Dominion Supplemental Projects

Transmission Expansion Advisory Committee
May 8, 2026

Needs

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

Need Number: DOM-2026-0019

Process Stage: Need Meeting 05/08/2026

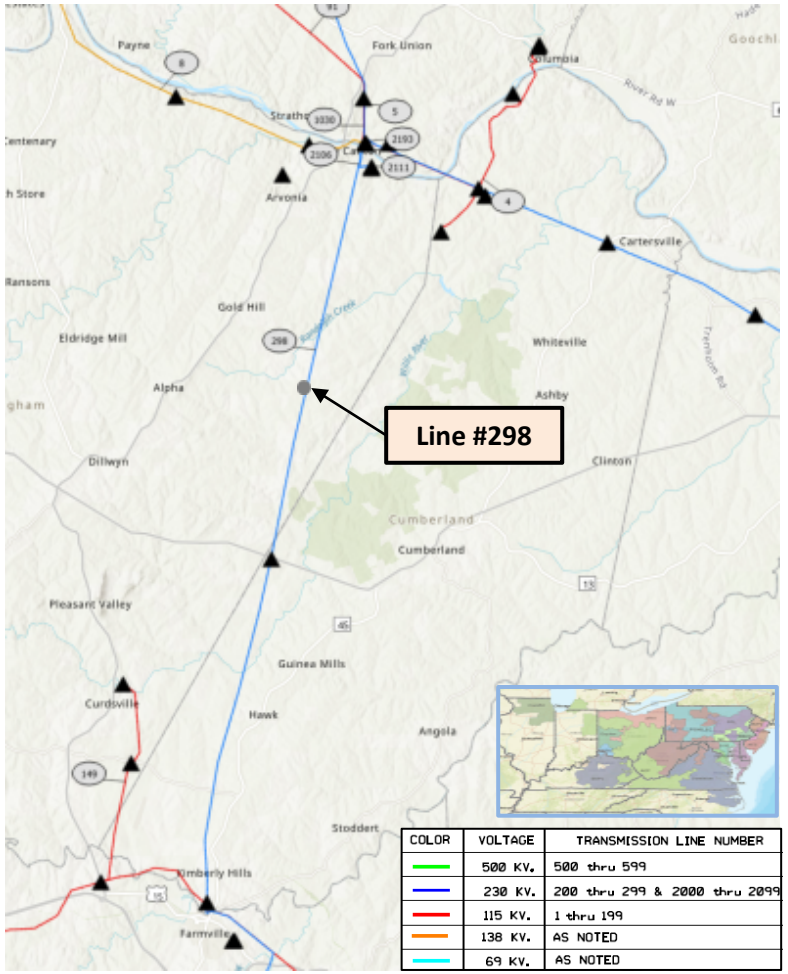
Project Driver: Equipment Material Condition, Performance Risk

Specific Assumption References:
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 230 concrete and wood H-frame structures on Line #298 (Bremo Sub - Farmville Sub) as part of the Company's End of Life criteria.

- The 28.2-mile transmission line, originally constructed in 1978 shows significant deterioration, including cracking and internal corrosion of the reinforcing steel in the concrete poles.
- Industry guidelines indicate equipment life for wood structures is 35 - 55 years, conductor and connectors 40 - 60 years, and porcelain insulators 50 years. This line needs to be rebuilt to current standards based on Dominion's End of Life Criteria.



