

Dominion Supplemental Projects

Transmission Expansion Advisory
Committee
November 3, 2026

Cancellations

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2023-0024 (Canceled)

Process Stage: Cancellation Meeting 11/03/2026

Previously Presented: Need Meeting 03/07/2023

Project Driver: Customer Service

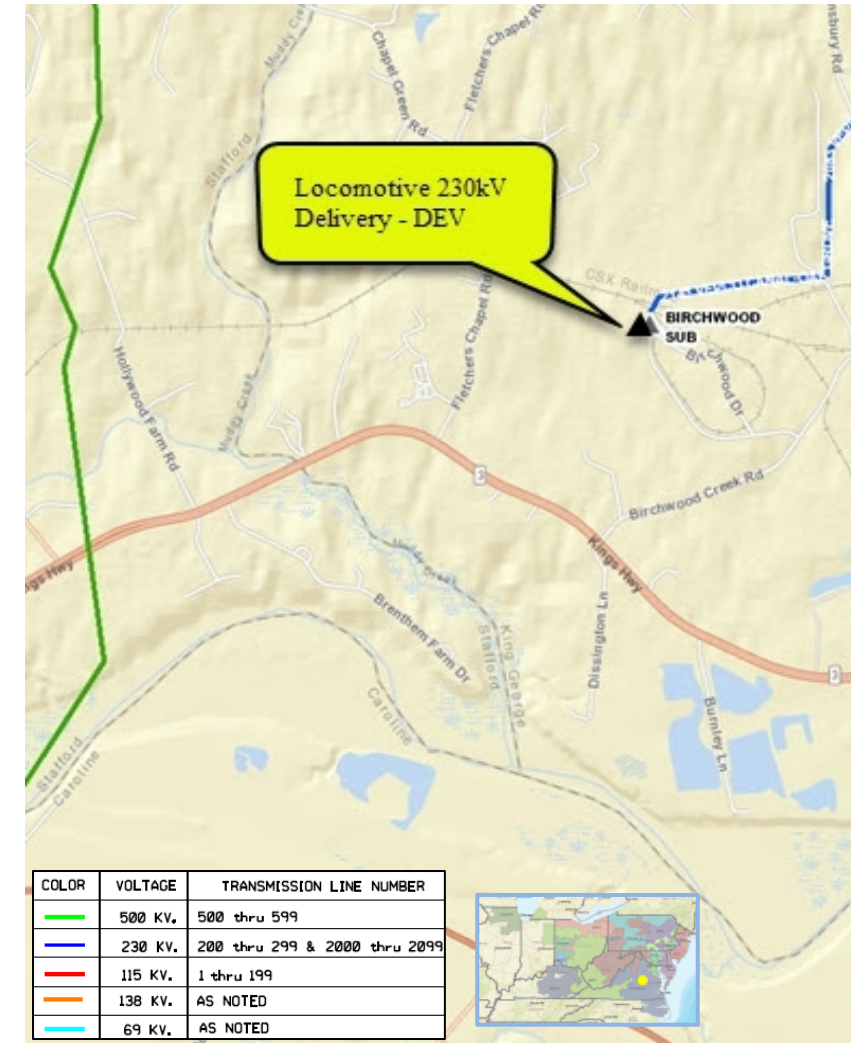
Specific Assumption References:

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

Problem Statement:

DEV Distribution has previously submitted a DP Request for a new substation (Locomotive) to serve a data center in King George County with a total load in excess of 100 MW. The requested in-service date is 05/01/2025. The DP request was withdrawn.

~~Initial In-Service Load~~	~~Projected 2028 Load~~
~~Summer: 6.0 MW~~	~~Summer: 84.0 MW~~



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2023-0034 (Canceled)

