SRRTEP Committee Southern
Dominion Supplemental Projects

March 18, 2026

Needs

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2026-0012
Process Stage: Need Meeting 03/18/2026
Project Driver: Customer Service

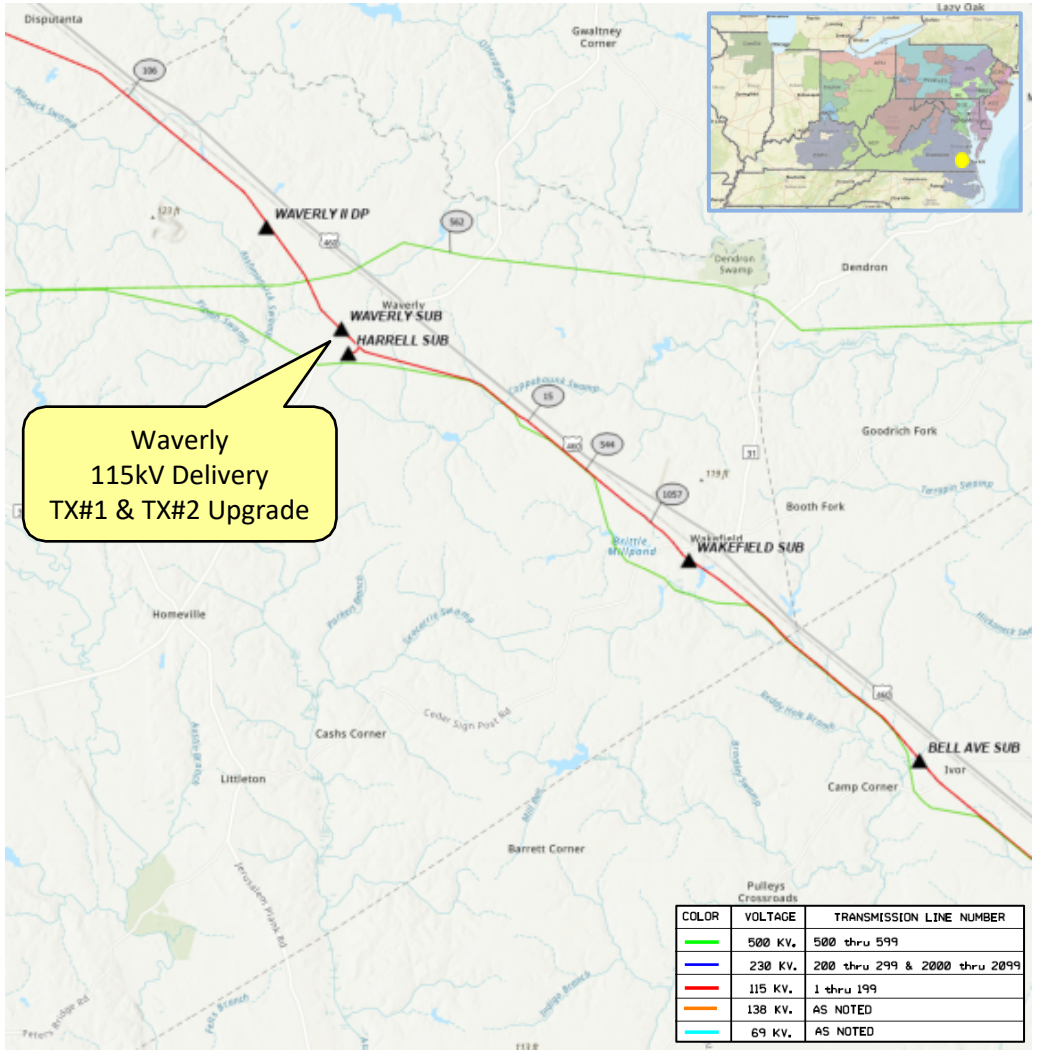
Specific Assumption References:
Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

Problem Statement:
DEV Distribution has submitted a Delivery Point (DP) request to replace existing TX #1 and TX#2 at Waverly Substation in Sussex County, VA.