Dominion Transmission Zone: Supplemental Operational Flexibility and Efficiency

Need Number: DOM-2026-0022

Process Stage: Need Meeting 05/08/2026

Project Driver: Operational Flexibility and Efficiency

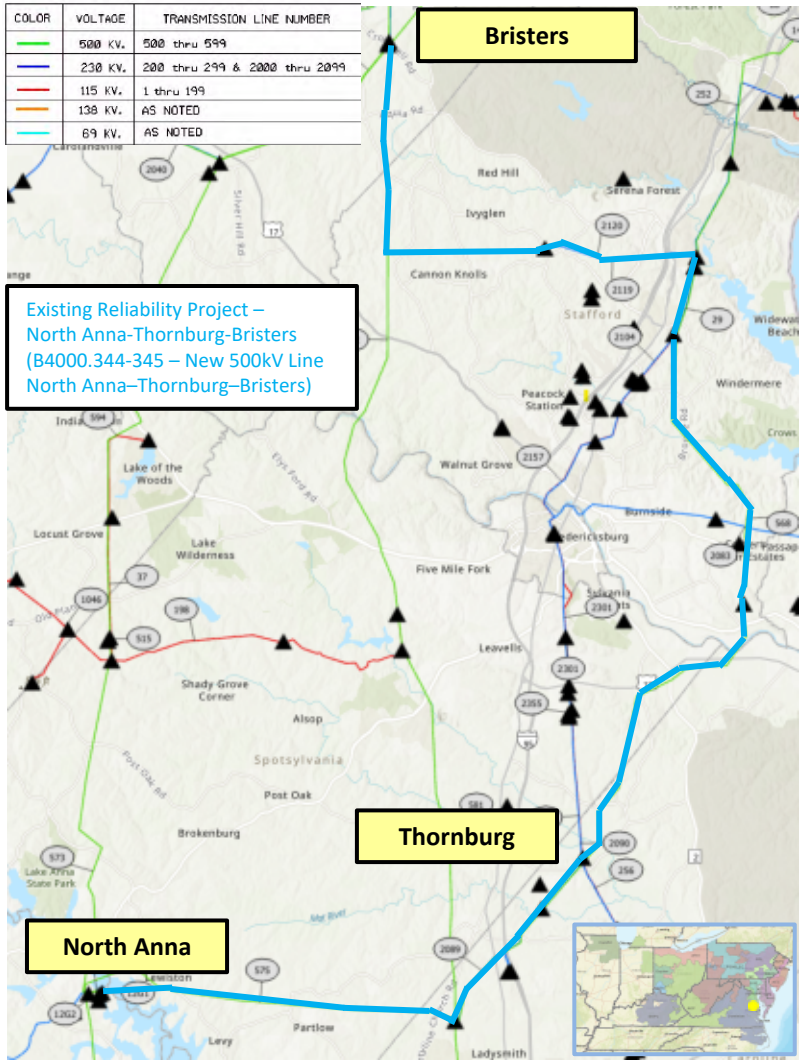
Specific Assumption References:

See details on Operational Flexibility and Efficiency in Dominion's Planning Assumptions presented in December 2025.

Problem Statement:

The North Anna to Thornburg to Bristers (formerly Kraken Loop) corridor is experiencing significant growth driven by large scale data center development. To date, at least ten new Delivery Point ("DP") requests to serve data center load in the corridor have been submitted, in addition to existing data center load in the vicinity from Elmont to Fredericksburg. These new DPs are currently in various stages of evaluation and development, with a total requested load approaching 3000 MW.

On the Dominion system, 500 kV transmission lines are reserved for bulk power transfers while 230 kV facilities (and below) are used to directly serve load. Additional facilities to accommodate load-serving needs and future reinforcements associated with the significant data center growth in the corridor will be required.



Solutions

Dominion Transmission Zone M-3 Process Line #209 and Line #58 Partial Rebuild

Need Number: DOM-2021-0006 Update

Process Stage: Solution Meeting Update 05/08/2026

Previous Stages:

Need – 03/09/2021
Solution – 06/08/2021
Submission of Supplemental Project for Inclusion in the Local Plan – 11/12/2021

Project Driver:

Equipment Material Condition, Performance, and Risk

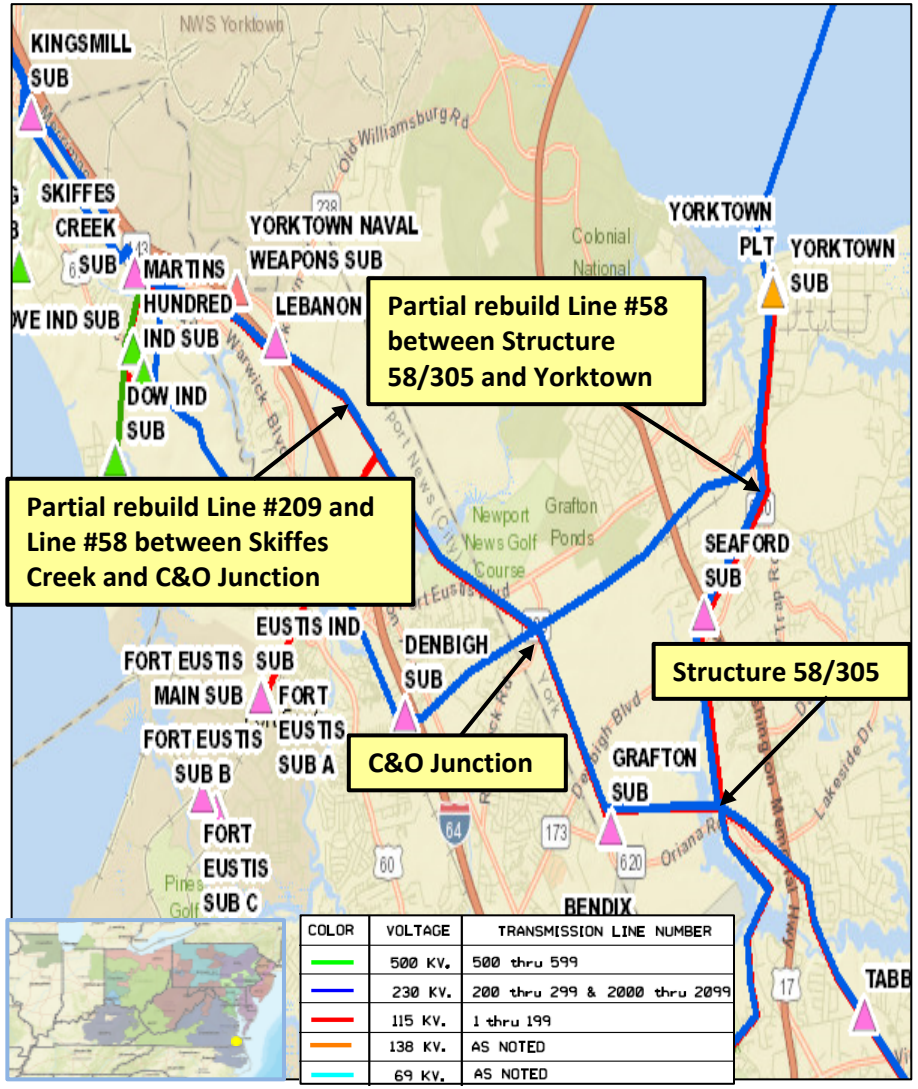
Specific Assumption Reference:

See details on Equipment Material Condition, Performance and Risk in Dominion's Planning Assumptions presented in December 2020.

Problem Statement:

Dominion Energy has identified a need to replace 52 double-circuit wood pole structures from Skiffes Creek to C&O Junction of Line #209 (Skiffes Creek-Yorktown) and Line #58 (Skiffes Creek-Yorktown), and 47 single-circuit wood pole structures from Structure 58/305 to Yorktown of Line #58 based on the Company's End of Life criteria.

- The 6.2 miles segment from Skiffes Creek-C&O Junction of Line #209 and Line #58, and the 4.5 miles segment from Structure 58/305-Yorktown of Line #58 were constructed on wood H-frame structures in 1952 and includes ACSR conductor and 3#8 static. These structures are at the end of their useful life.
- Industry guidelines indicate equipment life for wood structures is 35-55 years, conductor and connectors are 40-60 years, and porcelain insulators are 50 years.
- Line #209 and Line #58 provide service to Lebanon substation with approximately 46.6MW of load.



Dominion Transmission Zone M-3 Process
Line #209 and Line #58 Partial Rebuild

Need Number: DOM-2021-0006 Update

Process Stage: Solution Meeting Update 05/08/2026

Previous Stage: Submission of Supplemental Project for Inclusion in the Local Plan – 11/12/2021

Selected Solution:

Rebuild approximately 6.2 miles double circuit segment of Line #209 and Line #58 between Skiffes Creek and C&O Junction to current standards. The normal summer rating of this segment of Line #209 and Line #58 will be ~~1047MVA~~ 1573 MVA and ~~262MVA~~ 393 MVA, respectively.

Rebuild approximately 4.5 miles single circuit segment of Line #58 to current 115kV standards. The normal summer rating of the line segment will be 262MVA.

Current standards of 2026 are different than in 2021. Lines 209/58 will be rebuilt with 230 kV DC monopoles (instead of H-frames). Additional permanent ROW (0.4 acres) is necessary to maintain non-curtailable service to the US Government. Rising material, labor, and construction costs have contributed to increased ET project costs over recent years.