Process Stage: Cancellation Meeting 11/03/2026

Previously Presented: Need Meeting 05/09/2023

Project Driver: Customer Service

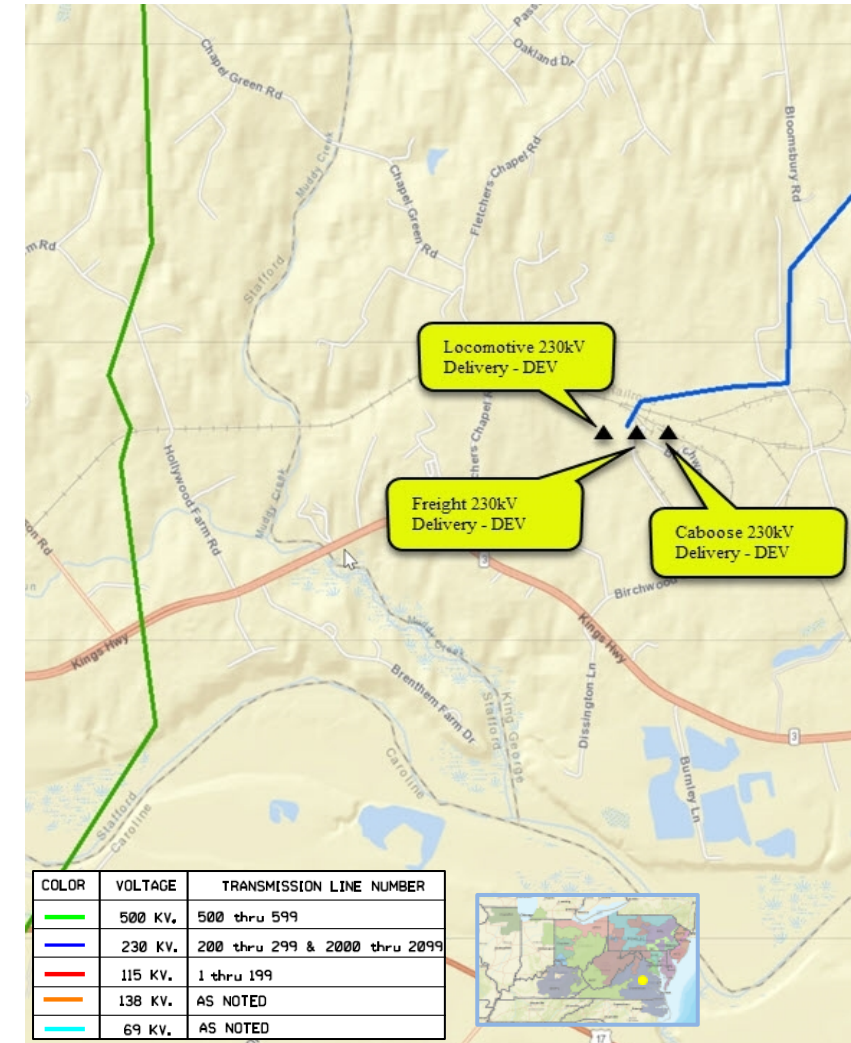
Specific Assumption References:

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

Problem Statement:

DEV Distribution has previously submitted a DP Request for a new substation (Freight) to serve a data center in King George County with a total load in excess of 100 MW. The requested in-service date is 08/05/2028. ~~The DP request was withdrawn.~~

Initial In-Service Load	Projected 2028 Load
Summer: 2.0 MW Winter: 0.0 MW	Summer: 2.0 MW Winter: 0.0 MW



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2024-0010 (Canceled)

