

SRRTEP Committee Southern Dominion Supplemental Projects

May 21, 2020

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 Equipment Material Condition, Performance and Risk

Need Number: DOM-2020-0015

Process Stage: Need Meeting 05/21/2021

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 2019

Problem Statement:

Remington CT Tx#9 is a 224MVA, 230/115kV transformer originally manufactured in 1971 as a 200 MVA unit and remanufactured in 1996 as a 224 MVA unit. This transformer is being replaced on the results of our ongoing transformer health assessment (THA) process. Detailed drivers are:

- Oil DGA levels are trending upwards. Unit was exhibiting upward trending combustible gasses from 2001 to 2013 when oil was reprocessed, however gasses are continuing to trend upward even after oil processing.
- Reduced BIL ratings



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2020-0016

Process Stage: Need Meeting 05/21/2020

Project Driver: Customer Service

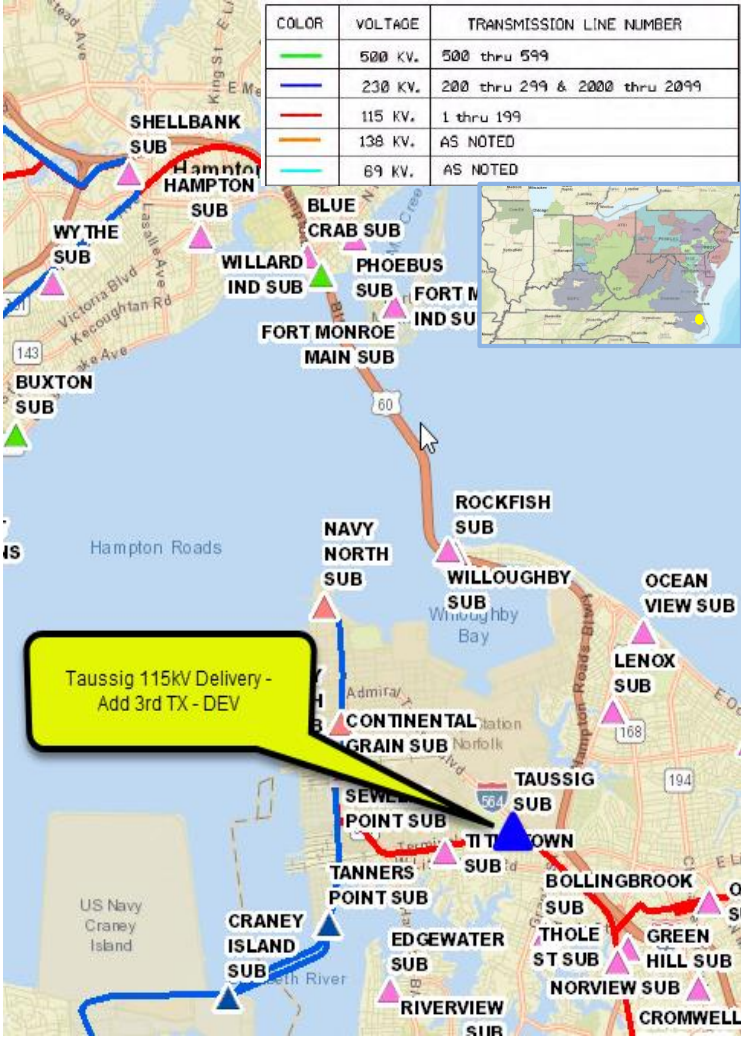
Specific Assumption References:

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 3rd, 56 MVA distribution transformer at Taussig Substation in the City of Norfolk. The new transformer is being driven by new load from the Hampton Road Bridge Tunnel (HRBT) expansion. Requested in-service date is 05/31/2021.

Initial In-Service Load	Projected 2025 Load
Summer: 73.7 MW	Summer: 74.2 MW



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2020-0017

Process Stage: Need Meeting 05/21/2020

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 2nd, 33.6 MVA distribution transformer at Mercury Substation in the City of Hampton. The new transformer is being driven by new load from the Hampton Road Bridge Tunnel (HRBT) expansion. Requested in-service date is 09/01/2023.

