Dominion Supplemental Projects

Transmission Expansion Advisory Committee
December 1, 2026

Needs

Dominion Transmission Zone: Supplemental Equipment Material Condition, Performance and Risk

Need Number: DOM-2026-0039

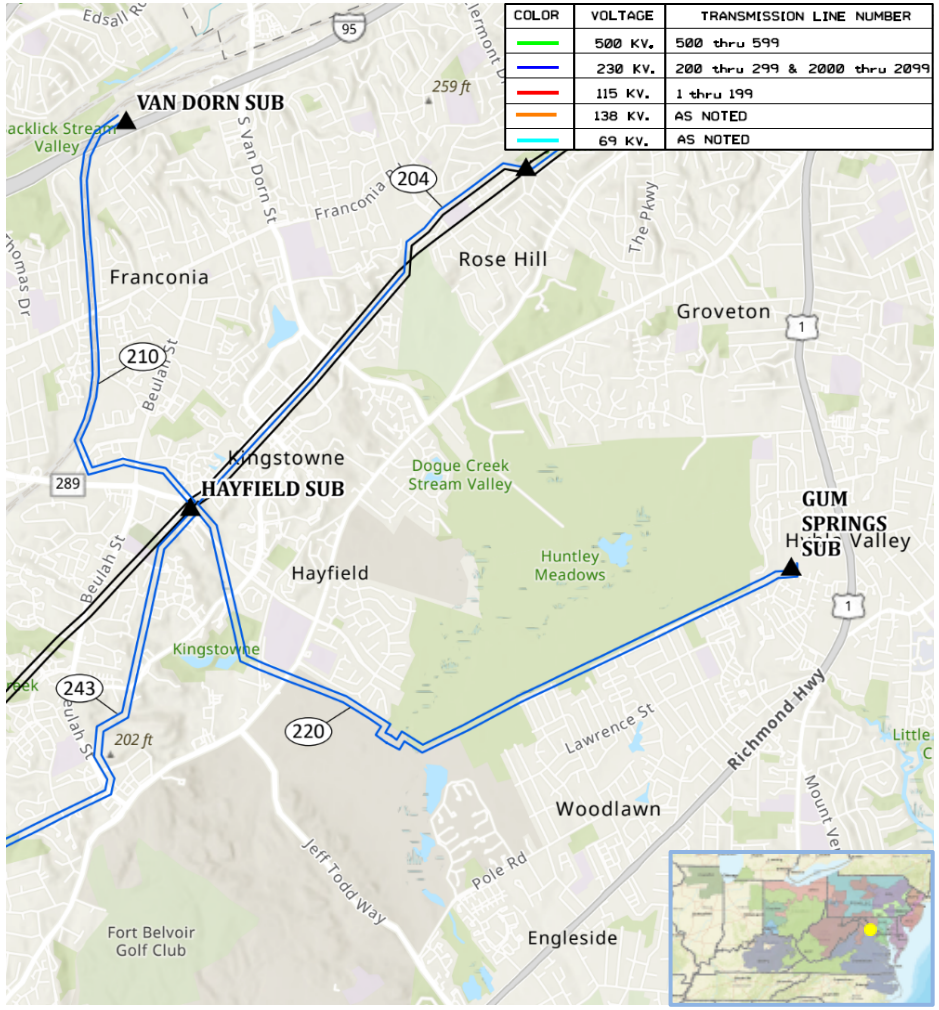
Process Stage: Need Meeting 12/01/2026

Project Driver: Equipment Material Condition, Performance and Risk

Specific Assumption Reference:
See details on Equipment Material Condition, Performance and Risk in Dominion's Planning Assumptions presented in December 2025.

Problem Statement:
Dominion Energy has identified a need to replace the approximately 2.9 mile-long 230 kV Line #210 (Hayfield – Van Dorn) which shares a double-circuit right-of-way with Line #243 (Ox – Van Dorn) based on Company's End-of-Life criteria, beginning at Structure #210/20 outside the Company's existing Van Dorn Substation, and ending at Structures #210/1A and #243/69 outside the Hayfield Substation

- A majority of Line #210, which shares structures with Line #243 in the Partial Rebuild Project area, was constructed in 1966 on COR-TEN® lattice-type structures.
- Industry experience indicates that equipment life is approximately 40 to 60 years for COR-TEN® structures, approximately 40 to 60 years for conductor and connectors, and approximately 50 years for porcelain insulators.
- Five of these structures are DC steel poles which replaced old towers in 2009.
- The conductor is 1109 ACAR 24/13 90C MOT.