Process Stage: Cancellation Meeting 11/03/2026

Previously Presented: Need Meeting 02/06/2024

Project Driver: Customer Service

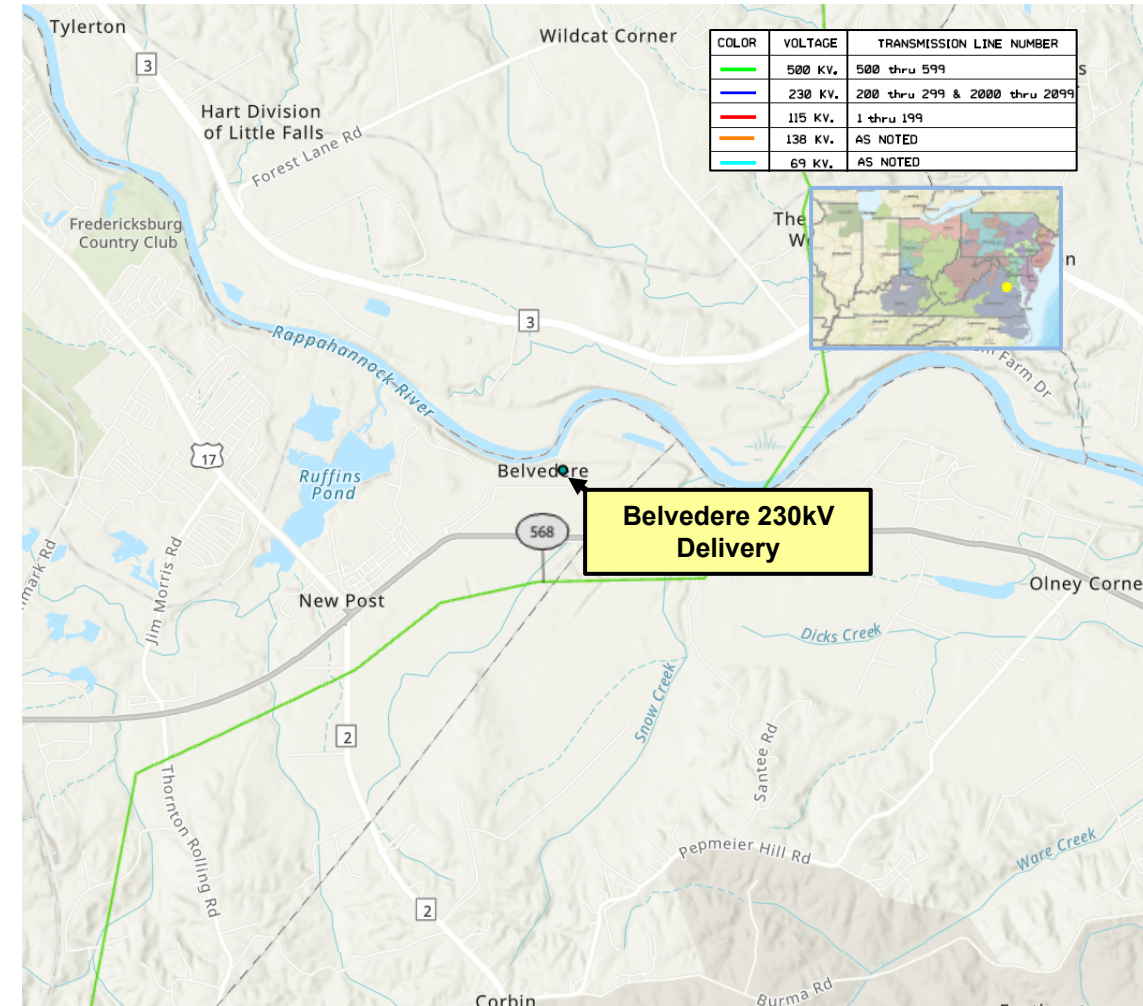
Specific Assumption References:

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

Problem Statement:

DEV Distribution has previously submitted a DP request for a new 230 kV delivery point (Belvedere) to serve a data center customer in Fredericksburg VA with a total load in excess of 100 MW. Requested in-service date is 1/01/2026. The DP request was withdrawn.

Initial In-Service Load	Projected 2028 Load
Summer: 92 MW Winter: 92 MW	Summer: 285 MW Winter: 285 MW



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2024-0033 (Canceled)

