

Dominion Supplemental Projects

Transmission Expansion Advisory
Committee
October 31, 2023

Needs

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2023-0052

Process Stage: Need Meeting 10/31/2023

Project Driver: Customer Service

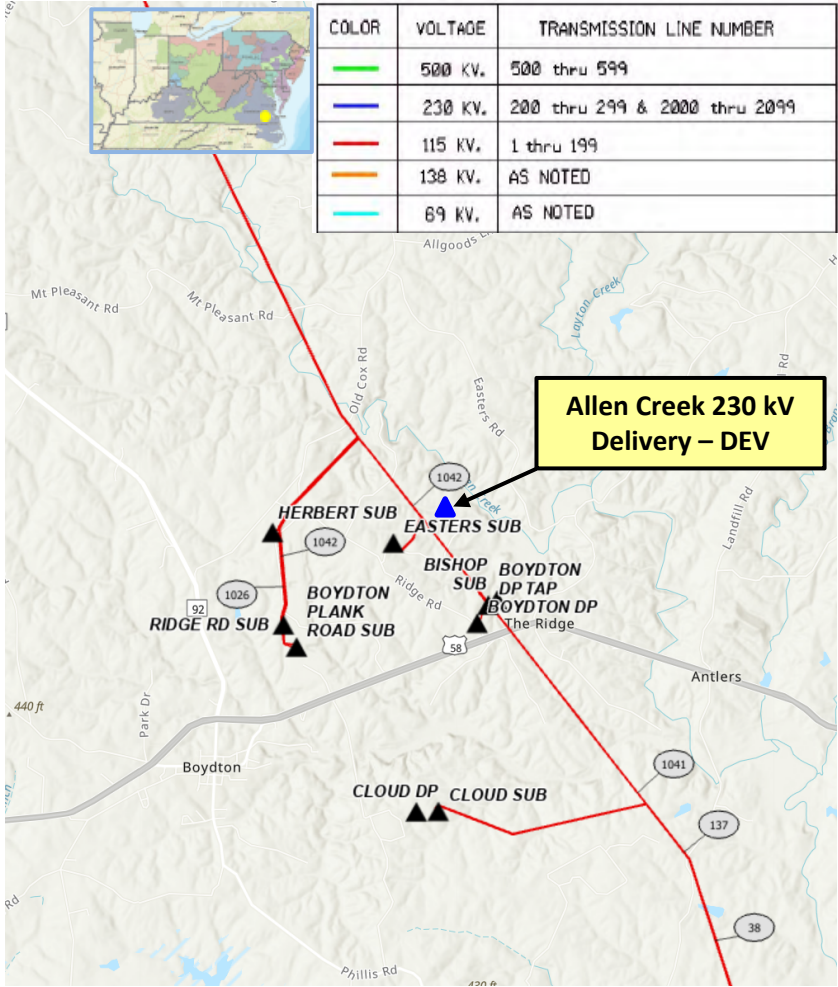
Specific Assumption References:

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

Problem Statement:

ODEC on behalf of Mecklenburg Electric Coop (MEC) has submitted a DP request for a new 230 kV delivery point (Allen Creek Sub) to serve a data center customer in Mecklenburg County with a total load in excess of 100 MW. Requested in-service date is 12/01/2025.

Initial In-Service Load	Projected 2028 Load
Summer: 0 MW Winter: 12 MW	Summer: 80 MW Winter: 110 MW



Solutions

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2022-0033 (Update)