Dominion Transmission Zone: Supplemental Equipment Material Condition, Performance and Risk

Need Number: DOM-2026-0049

Process Stage: Need Meeting 12/1/2026

Project Driver: Equipment Material Condition, Performance and Risk

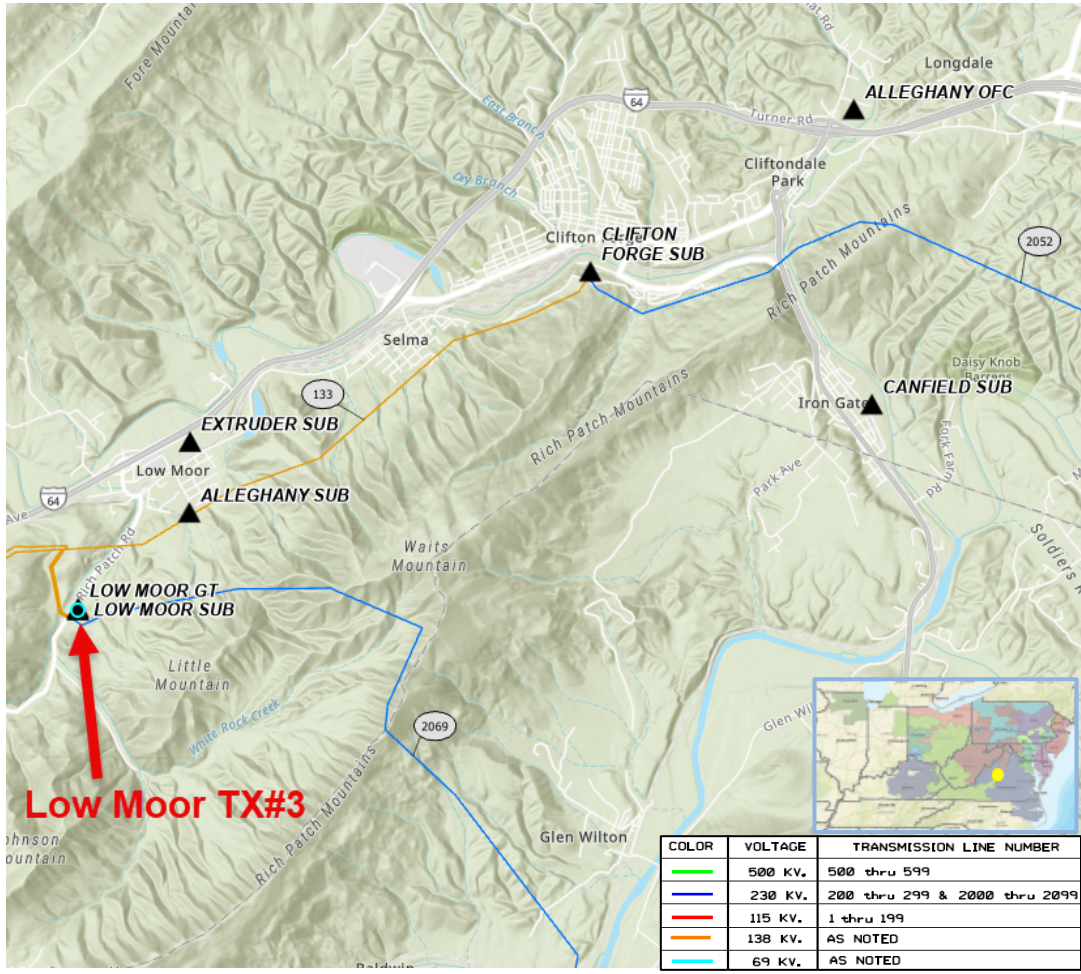
Specific Assumption References:

See details on Equipment Material Condition, Performance and Risk in Dominion's Planning Assumptions presented in December 2025.

Problem Statement:

Low Moor TX#3 is a 250MVA, 230/138/13.2kV transformer bank that was manufactured in 1996. This transformer bank has been identified for replacement based on the results of Dominion's transformer health assessment (THA) process. Detailed drivers include:

- Age (>30 years old).
- Reduced BIL ratings (2 levels below standard).
- Degraded Porcelain type bushings.
- Transformer is one of only three of this type in the Dominion fleet. The low voltage rating of 138kV and not 115kV is not typical for Dominion, spare transformers not immediately available.
- Mechanical design issue with the Conservator tank mounting
- Oil DGA indicates high CO and CO2 levels; low levels of Methane, Ethane, Ethylene, and Acetylene; potential break down of dielectric paper insulation on main current conductors inside the transformer.
- THA score less than 80.