Initial In-Service Load	Projected 2025 Load
Summer: 37.2 MW	Summer: 37.2 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 Wave Trap and Arresters Replacement at Buggs Island NUG Sub

Need Number: DOM-2020-0011

Process Stage: Solutions Meeting 05/21/2020

Previously Presented: Need Meeting 04/16/2020

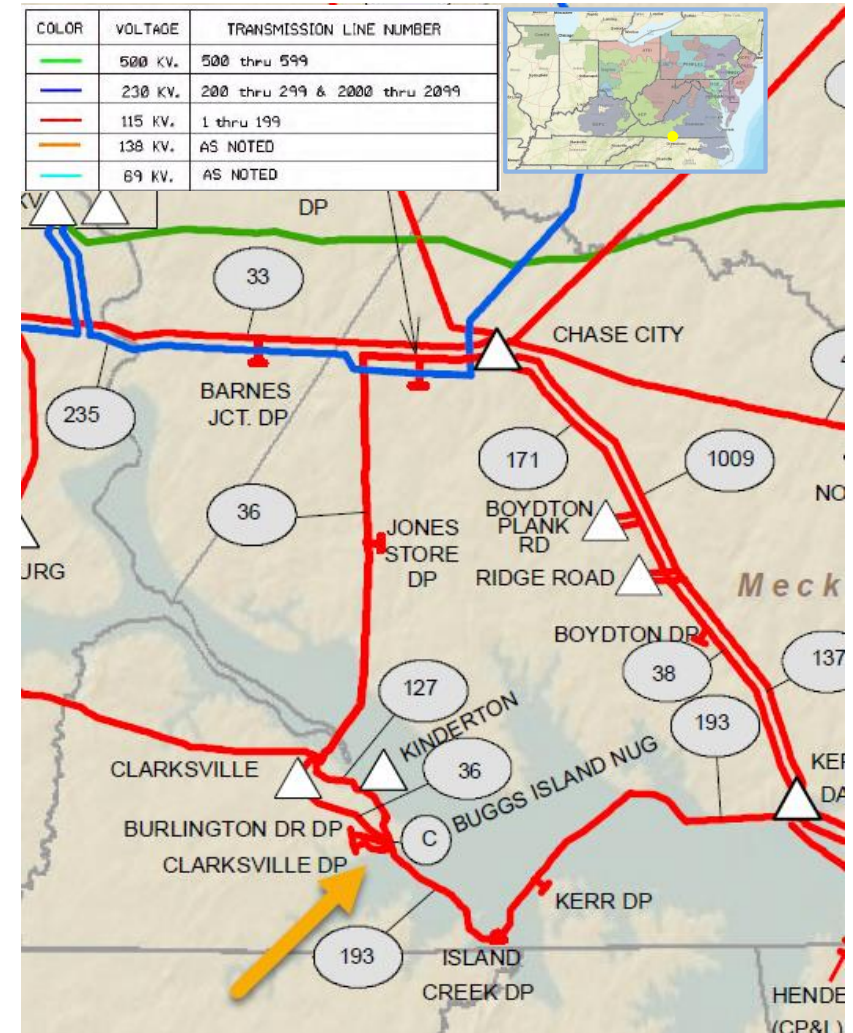
Project Driver: Equipment Material Condition, Performance and Risk

Specific Assumption References:

See details on Equipment Material Condition, Performance and Risk in Dominion's Planning Assumptions presented in December 2019

Problem Statement:

Dominion Energy has identified a need to replace Line #36 wavetraps and arresters at Buggs Island NUG Substation due to end of life.



Dominion Transmission Zone: Supplemental Wave Trap and Arresters Replacement at Buggs Island NUG Sub

Need Number: DOM-2020-0011

Process Stage: Solutions Meeting 05/21/2020

Proposed Solution:

Replace Line #36 wavetraps and arresters at Buggs Island NUG Substation.

Estimated Project Cost: \$0.2 M

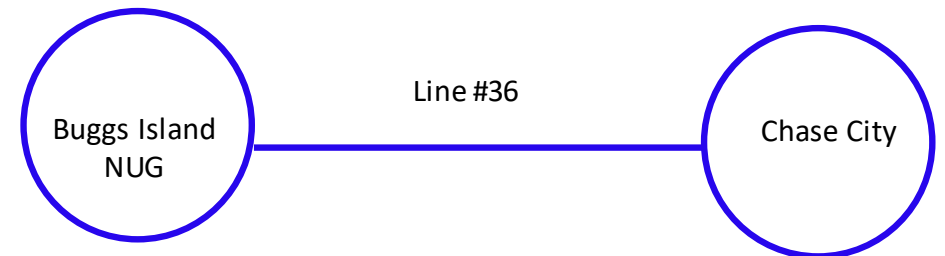
Alternatives Considered:

No feasible alternatives

Projected In-service Date: 06/15/2020

Project Status: Engineering

Model:



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

5/11/2020 – V1 – Original version posted to pjm.com