Process Stage: Cancellation Meeting 11/03/2026

Previously Presented: Need Meeting 04/30/2024

Project Driver: Customer Service

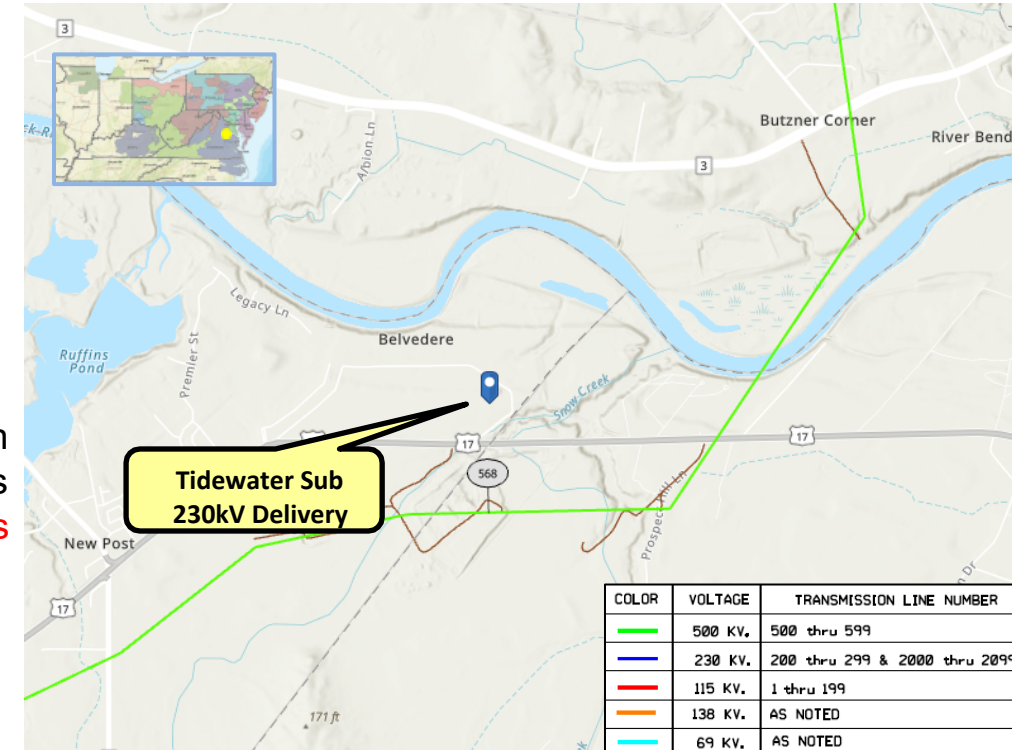
Specific Assumption References:

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

Problem Statement:

DEV Distribution has previously submitted a DP Request for a new substation (Tidewater) to serve a data center in Spotsylvania County with a total load in excess of 100 MW. The requested in-service date is 3/15/2029. The DP request was withdrawn.

Initial In-Service Load	Projected 2029 Load
Summer: 91.0 MW Winter: 34.0 MW	Summer: 210.0 MW Winter: 150.0 MW