Process Stage: Solution Meeting 10/31/2023

Previously Presented: Solution Meeting 09/06/2022

Project Driver: Customer Service

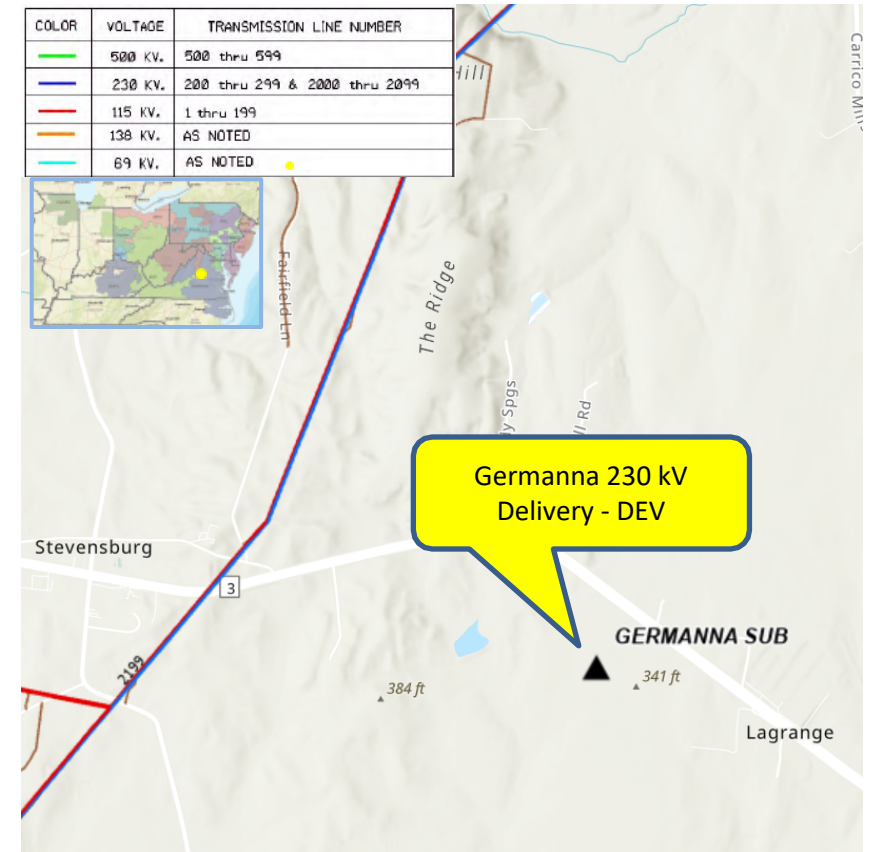
Specific Assumption References:

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 230kV substation (Germanna) to serve a data center complex in Culpeper County with a total projected load of **124 MW**. Requested in-service date is **04/16/2026**.

Initial In-Service Load	Projected 2028 Load
Summer: 23 MW Winter: 0 MW	Summer: 108 MW Winter: 87 MW



Dominion Transmission Zone: Supplemental Germanna 230kV Delivery Point - DEV

Need Number: DOM-2022-0033

Process Stage: Solutions Meeting 10/31/2023

Previously presented: Solutions Meeting 09/06/2022

Proposed Solution:

Interconnect the new substation by cutting and extending Line #2199 (Cirrus-Gordonsville) to the proposed Germanna Substation. Lines to terminate in a 230kV four-breaker ring arrangement with an ultimate arrangement of a six-breaker ring.

Estimated Project Cost: \$55 M

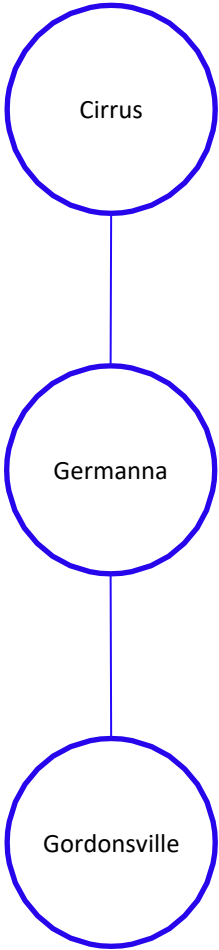
Alternatives Considered:

No feasible alternatives – Line #2199 is the only 230kV source in the area

Projected In-service Date: 04/16/2026

Project Status: Engineering

Model: RTEP 2028



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

10/20/2023 – V1 – Original version posted to pjm.com