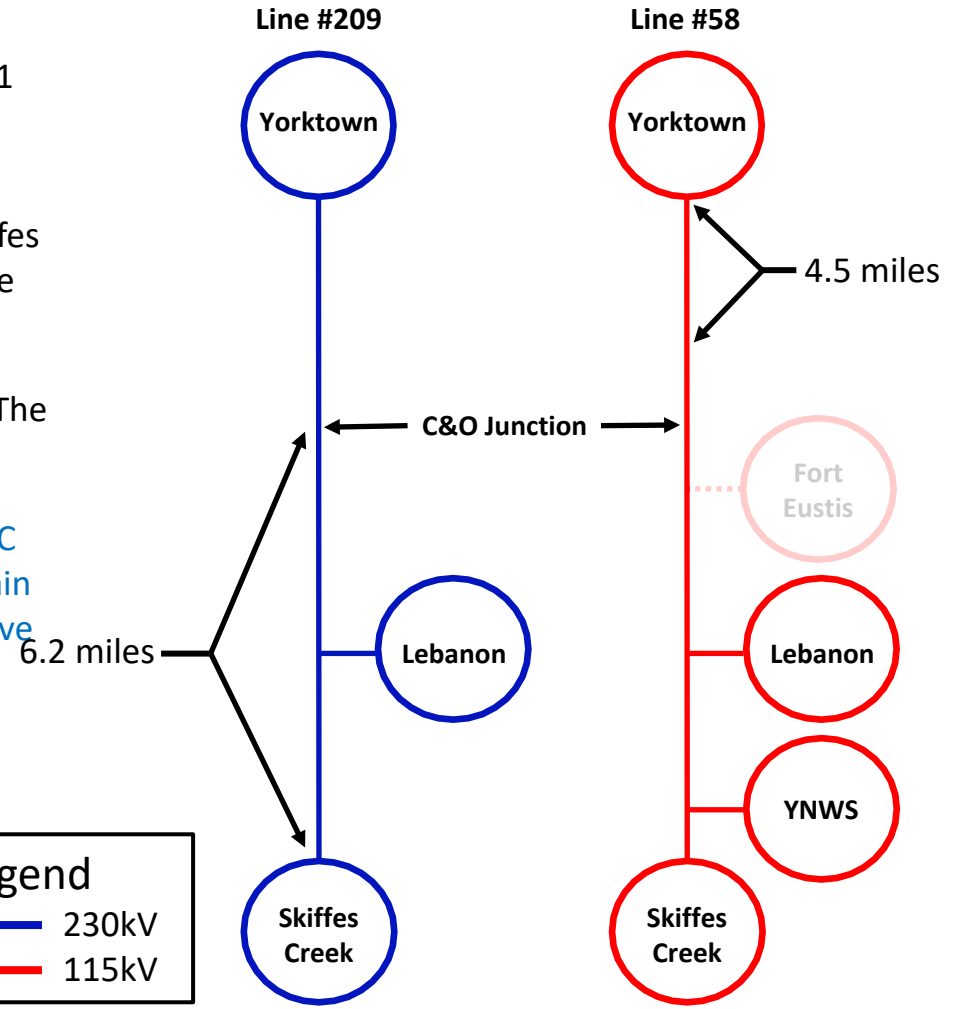
Estimated Cost: ~~$19.5M~~ $66.89M (Substation $3.48M; T-Line $63.41M)