The driver is part of the GTP Phase IV Substation Technology Deployment, which intends to upgrade outdated substation technology to proactively prepare for advanced grid technology such as DERs, EVs, battery storage. The existing transformers were manufactured in 1950 and 1960 and have high THA risk.

Requested in-service date is 12/31/2029.

Initial In-Service Load (TX #1+TX #2)	10-year Projected Load
Summer: 7.4 MW	Summer: 8.2 MW
Winter: 11.0 MW	Winter: 12.0 MW



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2026-0014
Process Stage: Need Meeting 03/18/2026
Project Driver: Customer Service

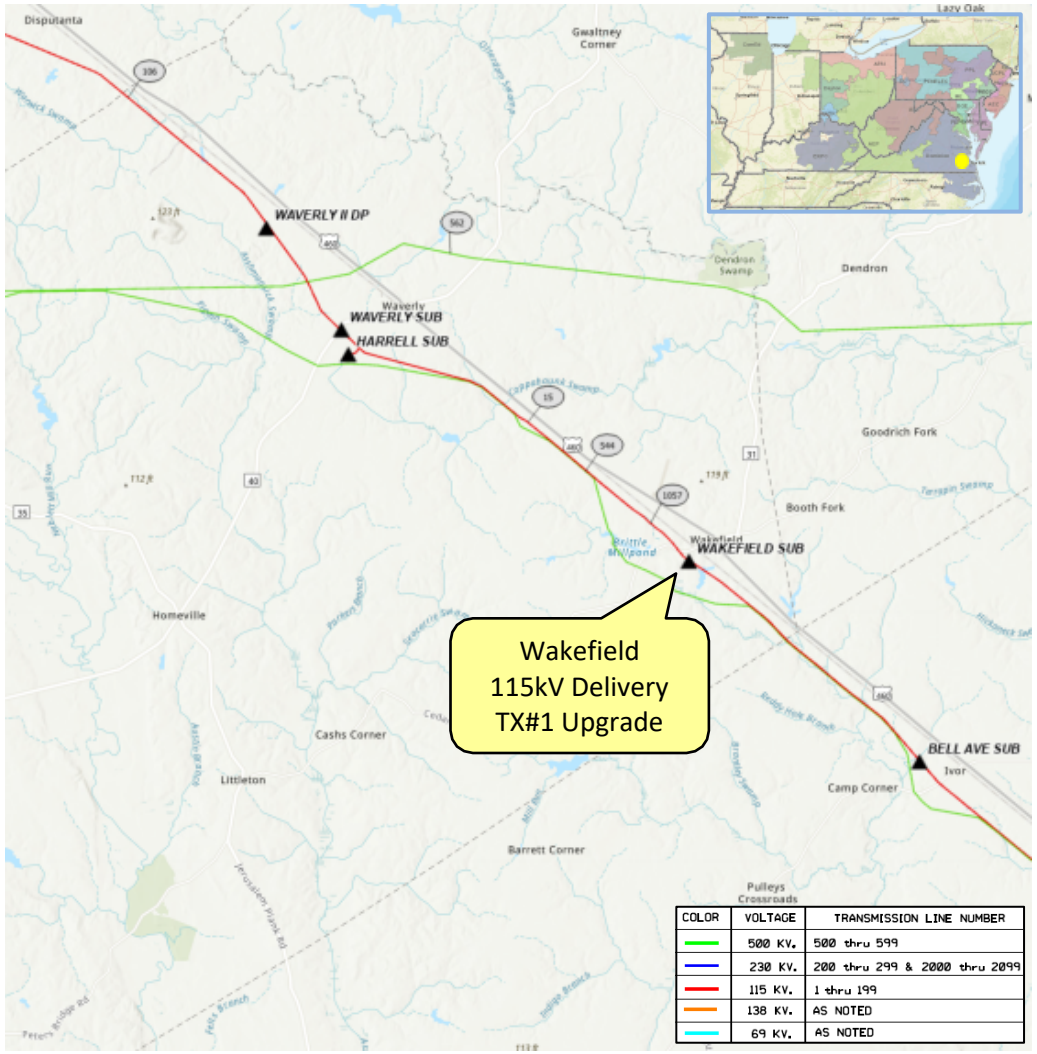
Specific Assumption References:
Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

