

SRRTEP Committee Southern Dominion Supplemental Projects

May 14, 2026

Solutions

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0022

Process Stage: Solution Meeting 05/14/2026

Previously Presented: Need Meeting 9/18/2025

Project Driver: Customer Service

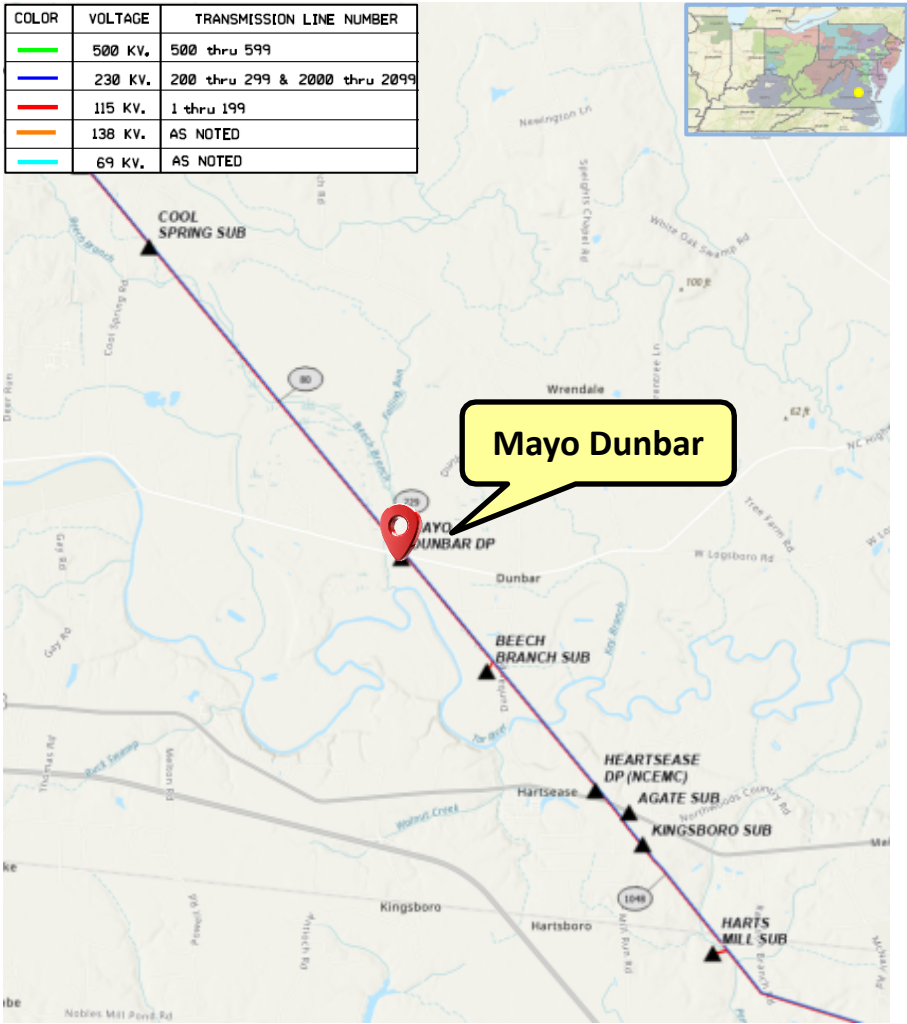
Specific Assumption References:

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

Problem Statement:

Edgecombe Martin County Electric Membership Corporation (EMC-EMC) has submitted a delivery point modification to move Mayo Dunbar DP station to the adjacent lot for flood mitigation. Mayo Dunbar DP is served by a tap on the 115kV Line #80. EMC-EMC would like to move the 115kV tap location one span over on Line #80 to alleviate interference with new station exit feeders.

Initial In-Service Load	Projected 2030 Load
Summer: 7.6 MW Winter: 7.9 MW	Summer: 8.2 MW Winter: 9.2 MW



Dominion Transmission Zone: Supplemental 115 kV Mayo Dunbar DP Modification – EMC-EMC

Need Number: DOM-2025-0022

Process Stage: Solution Meeting 05/14/2026

Previously Presented: Need Meeting 9/18/2025

Project Driver: Customer Service

Estimated Project Cost: \$1.9M

Proposed Solution: Build a T-tap on the 115kV Line #80 (Beech Branch – Cool Springs near structures #80/71 and #80/72. Install a switch on the Mayo Dunbar tap. The existing switches 8026 and 8029 are sufficient and remain unchanged. Customer is responsible for the cost associated with moving the tap.



Alternatives Considered: No available alternatives

Project In-service Date: 5/31/2026

Project Status: Construction

Model: 2029 RTEP

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0080

Process Stage: Solution Meeting 05/14/2026

Previously Presented: Need Meeting 10/16/2025

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:

LS GreenLink USA is building a \$618M subsea cable manufacturing facility at the Deep Water Terminal Site in Chesapeake, VA, and requests 12 MW of load to be delivered in Q3 2027 with an ultimate buildout requiring 18 MW in 2033.

DEV Distribution has submitted a delivery point request to upgrade currently installed TX#2 (with 33.6 MVA rating) at Cradock Substation to 56 MVA and extend a new distribution circuit. The two existing TXs are not sufficient to provide the required redundancy to serve the entire load.

Requested in-service date is 04/30/2027.