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2026-0046

Process Stage: Need Meeting 12/01/2026

Project Driver: Customer Service

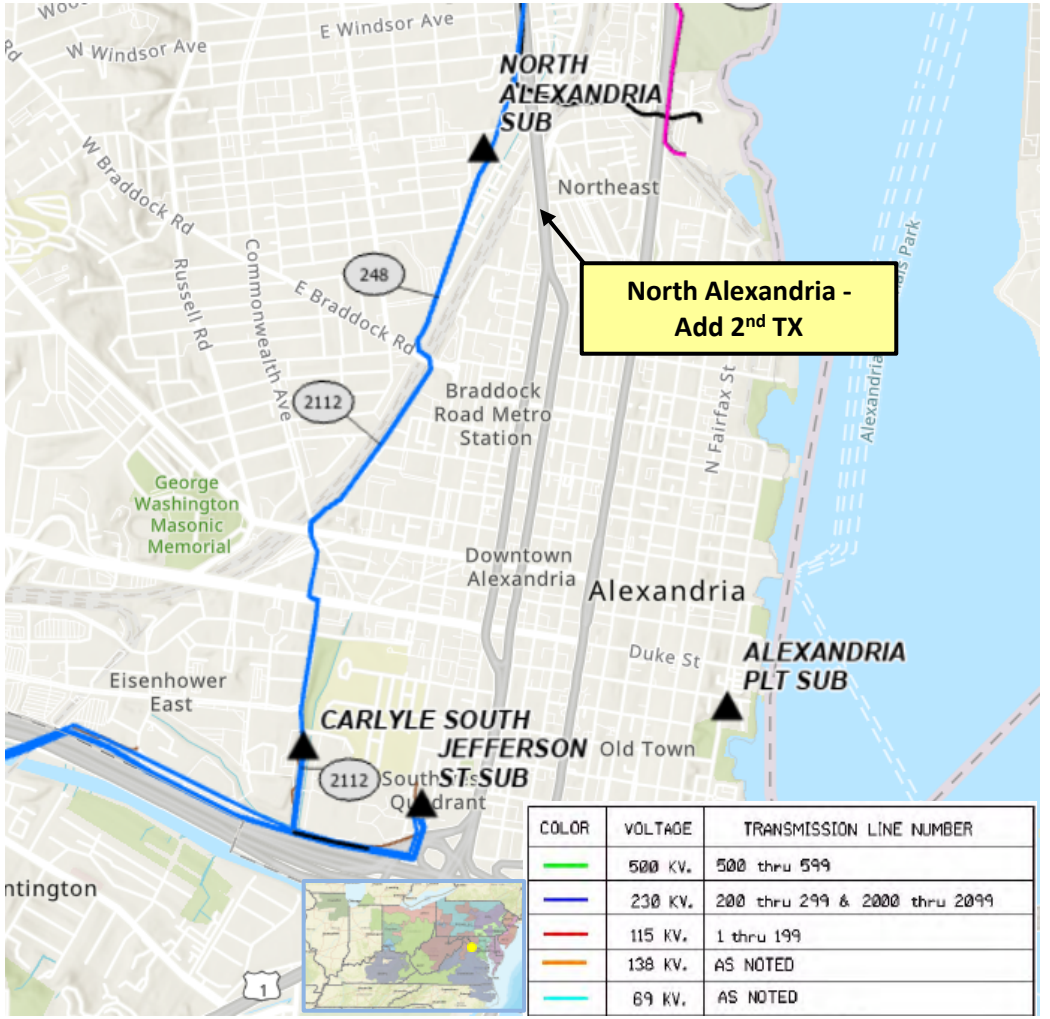
Specific Assumption References:

Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

Problem Statement:

DEV Distribution has submitted a DP request to install a second 230/34.5 kV distribution transformer at North Alexandria substation in Alexandria County, VA. This upgrade is required to address non-data center load growth in the area (includes redevelopment of Potomac Yard from rail/industrial to mixed use residential/commercial/academic) expected to exceed the capacity of the existing transformer. The substation has a total expected load of 41 MW.

Requested in-service date is 12/31/2027.