Problem Statement:
DEV Distribution has submitted a Delivery Point (DP) request to replace existing TX #1 at Wakefield Substation in Sussex County, VA.

The driver is part of the GTP Phase IV Substation Technology Deployment, which intends to upgrade outdated substation technology to proactively prepare for advanced grid technology such as DERs, EVs, battery storage. The existing transformer was manufactured in 1955 and has high THA risk.

Requested in-service date is 12/31/2028.

Initial In-Service Load (TX #1+TX #2)	10-year Projected Load
Summer: 12.9 MW	Summer: 14.3 MW
Winter: 17.3 MW	Winter: 19.0 MW



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

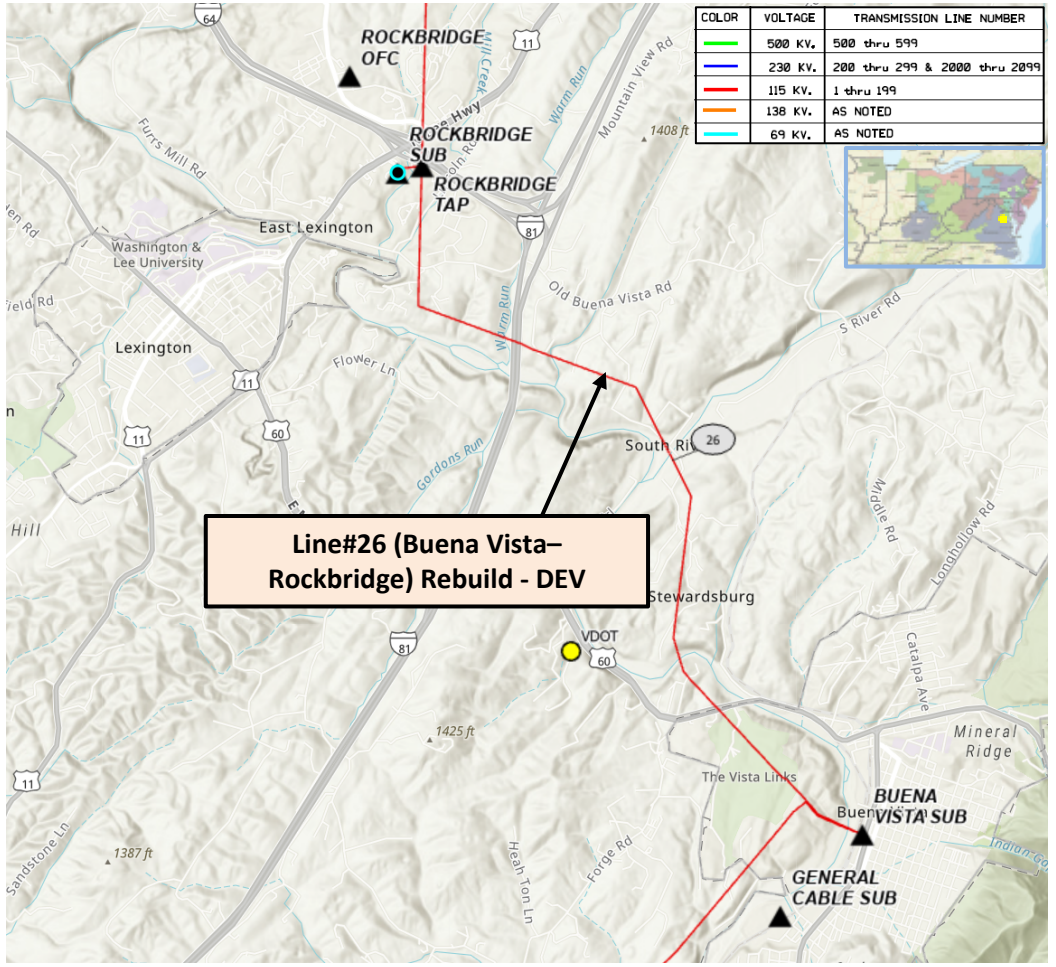
Need Number: DOM-2025-0091
Process Stage: Need Meeting 03/18/2026
Project Driver: Equipment Material Condition, Performance Risk

