

Dominion Supplemental Projects

Transmission Expansion Advisory
Committee
April 12, 2022

Supplemental Project Cancellations

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2018-0023

Process Stage: Cancellation Meeting 04/12/2022, Initial TEAC Meeting 12/13/2018

Project Driver: Customer Service

Specific Assumption References:

Customer load request was evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

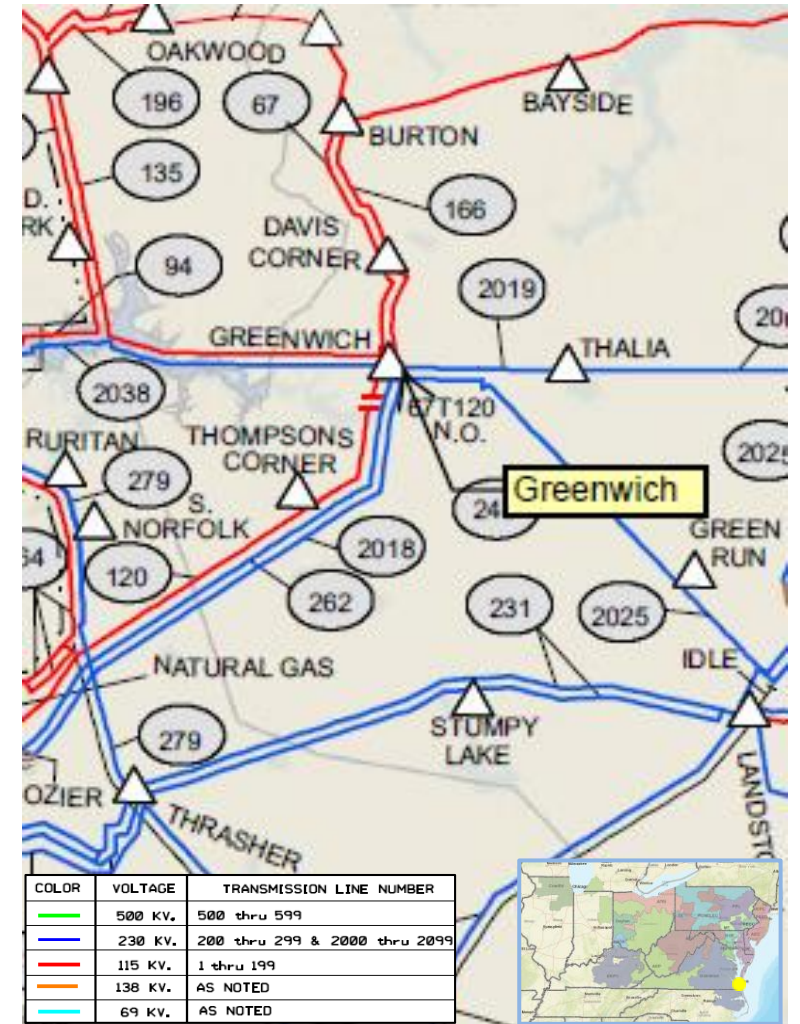
Problem Statement:

DEV Distribution no longer has the need to install a second distribution transformer at Greenwich substation in Virginia Beach due to load not growing in the area as anticipated. The requested in-service date was 10/15/2019. The original need slide was presented on 12/13/2018, and the solution slide on 2/7/2019.

Projected 2023 Load was:

Summer: 77 MVA

Winter: 77 MVA



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-2022-0023

Process Stage: Need Meeting 04/12/2022

Project Driver: Equipment Material Condition, Performance and Risk

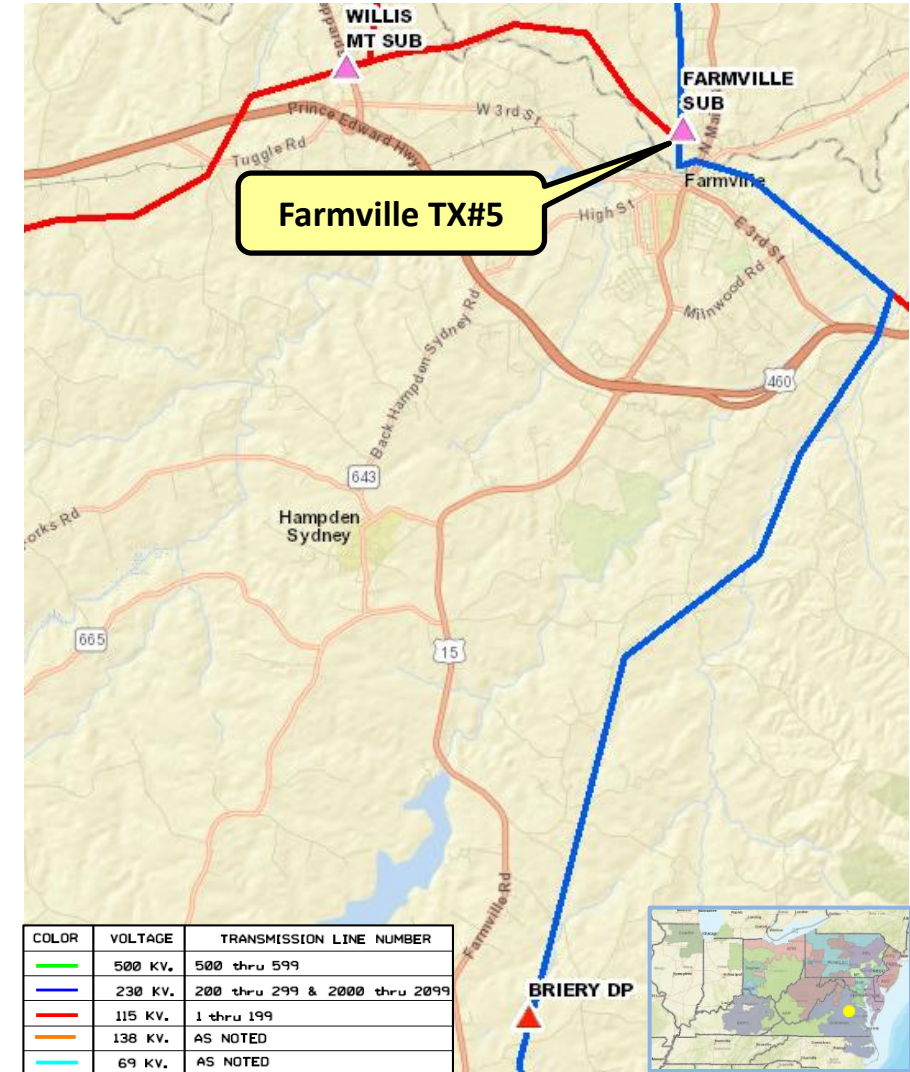
Specific Assumption References:

See details on Equipment Material Condition, Performance and Risk in Dominion's Planning Assumptions presented in December 2021.

Problem Statement:

Farmville TX#5 is a 168 MVA, 230/115/13.2 kV transformer bank that was manufactured in 1981. This transformer bank has been identified for replacement based on the results of Dominion's transformer health assessment (THA) process. Detailed drivers include:

- Age (>40 years old).
- Reduced BIL ratings (3 levels below standard).
- Degraded porcelain type bushings.
- Oil DGA indicates consistent CO and CO2 levels; potential break down of dielectric paper insulation on main current carrying conductors inside the transformer.
- THA score less than 80.