Needs

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

Need Number: DOM-2026-0038

Process Stage: Need Meeting 11/03/2026

Project Driver: Equipment Material Condition, Performance and Risk

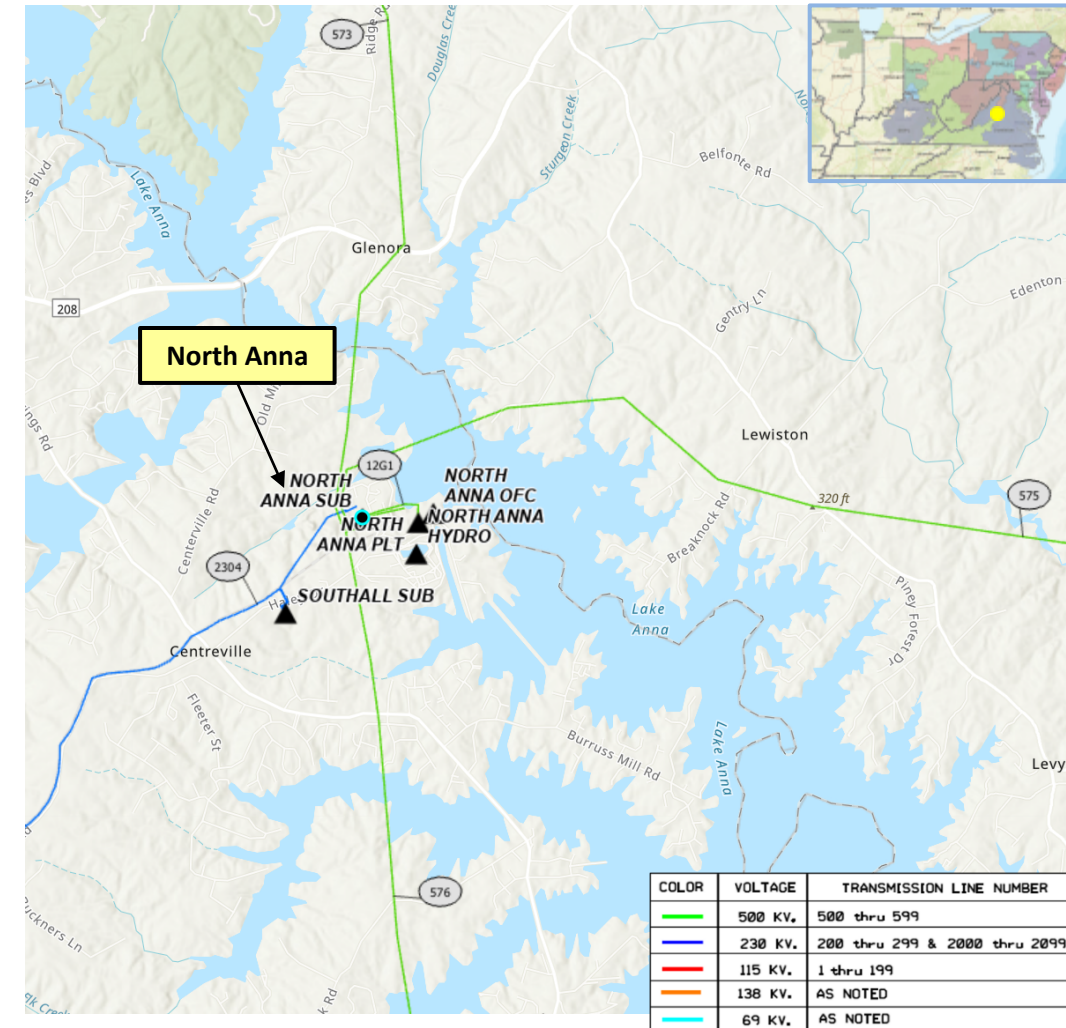
Specific Assumption References:

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

Problem Statement:

Dominion Energy has identified a need to replace four 500kV live tank breakers (G102-1, G102-2) and four switches (G104-1, G104-2, G105-1, G105-2) at North Anna Substation. These breakers and switches were manufactured in 2005 and are near end of life. The legacy live tank breakers have a history of component failures including external free standing CTs and grading capacitors. In addition, these live tank breakers are no longer manufactured by the vendor.

Expected in-service date for replacements is 05/31/2027.



Solutions

Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2021-0016-DNH (Update)

Process Stage: Solutions Meeting - 11/03/2026

Previously Presented: Submission of Supplemental Project for Inclusion in the Local Plan – 12/10/2021

