

PJM TEAC Committee Dominion Supplemental Projects

July 11, 2019

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 M-3 Process Coleman Creek DP - Customer Load Request

Need Number: DOM-2019-0025

Process Stage: Needs Meeting 07/11/2019

Supplemental Project Driver:

Customer Service

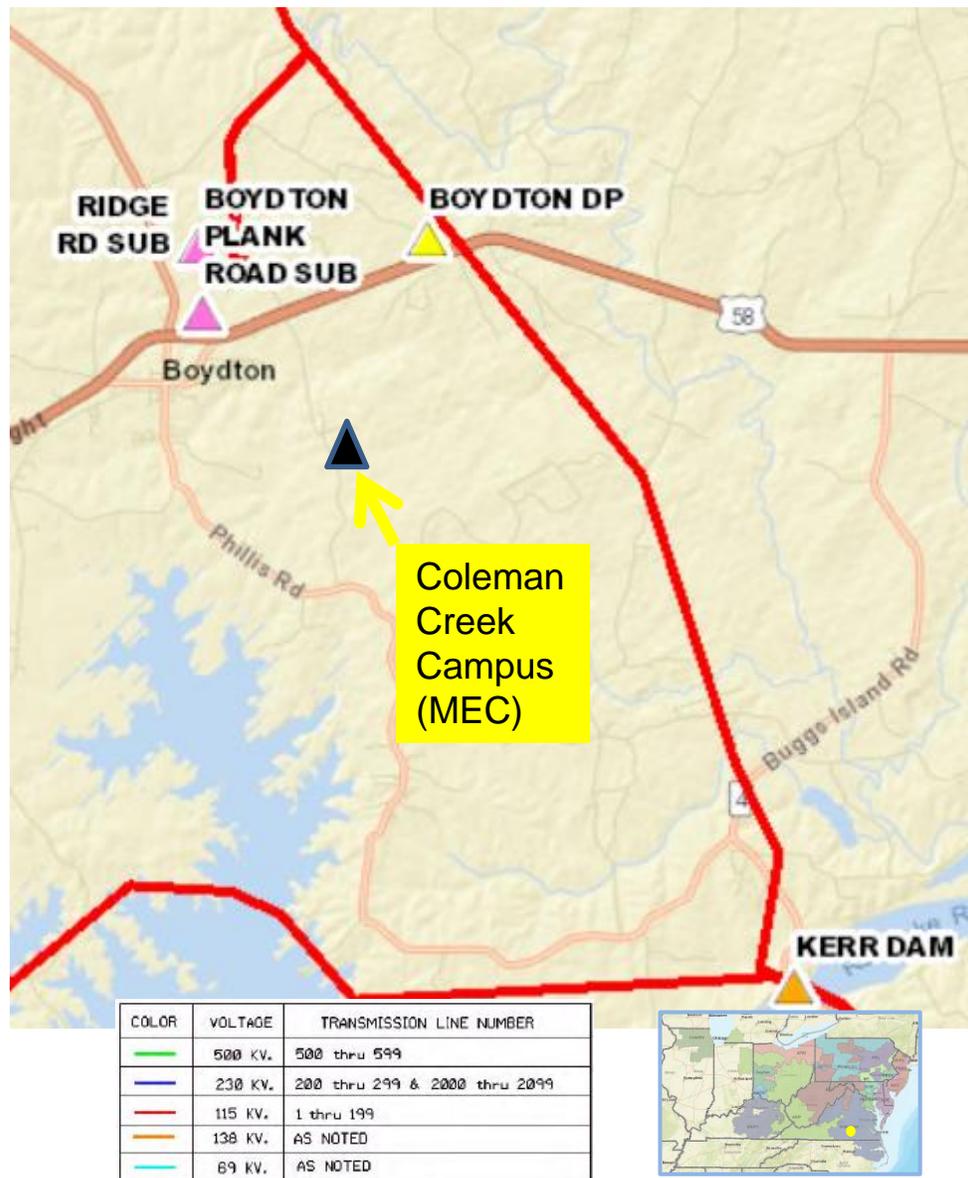
Specific Assumption References:

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

Problem Statement:

ODEC has submitted a request on behalf of Mecklenburg Electric Coop (MEC) for a new delivery point (Coleman Creek) at Boydton, VA to support a new datacenter campus with a total load in excess of 100 MW. Requested in-service date is 04/01/2020.