Supplemental
Scope / Cost Change

Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2020-0021 DNH

Process Stage: Solution Meeting 12/01/2026 (Update)

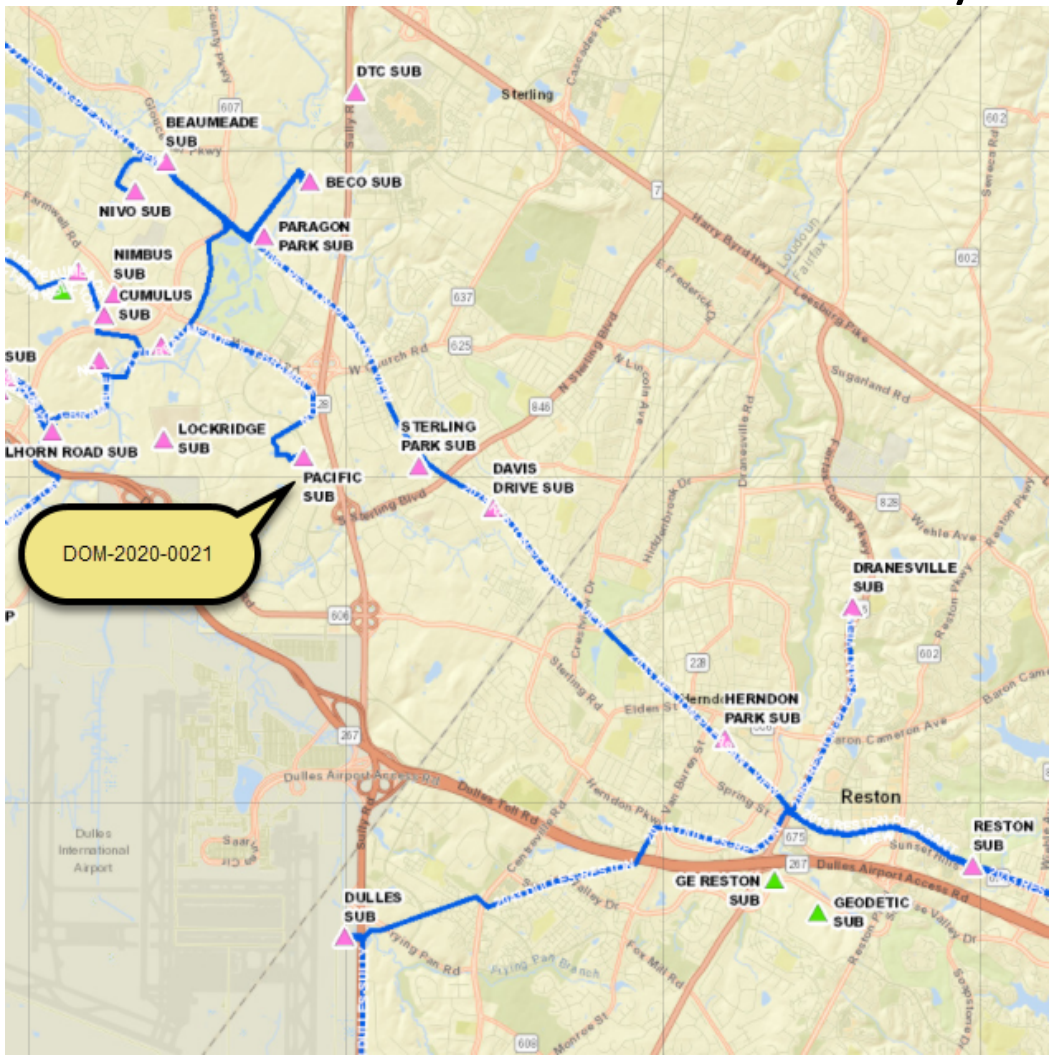
Previously presented: Solution Meeting 02/09/2021

Supplemental Project Driver: Do No Harm Analysis

Specific Assumption Reference:
Customer load request will be evaluated per Dominion's Facility Interconnections Requirements Document & Dominion's Transmission Planning Criteria.

Problem Statement:
PJM has identified a 300MW N-1-1 Load Drop violation for the loss of two lines.

The violation was caused by Supplemental Project DOM-2020-0021 in the Dominion Zone.



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2020-0021 DNH
Process Stage: Solution Meeting 12/01/2026 (Update)
Project Driver: Do No Harm

Proposed Solution:
(s2328.9) ~~Cut Line #2015 (Dulles-Reston) and extend a new 230kV double-circuit line approx. 3.5 miles to Global Plaza Substation, creating Line #2015 (Dulles to Global Plaza) and Line #9225 (Global Plaza to Reston).~~

Cut and Extend Line #2194 (Sterling Park – Davis Drive) for about 1.5 miles and terminate into Global Plaza Substation. At Global Plaza Substation, install the remaining two (2) breakers and any associated substation equipment required to build out the six-breaker ring ultimate arrangement.