Project Driver: Do No Harm Analysis

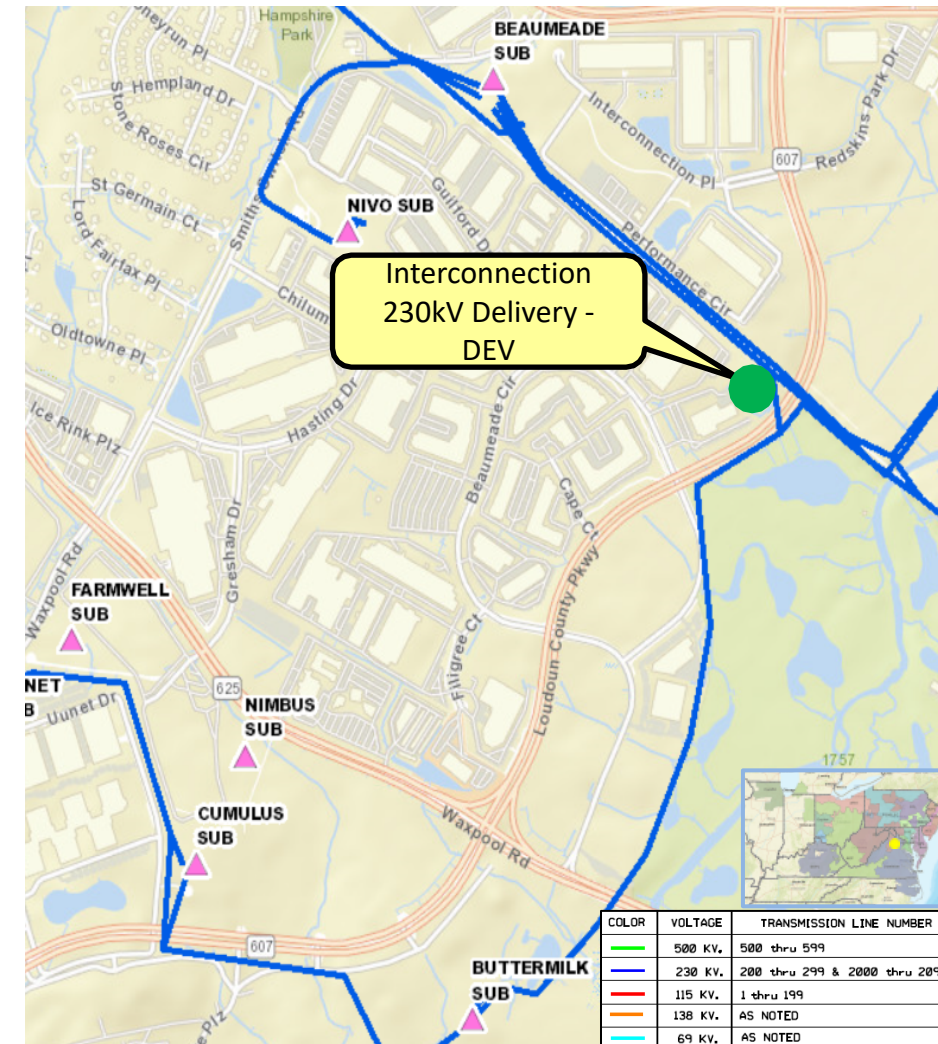
Specific Assumption References:

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

Problem Statement:

PJM has identified generation deliverability, N-1 thermal, and N-1-1 thermal violations for multiple facilities via their 2021 Do-No-Harm analysis of the 2025 RTEP model.

These violations were caused by Supplemental Project DOM-2021-0016 in the Dominion Zone.



Need Number: DOM-2021-0016-DNH (Update)

Process Stage: Solutions Meeting - 11/03/2026

Previously Presented: Submission of Supplemental Project for Inclusion in the Local Plan – 12/10/2021

Project Driver: Do No Harm Analysis

Proposed Solution (Part 3 of 4):

s2609.4 (\$70-M \$125 M):

- Install (1) 1400 MVA 500-230 kV transformer and associated 500 kV and 230 kV equipment (breakers, switches, leads) at Occoquan Substation to supply the area with a 500 kV source
- Cut and loop 500 kV line #571 (Ox – Possum Point) as the 500 kV source into the proposed 500 kV ~~ring-bus-side of the station~~. Construct Occoquan 500 kV yard using a six-breaker GIS design with space to accommodate eight breakers total.
- Existing terminations for 230 kV line #2001 (Occoquan – Possum Point), line #2013 (Occoquan – Ox), and line #2042 (Odgen Martin – Ox) will be rearranged to terminate into the Occoquan station
- Line #215 (Hayfield – Possum Point) will be rearranged to route over the expanded Occoquan station

s2609.5 (\$4.5 M):

- Rebuild 230 kV line #2013 (Occoquan – Ox) using a higher capacity conductor, as well as terminal equipment upgrades, to achieve an expecting rating of 1574 MVA.

s2609.6 (\$1 M):

- Upgrade (1) 230 kV breaker at Ox Substation due to an insufficient breaker duty rating with the expansion in place
- Cut and loop line #237 (Braddock – Possum Point) into Ox Substation

s2609.7 (\$8 M)

- Install a new backbone and associated 230 kV equipment to the south of the existing 230 kV yard in Ox substation

Estimated Project Cost: ~~\$84.0 M~~ 138.5 M (Total)

Transmission Line Cost: \$14.0 M

Substation Cost: ~~\$70.0 M~~ \$124.5 M

Alternatives Considered:

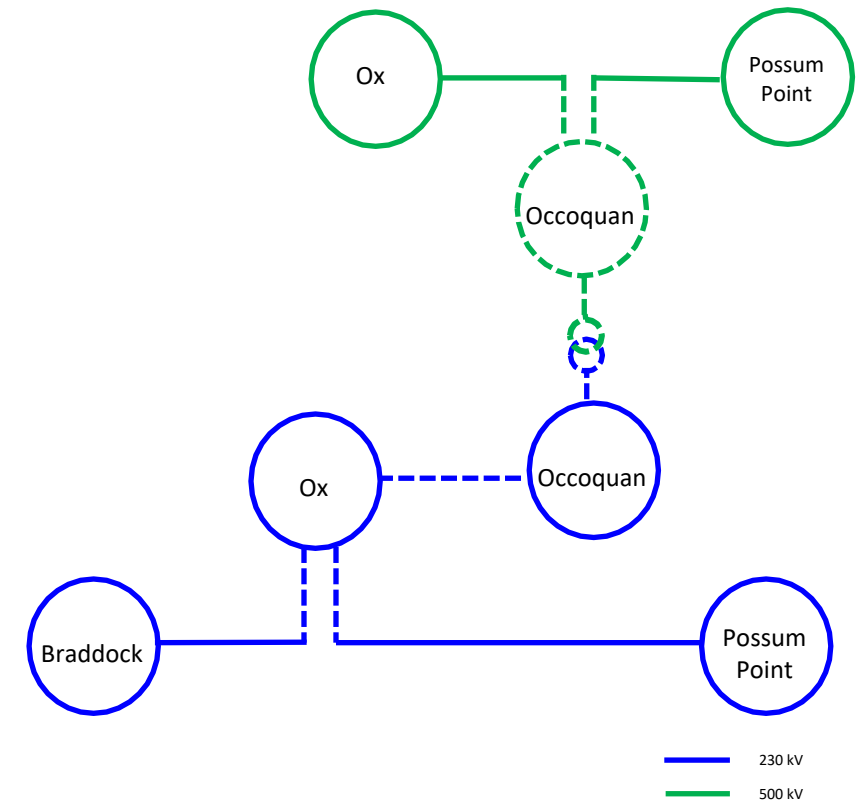
No feasible alternatives. Spatial constraints at Occoquan cannot accommodate a 500 kV AIS design. Cost estimates and scope have been updated to reflect the transition from AIS to GIS design, as well as a change in breaker kA ratings on the 500 kV and 230 kV side from 50 kA to 60 kA and 63 kA to 80 kA, respectively. Projected in-service date has been updated to reflect construction of the revised scope and re-evaluation of the identified need.

