass or aluminum) that conducts electricity.
Circuit	Path in which electrons from a voltage or current source flow.
Conductor	A metallic wire that allows electrical current to flow through it. Conductors are the "lines" you see connected to electric transmission and distribution structures.
Construction Bus	A steel, linear structure which will bring the transmission power source from one end of a substation to another; Temporary in nature.
De-Energize	Remove from electrical service.
Energize	Electrical service is "live" or in service.
GIS	Gas insulated substation; specialized equipment used in areas where expansion of existing equipment is limited.
GIS Vault	Underground housing for electrical cable and equipment.
In-Service Date	Date that substation equipment is energized.
Reactor	Controls reactants on the system by regulating and stabilizing the impedance and capacitance on an electric transmission line.
SCC	State Corporation Commission - provides utility oversight in Virginia.
Transformer	Device that increases or decreases voltage.

CERTIFICATE OF SERVICE

I hereby certify that on this 26th day of March 2021, 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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