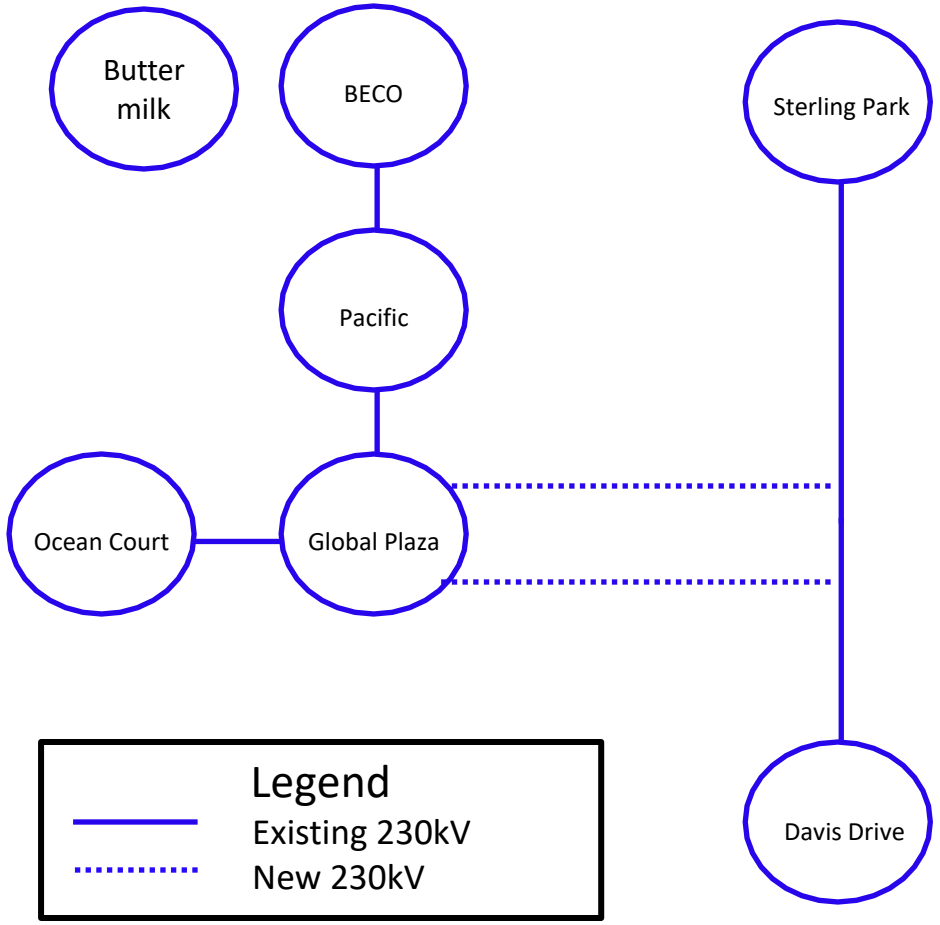
Alternatives Considered :
A shorter alternative route was considered, however it would pass through a residential area. The preferred alternative route avoids this and is routed through the sites of several future interconnection requests.

Estimated Cost: ~~$44~~ 70.4M (Total)
- Transmission Line ~~$39~~ 67M
- Substation $ ~~5~~ 3.4M

Projected In-service Date: ~~12/31/2025~~ 12/31/2029

Project Status: Engineering

Model: 2025 RTEP (for year 2030)



Appendix

High level M-3 Meeting Schedule

Assumptions

Activity	Timing
Posting of TO Assumptions Meeting information	20 days before Assumptions Meeting
Stakeholder comments	10 days after Assumptions Meeting

Needs

Activity	Timing
TOs and Stakeholders Post Needs Meeting slides	10 days before Needs Meeting
Stakeholder comments	10 days after Needs Meeting

Solutions

Activity	Timing
TOs and Stakeholders Post Solutions Meeting slides	10 days before Solutions Meeting
Stakeholder comments	10 days after Solutions Meeting

Submission of Supplemental Projects & Local Plan

Activity	Timing
Do No Harm (DNH) analysis for selected solution	Prior to posting selected solution
Post selected solution(s)	Following completion of DNH analysis
Stakeholder comments	10 days prior to Local Plan Submission for integration into RTEP
Local Plan submitted to PJM for integration into RTEP	Following review and consideration of comments received after posting of selected solutions

Revision History

11/20/2026 – V1 – Original version posted to pjm.com.