

Dominion Supplemental Projects

Transmission Expansion Advisory
Committee
December 12, 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-2018-0001

Process Stage: Solution - Revision

Previously Presented:

Need Meeting – 9/13/2018; Solution Meeting – 10/11/2018; Local Plan – s1750

Project Driver: Customer Service

Specific Assumption References:

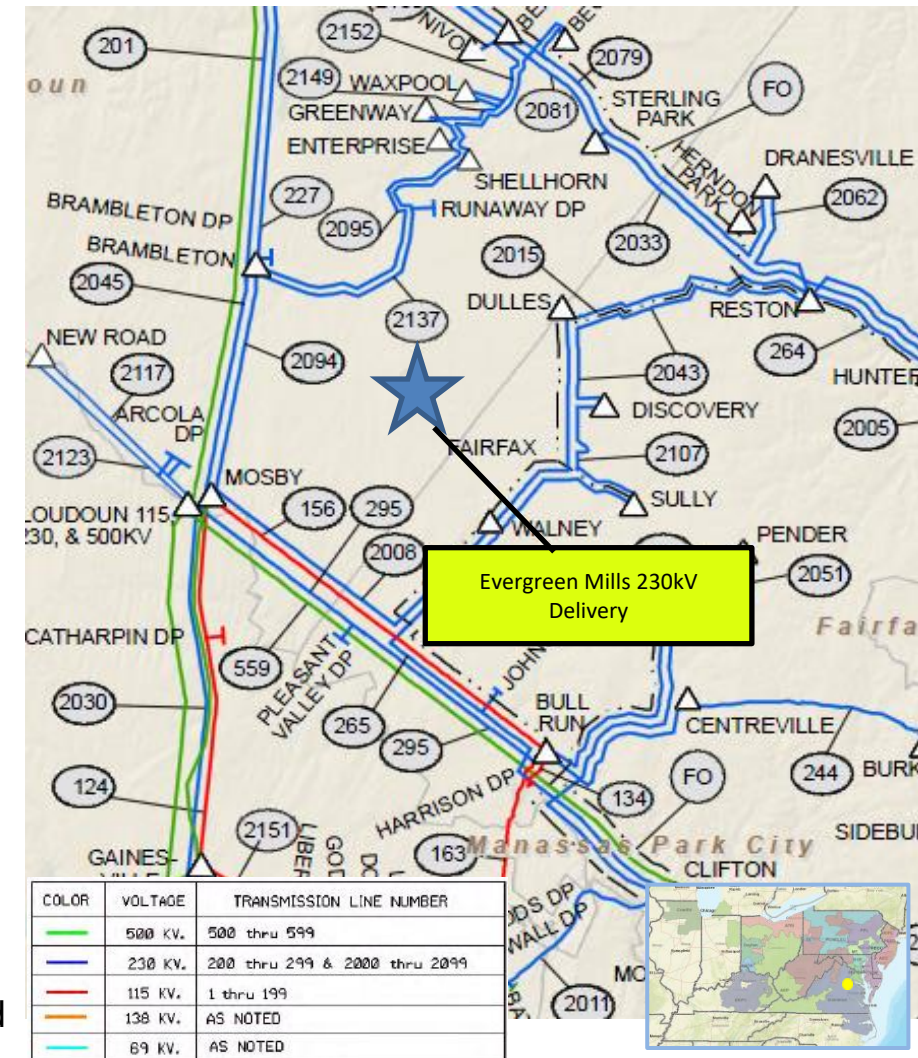
Customer load request will be evaluated per Dominion’s Facility Interconnection Requirements Document and Dominion’s Transmission Planning Criteria.

Problem Statement:

DEV Distribution has submitted a request to serve a new datacenter campus in Loudoun County with total load in excess of 100MW by 2025. Requested in-service date is 5/1/2021.

Initial In-Service Load	Projected 2024 Load
Summer: 5 MW	Summer: 80.0 MW

DEV Distribution does not have adequate distribution facilities to serve this customer load request.



Dominion Transmission Zone: Supplemental Evergreen Mills 230kV Delivery - DEV

Need Number: DOM-2018-0001

Process Stage: Solution - Revision

Proposed Solution:

With the total projected load exceeding 100 MW, two transmission sources will be required to comply with the Company's Facility Interconnection Requirements and avoid a violation of mandatory NERC reliability criteria. Cut and extend Line #2172 (Brambleton-Yardley Ridge) into and out of new Evergreen Mills Switching Station which will be constructed with four (4) 230 kV breakers in a ring bus arrangement.

The customer has requested two (2) additional 230kV breakers to be installed for additional redundancy and will be responsible for excess facilities charges. Estimated excess facilities charge for two breakers is \$1.8M.

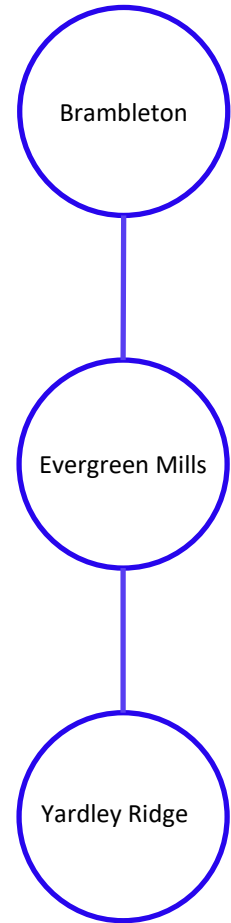
The previously presented solution was modified due to decreased Customer load projections.

Estimated Project Cost: \$21.2 M

Supplemental Project ID: s1750

Project Status: Conceptual

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

12/02/2019 – V1 – Original version posted to pjm.com