Initial In-Service Load (TX#1+TX#2)	10-year Projected Load
Summer: 50.6 MW	Summer: 71.4 MW
Winter: 50.5 MW	Winter: 65.8 MW



Dominion Transmission Zone: Supplemental Cradock – 115kV Delivery – Upgrade TX#2 - DEV

Need Number: DOM-2025-0080

Process Stage: Solution Meeting 05/14/2026

Previously Presented: Need Meeting 10/16/2025

Project Driver: Customer Service

Proposed Solution:

- DP Request triggers transmission project to meet current substation engineering standards for high-side protection of distribution TXs
- Replace existing 1200A high-side switch H234 to 2000A MOAB switch

Estimated Project Cost: \$0.33M (Substation only)

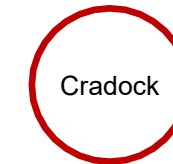
Alternatives Considered:

- No feasible alternatives.

Projected In-Service Date: 04/30/2027

Project Status: Engineering

Model: 2029 RTEP



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

Need Number: DOM-2025-0091

Process Stage: Solution Meeting 05/14/2026

Previously Presented: Need Meeting 03/18/2026

Project Driver: Equipment Material Condition, Performance Risk

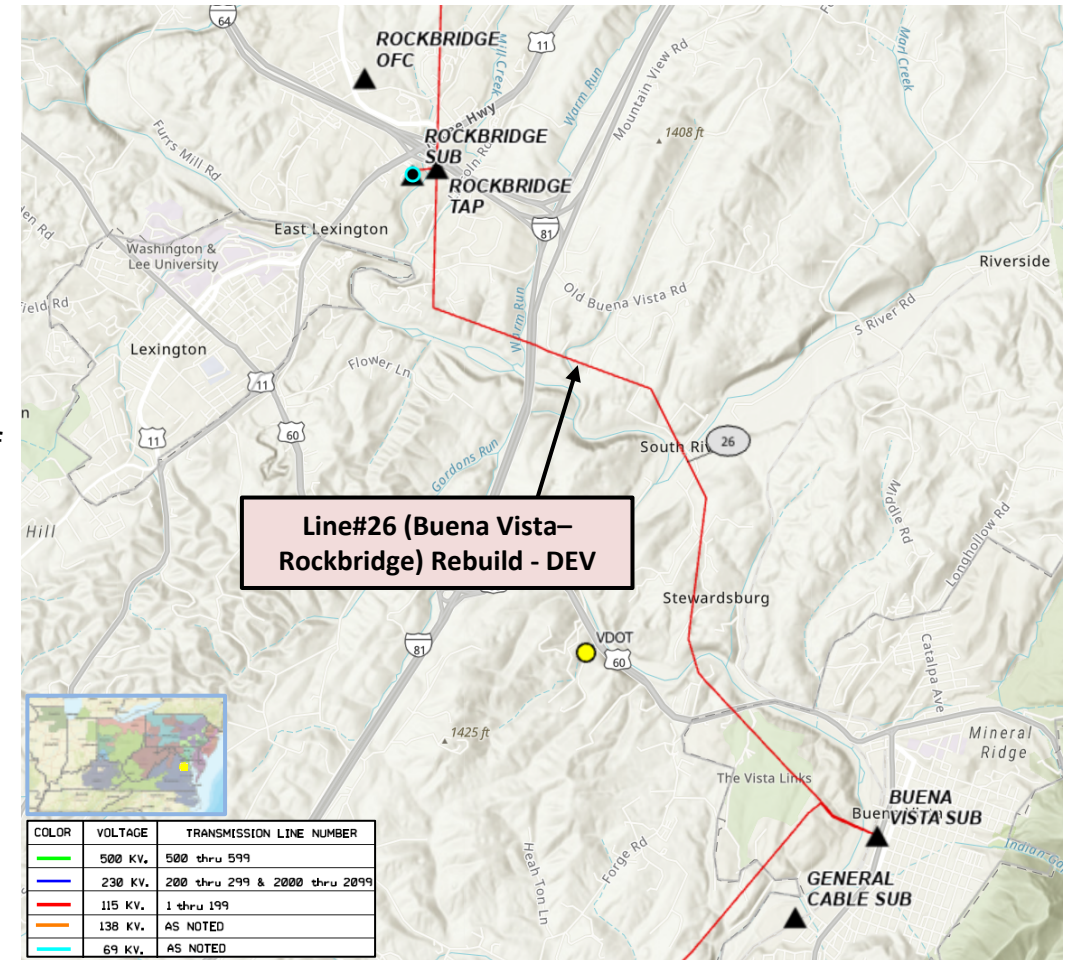
Specific Assumption References:

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.



Dominion Transmission Zone: Supplemental 115 kV Line #26 (Buena Vista-Rockbridge) EOL Rebuild

Need Number: DOM-2025-0091

Process Stage: Solution Meeting 05/14/2026

Previously Presented: Need Meeting 03/18/2026

Project Driver: Equipment Material Condition, Performance Risk

Proposed Solution:

Rebuild approximately 6.36 miles single circuit of line#26 between Rockbridge to Buena Vista substation to current 115kV standards with a minimum summer rating of 393 MVA. Replace the line Switch with 2000A switch and associated equipment to current 115kV standards.

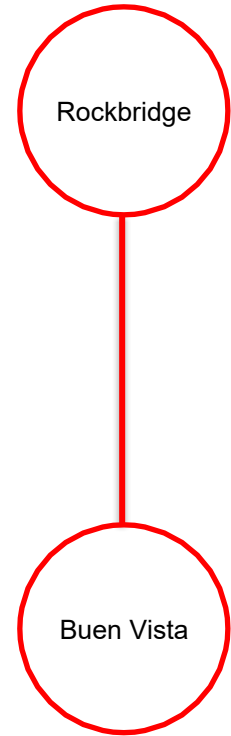
Estimated Project Cost: \$15M

Alternative Considered: No feasible alternatives.

Expected in-service date: 12/31/2027

Project Status: Engineering

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

05/04/2026 – V1 – Original version posted to pjm.com.

5/11/2026 – V2 – Typo corrected to label “Solution” transition slide