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

Need Number: DOM-2022-0024

Process Stage: Need Meeting 04/12/2022

Project Driver: Equipment Material Condition, Performance and Risk

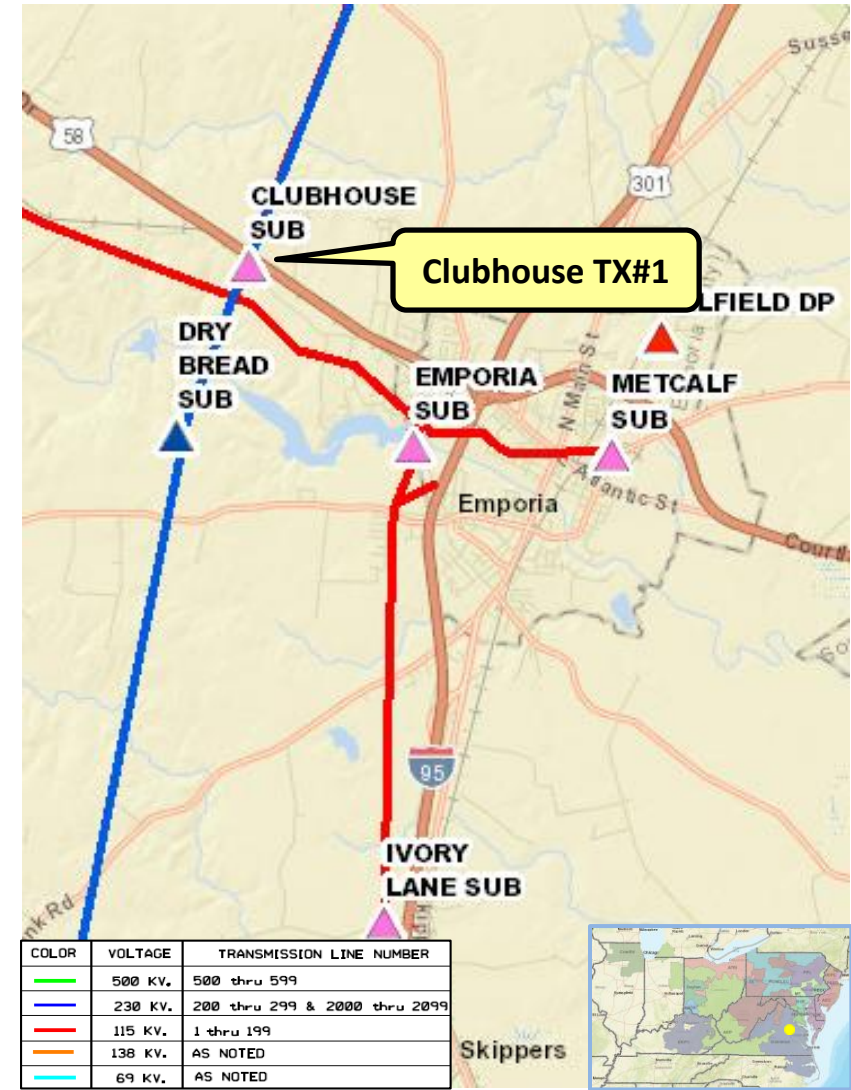
Specific Assumption References:

See details on Equipment Material Condition, Performance and Risk in Dominion's Planning Assumptions presented in December 2021.

Problem Statement:

Clubhouse TX#1 is a 168 MVA, 230/115/13.2 kV transformer bank that was manufactured in 1981. This transformer bank has been identified for replacement based on the results of Dominion's transformer health assessment (THA) process. Detailed drivers include:

- Age (>40 years old).
- Reduced BIL ratings (3 levels below standard).
- Degraded porcelain type bushings.
- Oil DGA indicates consistent CO and CO2 levels; potential break down of dielectric paper insulation on main current carrying conductors inside the transformer.
- THA score less than 80.



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-2022-0009

Process Stage: Solutions Meeting 04/12/2022

Previously Presented: Need Meeting 03/08/2022

Project Driver: Customer Service

Specific Assumption References:

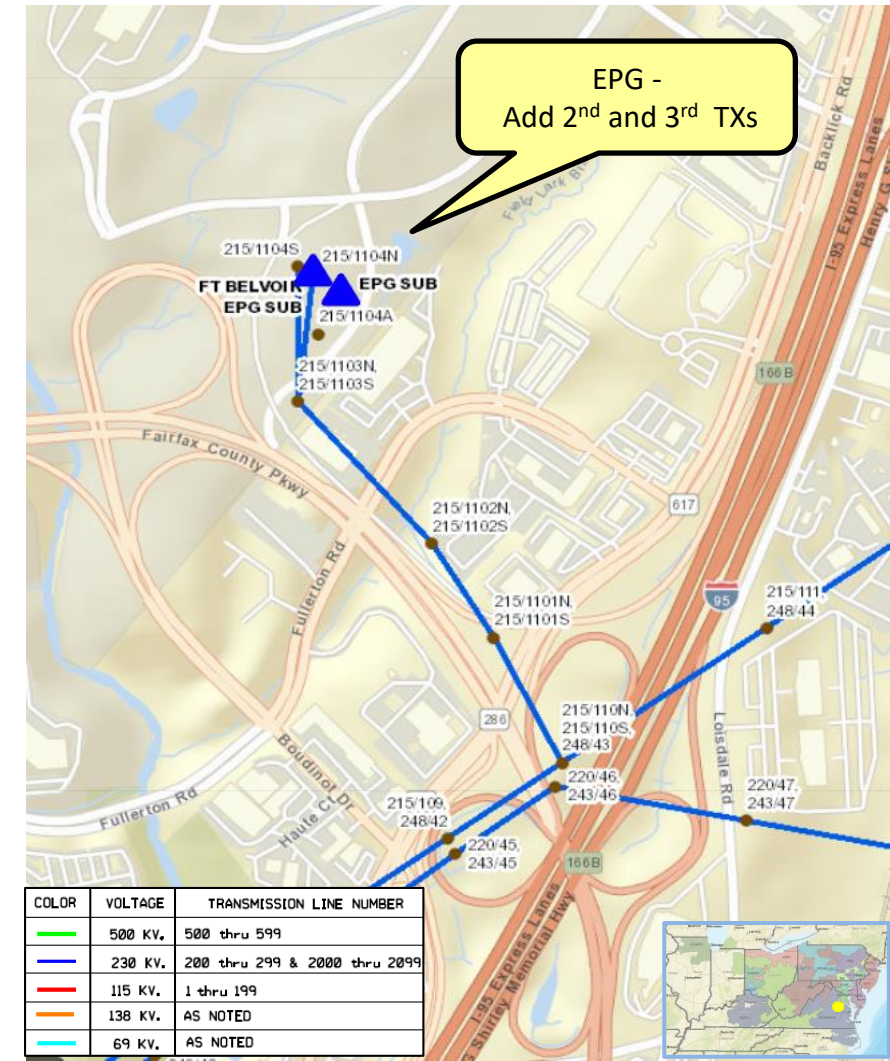
Customer load request will be evaluated per Dominion’s Facility Interconnection Requirements Document and Dominion’s Transmission Planning Criteria.

Problem Statement:

DEV Distribution has submitted a DP Request to add the 2nd and 3rd distribution transformers at EPG Substation in Fairfax County. The new transformers are being driven by continued load growth in the area.

Requested in-service date is 03/31/2023.

Initial In-Service Load	Projected 2026 Load
Summer: 8.0 MW	Summer: 34.0 MW



Dominion Transmission Zone: Supplemental EPG - Add 2nd and 3rd TXs - DEV

Need Number: DOM-2022-0009

Process Stage: Solutions Meeting 04/12/2022

Proposed Solution:

Install a four-breaker ring bus arrangement to create a Possum Point-EPG line and an EPG-Hayfield line.

Estimated Project Cost: \$1.5 M

Note: Per Dominion’s Facility Interconnection Requirements Document, Section 4.3.1, the Customer will be required to pay excess facilities for all equipment above a T-tap interconnection.

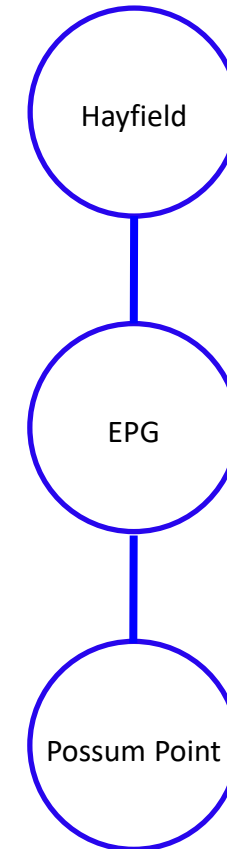
Alternatives Considered:

No feasible alternatives

Projected In-service Date: 03/31/2023

Project Status: Conceptual

Model: 2025 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

03/31/2022 – V1 – Original version posted to pjm.com

04/13/2022 – V2 – Updated need number on slide 3