Projected In-service Date: ~~12/15/2026~~ 06/01/2029

Project Status: Engineering

Model: 2025 RTEP

Dominion Transmission Zone: Supplemental Do No Harm Analysis



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0059

Process Stage: Solution Meeting 11/03/2026

Previously Presented: Need Meeting 11/04/2025

Project Driver: Customer Service

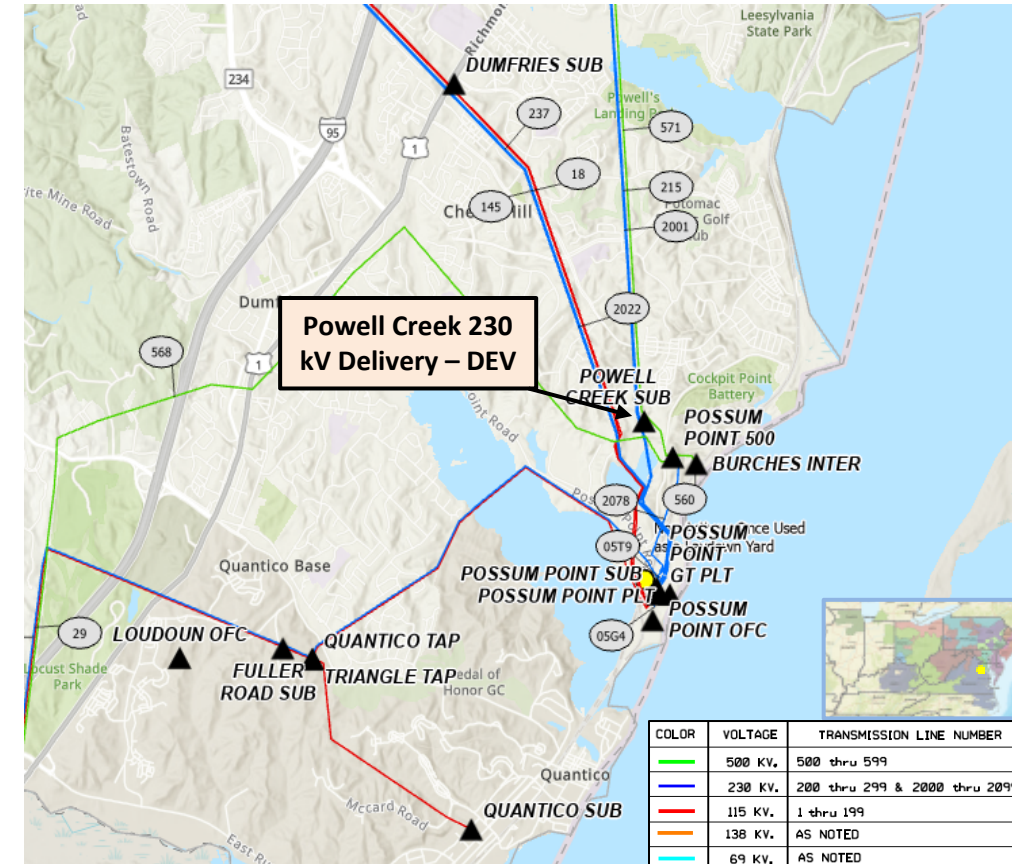
Specific Assumption References:

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 for a new substation (Powell Creek) to serve a new mixed-use non-data center development in Prince William County, VA with total expected capacity of 84MW.

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



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0059

Process Stage: Solution Meeting 11/03/2026

Proposed Solution:

- Tap line #2001 (Possum Point – Occoquan) between the structure 2001/8 and 2001/9 to extend a single circuit 230 kV source approx. 0.14 miles to Powell Creek. Install standard high-side protection.

Estimated Project Cost: \$5.32M

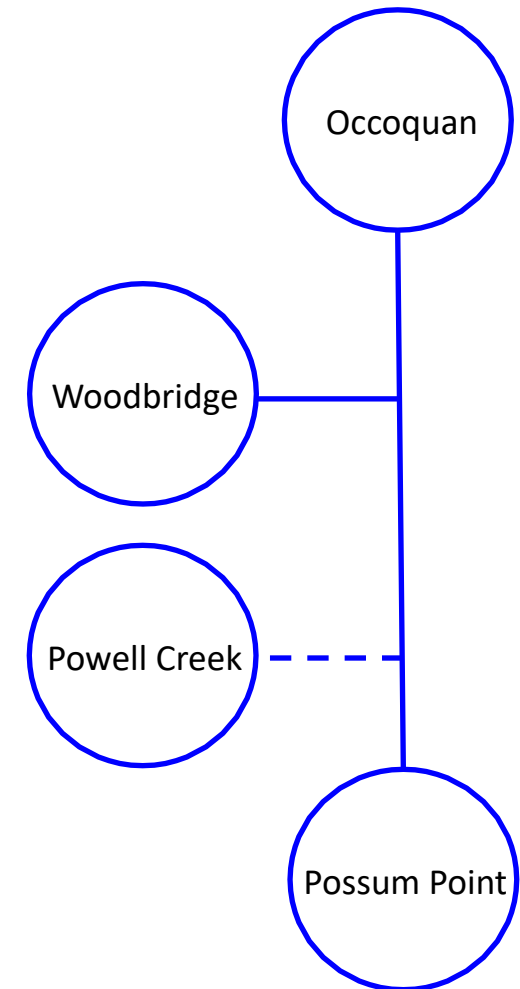
Alternatives Considered:

No feasible alternatives. Powell Creek is proposing to connect to the closest 230 kV transmission corridor.

Expected In-service Date: 12/31/2028

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

10/23/2026 – V1 – Original version posted to pjm.com.