Projected In-Service: ~~12/31/2025~~ 05/30/2029

Supplemental Project ID: s2623

Project Status: Engineering

Model: 2025 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2024-0049

Process Stage: Solution Meeting 05/08/2026

Previously Presented: Need Meeting 07/09/2024

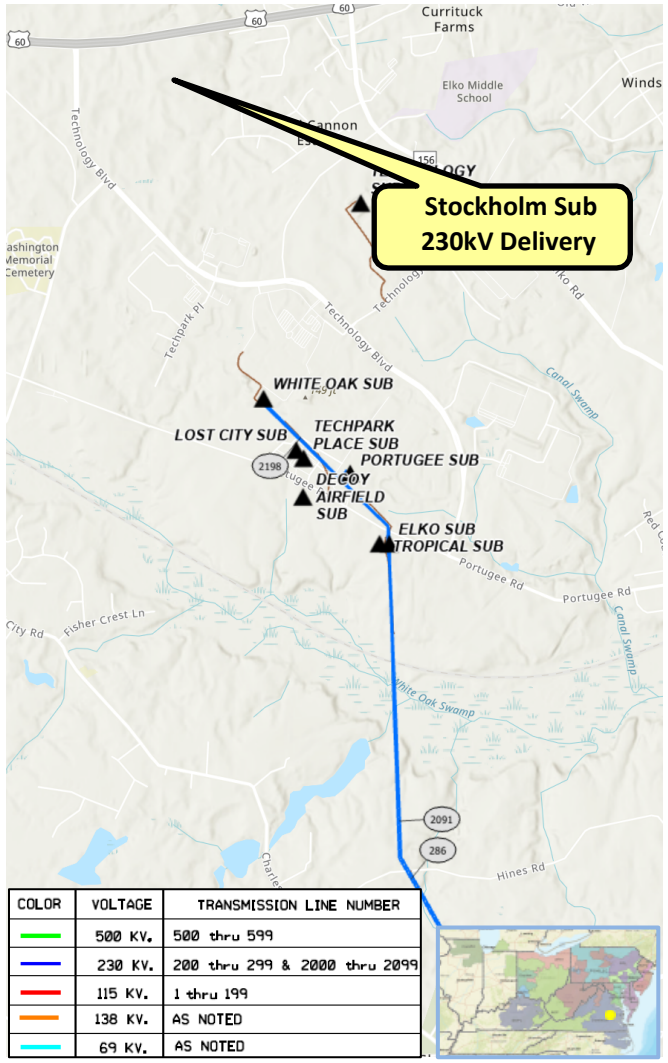
Project Driver: Customer Service

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 for a new substation (Stockholm) to serve a data center in Henrico County with a total load of 300 MW. The target date is Q4 2028.



Dominion Transmission Zone: Supplemental Stockholm 230kV Delivery - DEV

Need Number: DOM-2024-0049

Process Stage: Solution Meeting 05/08/2026

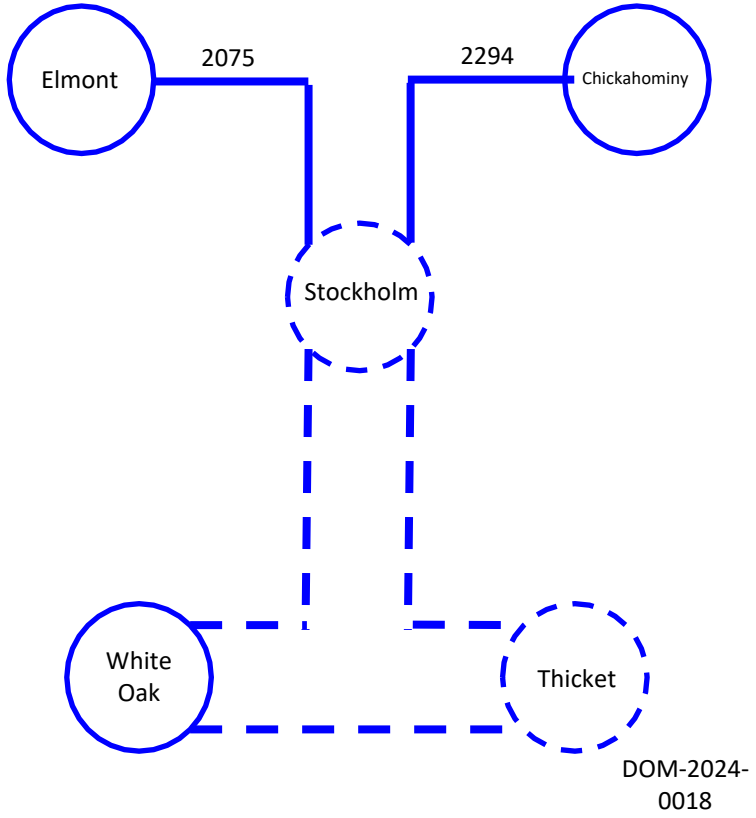
Project Driver: Customer Service

Proposed Solution:

Approved project DOM-2022-0038 DNH cuts existing 230kV Line 2075 (Elmont to Chickahominy) in and out of White Oak creating Line 2075 (Elmont to White Oak) and Line 2294 (Chickahominy to White Oak).

Approved project DOM-2024-0018 will cut future 230kV Line 2294 (Chickahominy to White Oak) in and out of proposed Thicket Substation.

Proposed Stockholm Substation will cut future Line 2075 and Line 2294, and the lines will terminate in a 230kV six breaker ring bus arrangement. The station will also include a 75 MVAR cap bank.



Estimated Project Cost: $ 26M (Total)

Transmission Line – $6M

230kV Substation – $20M

Alternatives Considered: None, new station is adjacent to existing and future transmission lines

Projected In-service Date: Q4 2028

Project Status: Conceptual

Model: 2029 RTEP

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

04/28/2026 – V1 – Original version posted to pjm.com