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 approximately 6.36 miles of 115kV Line #26 (Buena Vista to Rockbridge) to new 115kV standard based on the Company's End of Life criteria.

- Line #26 extends 21.75 miles from Lexington to Balcony Falls. The 6.36-mile single circuit segment of line #26 between Rockbridge and Buena Vista are wood H-frame structures which are approaching the end of their useful service life. Over 20% of the structures have been replaced due to woodpecker damage, rot, or other structural deficiencies.
- 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.



Solutions

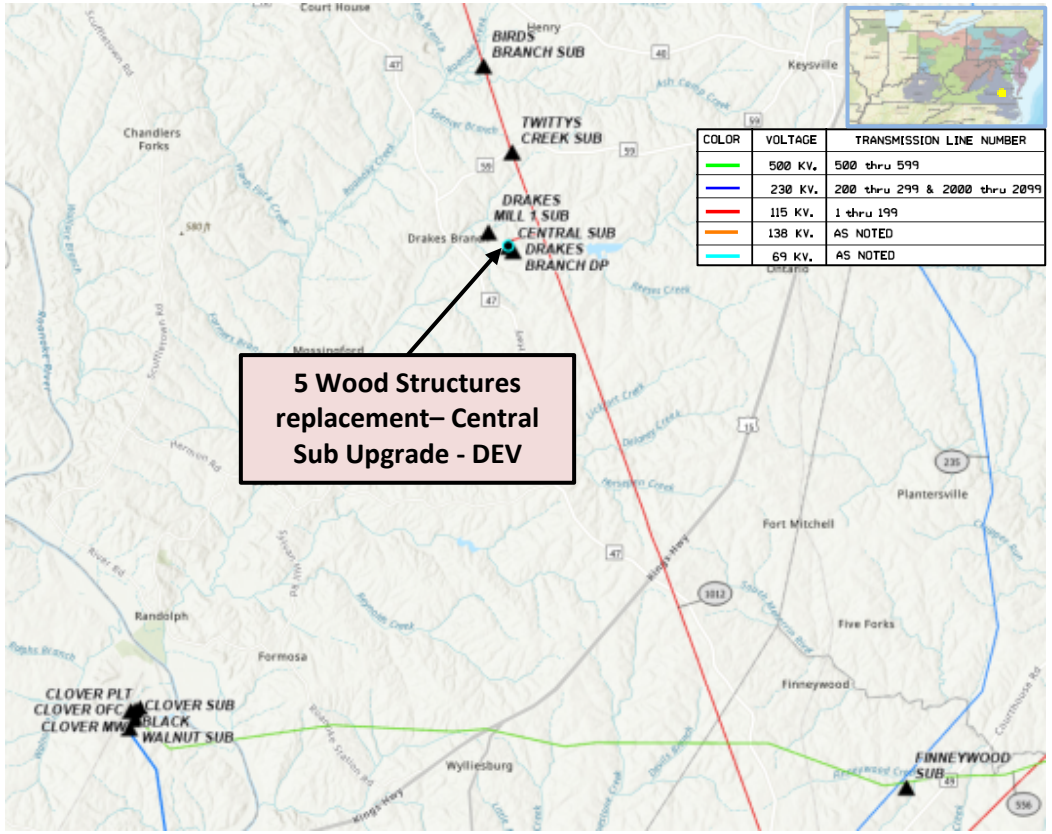
Dominion Transmission Zone: Supplemental Equipment Material Condition, Performance and Risk

Need Number: DOM-2025-0085
Process Stage: Solution Meeting 03/18/2026
Previously Presented: Need Meeting 12/11/2025
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 5 wood pole switch structures and backbones of 115kV Line #1012 (Central Substation Tap) to new 115kV standard based on the Company's End of Life criteria.