Initial In-Service Load	Projected 2024 Load
Summer: 20.0 MW	Summer: 287.0 MW



Dominion Transmission Zone M-3 Process Chickahominy TX #1 Replacement - THA

Need Number: DOM-2019-0027

Process Stage: Needs Meeting 07/11/2019

Supplemental Project Driver:

TX Health Assessment (THA)

Specific Assumption References:

See details on Equipment Material Condition, Performance and Risk in Dominion’s Planning Assumptions presented in December 2018

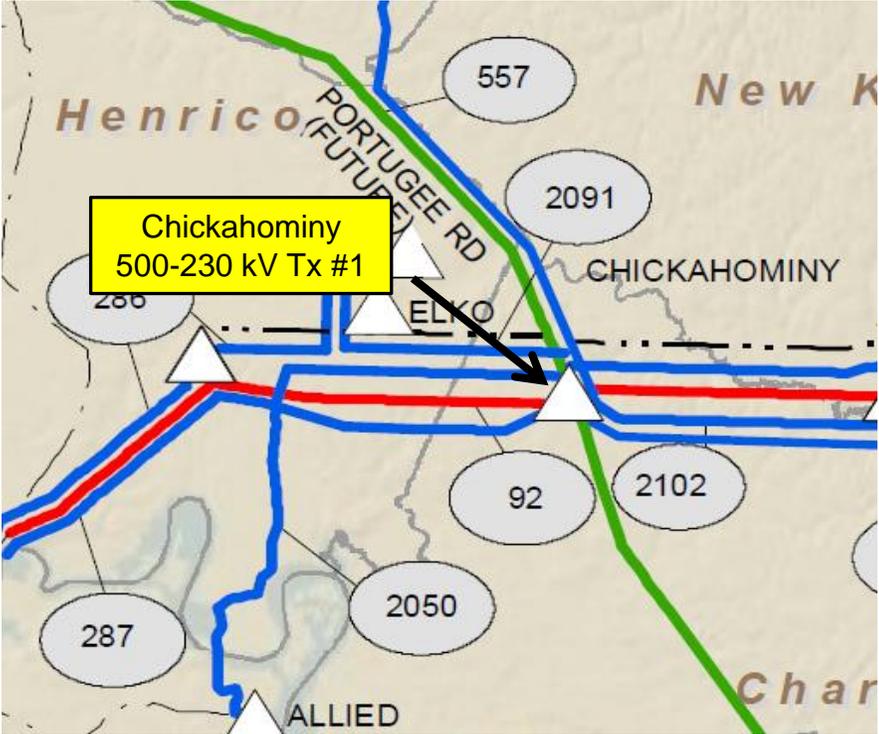
Problem Statement:

Chickahominy 500-230 kV 840 MVA transformer #1 needs to be replaced as a result of Dominion’s ongoing transformer health assessment (THA) process. This process considers design characteristics, past electrical test results, dissolved gas-in-oil test results, age, ongoing maintenance issues, and past failures of similar designed transformers.

This transformer was manufactured in 1987 and is the last Westinghouse shell transformer on the Dominion System, these transformers have known issues.

Drivers for replacement are:

- Reduced BIL Ratings
- Previously remanufactured following failure
- Transformers of this manufacture are considered suspect due to previous transformer failures



COLOR	VOLTAGE	TRANSMISSION LINE NUMBER
Green	500 KV.	500 thru 599
Blue	230 KV.	200 thru 299 & 2000 thru 2099
Red	115 KV.	1 thru 199
Orange	138 KV.	AS NOTED
Cyan	69 KV.	AS NOTED



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

07/01/2019 – V1 – Original version posted to pjm.com