

Dominion Supplemental Projects

Transmission Expansion Advisory
Committee
November 14, 2019

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-2019-0024

Process Stage: Solutions Meeting 11/14/2019

Previously Presented: Need Meeting 10/17/2019

Project Driver: Customer Service

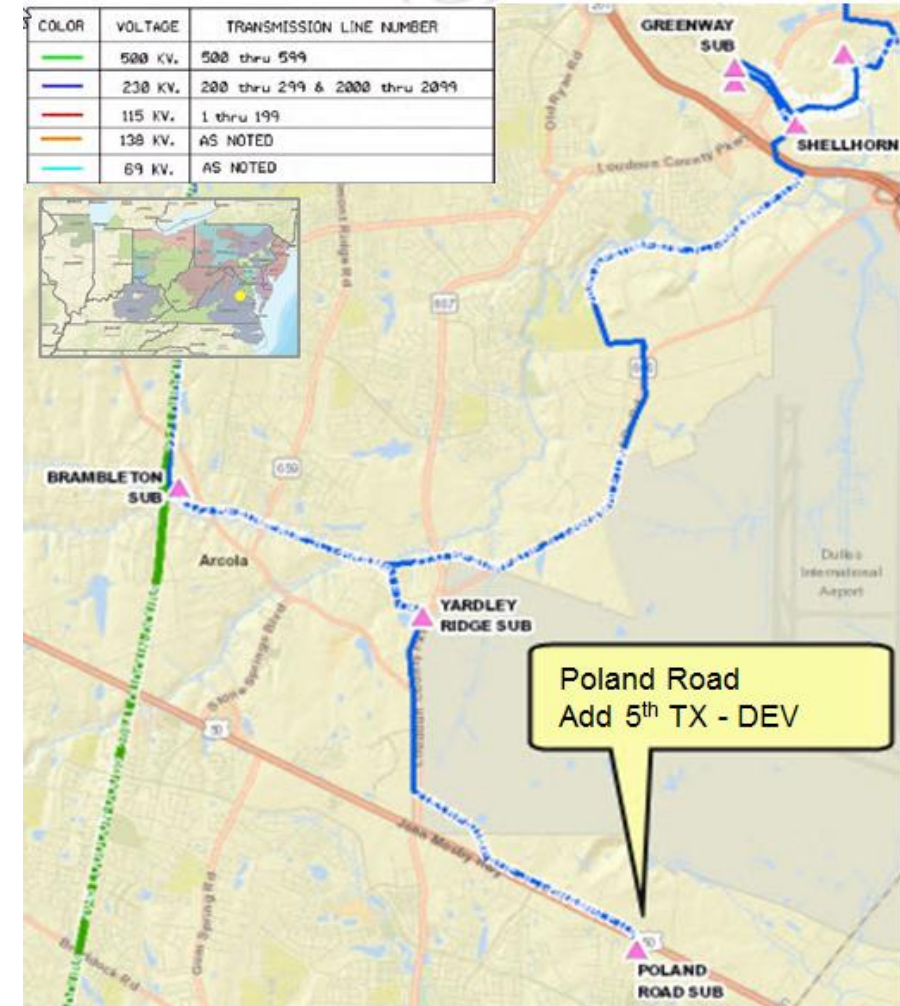
Specific Assumption References:

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 add a 5th, 84 MVA distribution transformer at Poland Road Substation in Loudoun County. The new transformer is being driven by continued datacenter load growth and alternate feed contract reservations. Requested in-service date is 10/15/2022.

Initial In-Service Load	Projected 2024 Load
Summer: 268.0 MW	Summer: 293.0 MW



Dominion Transmission Zone: Supplemental Poland Road 230kV Delivery- Add 5th TX - DEV

Need Number: DOM-2019-0024

Process Stage: Solutions Meeting 11/14/2019

Proposed Solution:

Install a 1200 Amp, 50kAIC circuit switcher and associated equipment (bus, switches, relaying, etc.) to feed the new transformer at Poland Road.

Estimated Project Cost: \$0.4 M

Alternatives Considered:

No feasible alternatives

Projected In-service Date: 10/15/2022

Project Status: Engineering

Model: 2023 RTEP



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

Need Number: DOM-2019-0028

Process Stage: Solutions Meeting 11/14/2019

Previously Presented: Need Meeting 10/17/2019

Project Driver: Contamination and Operational Flexibility

Specific Assumption References:

Dominion Energy Supplemental Project Drivers presented at the December 5, 2018 Southern Sub-Regional Meeting: II. Equipment Material Condition, Performance and Risk & III. Operational Flexibility and Efficiency.

Problem Statement:

Ice and weather continue to be an issue at Mt Storm Substation that affects the operation and maintenance of the remaining outdoor equipment located in the substation. In 2014 half the existing 500 kV substation equipment was converted to GIS.



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

Need Number: DOM-2019-0028

Process Stage: Solutions Meeting 11/14/2019

Proposed Solution:

Install 2nd GIS building in the Mt Storm switchyard to house the breakers/switches for the Line #550, #536, Generators #2 and #3, and 500 kV Capbank(s) #1 and #2. Additionally, the existing GIS building will be expanded to include breakers/switches for the Line #529, #572 and Capbank #3.

Estimated Project Cost: \$69.0 M

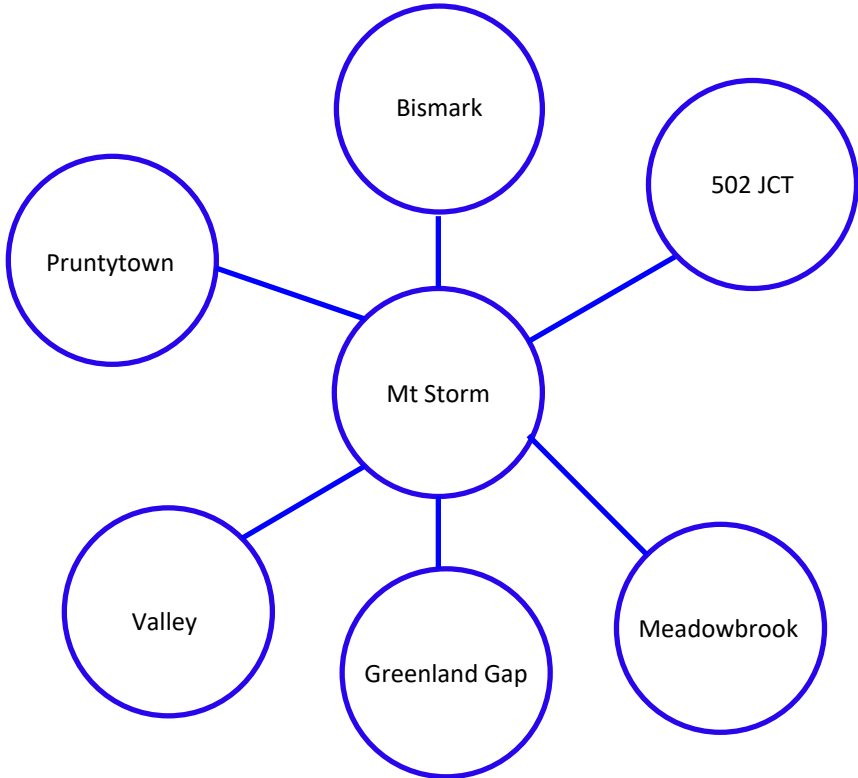
Alternatives Considered:

No feasible alternatives

Projected In-service Date: 05/22/2022

Project Status: Engineering

Model: 2023 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

11/04/2019 – V1 – Original version posted to pjm.com