- Wood pole switch structures and backbones 1012/909A, 1012/910A, 1012/910B, 1012/910, 1012/909 were installed in 1949. These poles are experiencing significant structural issues as they age.
- Industry guidelines indicate equipment life for steel structures is 40-60 years, wood structures is 35-55 years, conductor and connectors are 40-60 years, and porcelain insulators are 50 years.

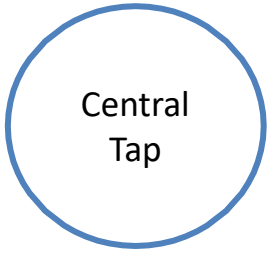


Dominion Transmission Zone: Supplemental Equipment Material Condition, Performance and Risk

Need Number: DOM-2025-0085
Process Stage: Solution Meeting 03/18/2026
Previously Presented: Need Meeting 12/11/2025
Project Driver: Equipment Material Condition, Performance Risk

Proposed Solution:

Wreck and rebuild the structures 1012/909A, 1012/910A, 1012/910B, 1012/910 and switch structure 1012/909 to current 115 kV standards and replace the conductor using a minimum summer normal rating of 175.9 MVA. Replace the ground switch with a 2000A switch, and circuit switcher with a 1200A switcher. Substation expansion will be required.



Estimated Project Cost: $4M ($1M T-line, $3M Sub)

Alternative Considered: No feasible alternatives. The scope of work is occurring at an existing substation.

Expected in-service date: 12/31/2029

Project Status: Engineering

Model: 2029 RTEP

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0090
Process Stage: Solution Meeting 03/18/2026
Previously Presented: Need Meeting 12/11/2025
Project Driver: Customer Service

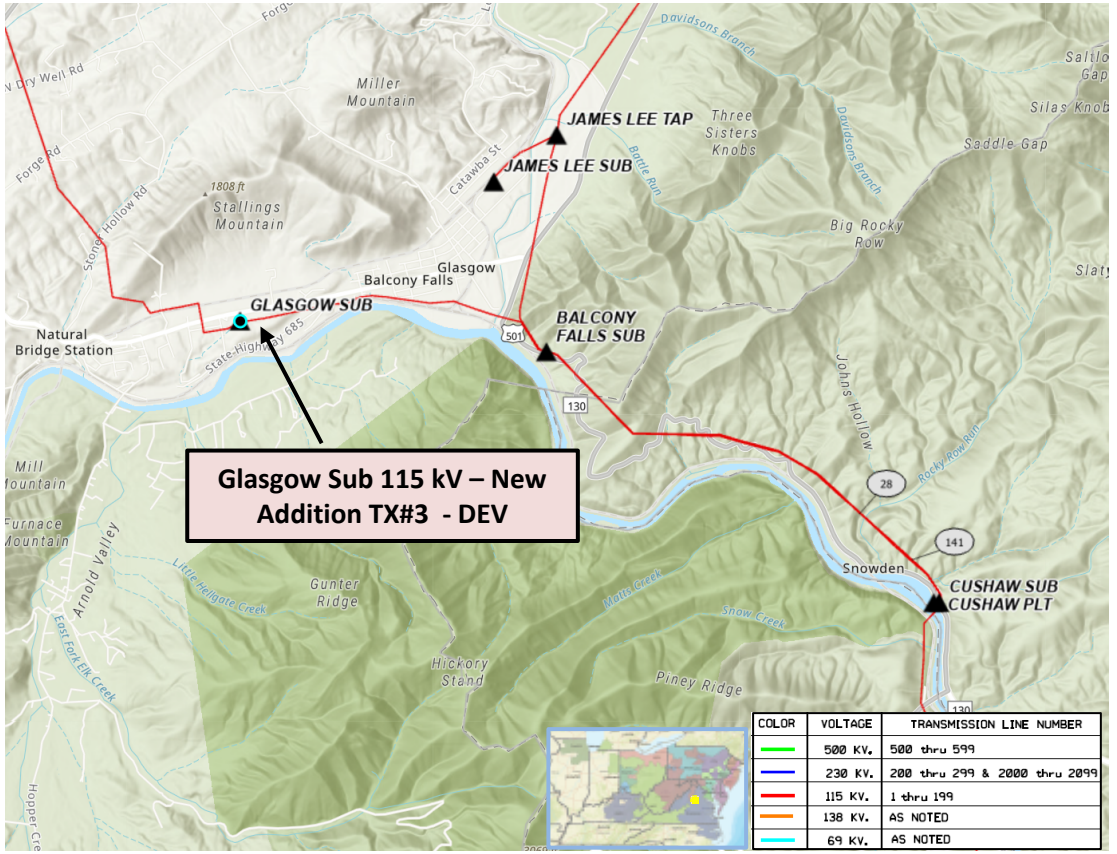
Specific Assumption References:

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 new transformer Tx #3, 22.4 MVA 115kV/13.2 kV at Glasgow substation in Rockbridge County, VA. The driver is a Grid Transformation Project to eliminate a risk of 12.5kV voltage island of distribution circuits from potential loss of Tx #2.

In-service Station Load - 2025	Projected Load- 2034
Summer:16 MW	Summer: 17MW
Winter: 22 MW	Winter: 25MW



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0090
Process Stage: Solution Meeting 03/18/2026
Previously Presented: Need Meeting 12/11/2025
Project Driver: Customer Service

Proposed Solution:
Install a 1200 Amp, 25 kAIC circuit switcher and associated equipment (center break switch, bus work, relaying, etc) on the 115kV high side of the new transformer at Glasgow Substation.

Estimated Project Cost: $0.55M

Alternative Considered: No feasible alternatives. The scope of work is occurring at an existing substation.

Expected in-service date: 05/01/2027

Project Status: Engineering

Model: 2029 RTEP

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0093
Process Stage: Solution Meeting 03/18/2026
Previously Presented: Need Meeting 12/11/2025
Project Driver: Customer Service

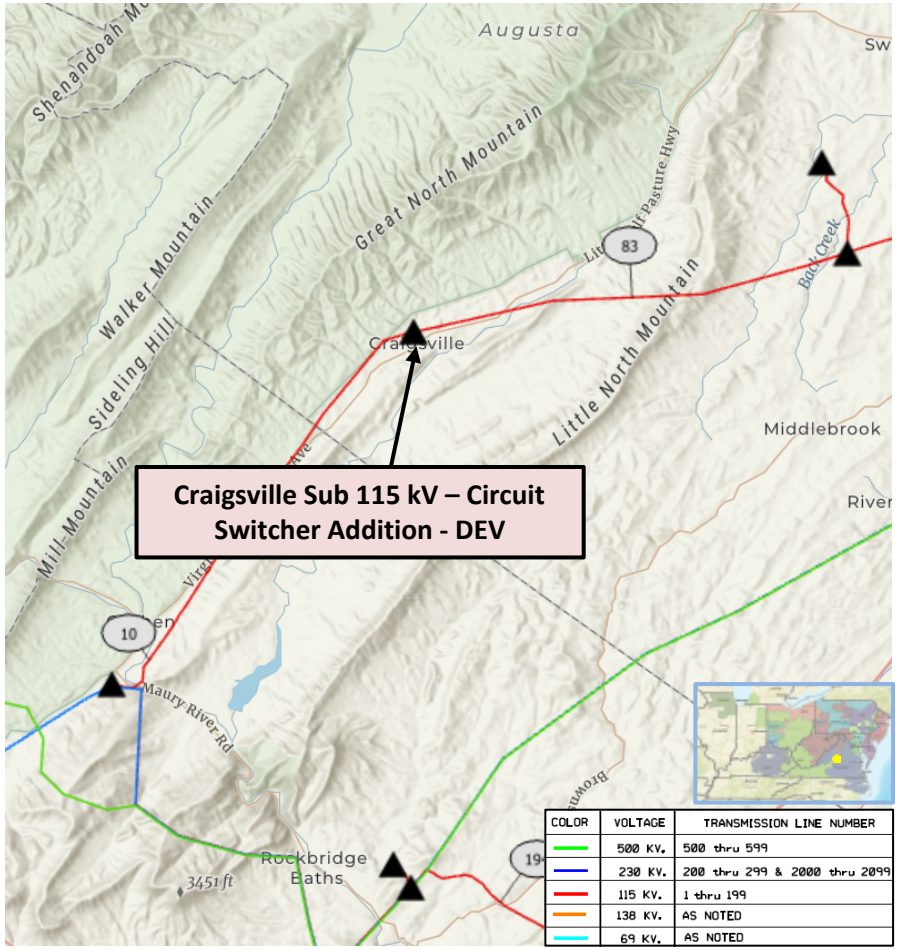
Specific Assumption References:

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 delivery point (DP) request to replace the fuse with circuit switcher at Craigsville Substation in Augusta County, VA. The reason for the upgrade is GTP Phase IV Substation Technology Deployment which will enable real-time monitoring and control, advanced protection, automation, control, and power quality monitoring.

Expected in-service date is 12/31/2029.



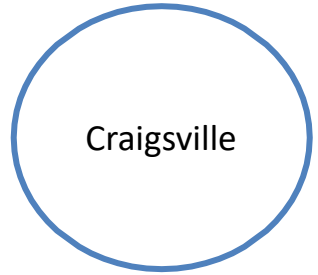
Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0093
Process Stage: Solution Meeting 03/18/2026
Previously Presented: Need Meeting 12/11/2025
Project Driver: Customer Service

Proposed Solution:
Replace the fuse and the switch on the high side of TX#1, with a 1200 A circuit switcher and 2000 A switch at the Craigsville substation.

Estimated Project Cost: $0.84M

Alternative Considered: No other feasible alternatives. The protection scheme at this location is being upgraded to Dominion's current substation standard to comply with GTP Phase IV substation Technology Deployment.



Expected in-service date: 12/31/2029
Project Status: Conceptual
Model: 2029 RTEP

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0038
Process Stage: Solution Meeting 3/18/2025
Previously Presented: Need Meeting 09/18/2025
Project Driver: Customer Service

Specific Assumption References:

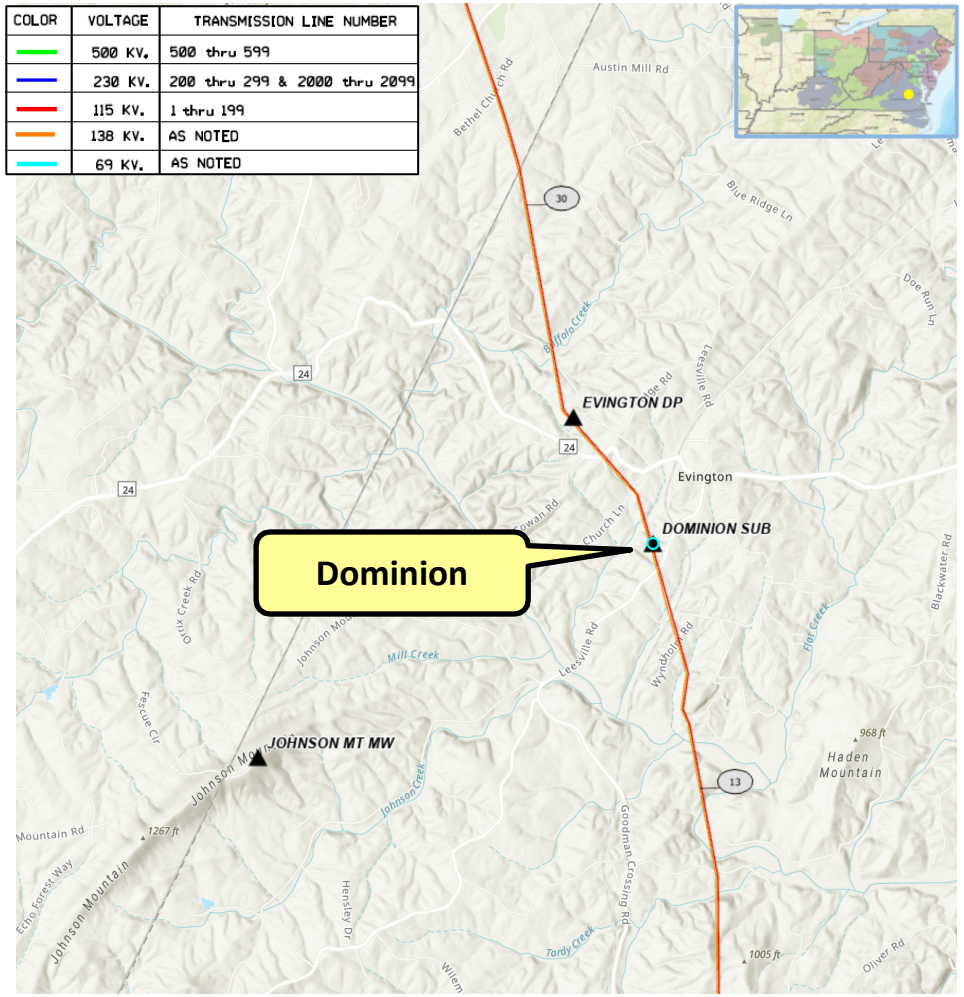
Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

Problem Statement:

Dominion Energy Distribution has submitted a Delivery Point (DP) Request for the installation of a second 115/36.5 kV, 22.4 MVA Delta-Wye connected TX at Dominion substation with a target energization date of 12/31/2026.

The driver for the DP request is that the existing Dominion TX#1 is a 115/36.5 kV 22.4 MVA unit serving roughly 1400 customers and this substation transformer is a voltage island for most of the year due to weak circuit ties. For the failure of this transformer, most customers during peak load conditions are subject to an extended outage, 18 to 24 hours, until mobile transformation can be installed to restore service.

Initial In-Service Load	Projected 2030 Load
Summer: 11.6 MW Winter: 13.2 MW	Summer: 14.2 MW Winter: 16.1 MW



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0038
Process Stage: Solution Meeting 3/18/2025
Previously Presented: Need Meeting 09/18/2025
Project Driver: Customer Service

Proposed Solution:
Install a 1200A, 25kAIC, 115kV circuit switcher and a 2000A switch on the high side of the transformer. Install any transmission related equipment (wave trap, etc.) to support the installation of the new transformer.

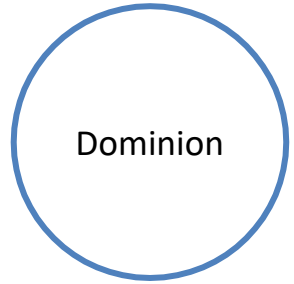
Estimated Project Cost: $0.5M

Alternative Considered: No feasible alternatives. The scope of work is occurring at an existing substation.

Expected in-service date: 12/31/2026

Project Status: Planning

Model: 2030 RTEP



Questions?

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

03/06/2026 – V1 – Original version posted to pjm.com.