

SRRTEP Committee Southern Dominion Supplemental Projects

November 16, 2023

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

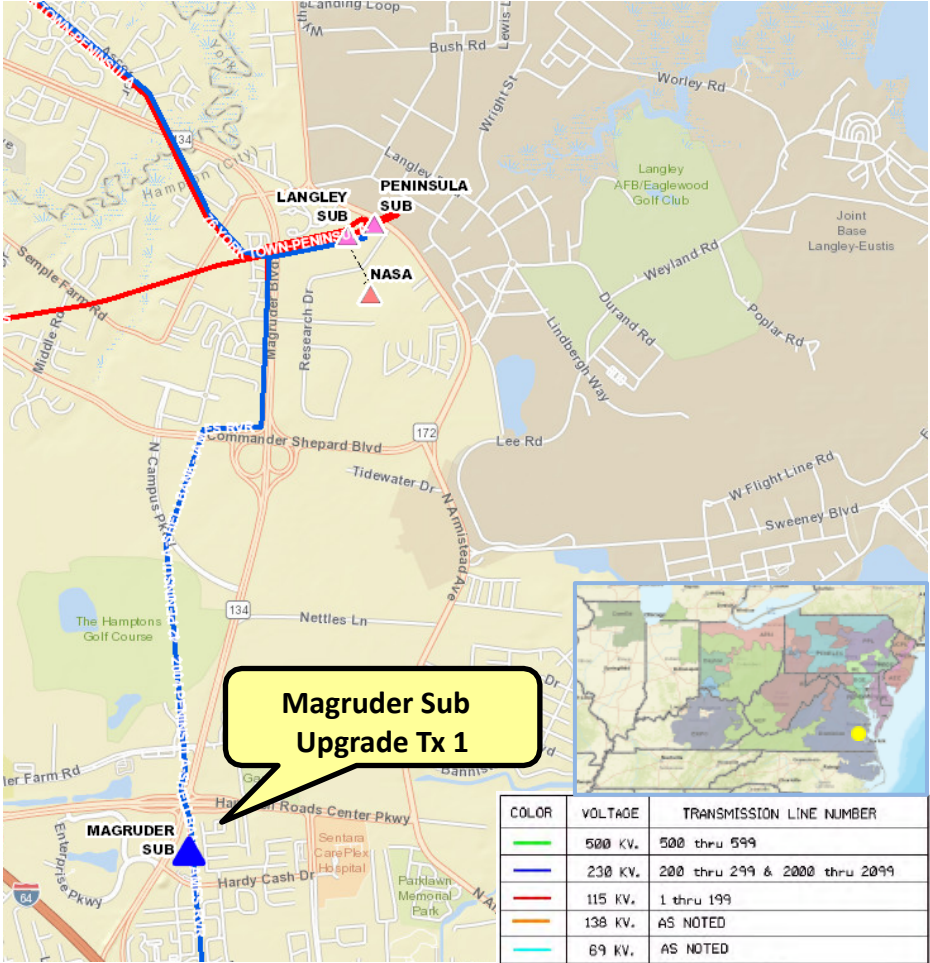
Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2023-0037
Process Stage: Solution Meeting 11/16/2023
Previously Presented: Need Meeting 06/15/2023
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 has submitted a delivery point request to upgrade 115/13.2kV transformer #1 existing Magruder Substation in Hampton, VA. The upgrade is being driven by new customer load. The total load is under 100 MW. The customer requests service by December 31, 2024.

Initial In-Service Load	Projected 2028 Load
Summer: 55.4 MW	Summer: 64.1 MW
Winter: 50.0 MW	Winter: 58.6 MW



Dominion Transmission Zone: Supplemental Magruder Substation – Upgrade TX#1

Need Number: DOM-2023-0037

Process Stage: Solutions Meeting 12/13/2023

Proposed Solution:

Install a 115kV circuit switcher, high side switch and any associated transmission equipment and bus work needed to facilitate the transformer installation.

Estimated Project Cost: \$0.764M

Alternatives Considered:

None – this is upgrade work at an existing substation

Projected In-service Date: 12/31/2024

Project Status: Conceptual

Model: 2027 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2023-0047

Process Stage: Solution Meeting 11/16/2023

Previously Presented: Need Meeting 8/17/2023

Project Driver: Customer Service

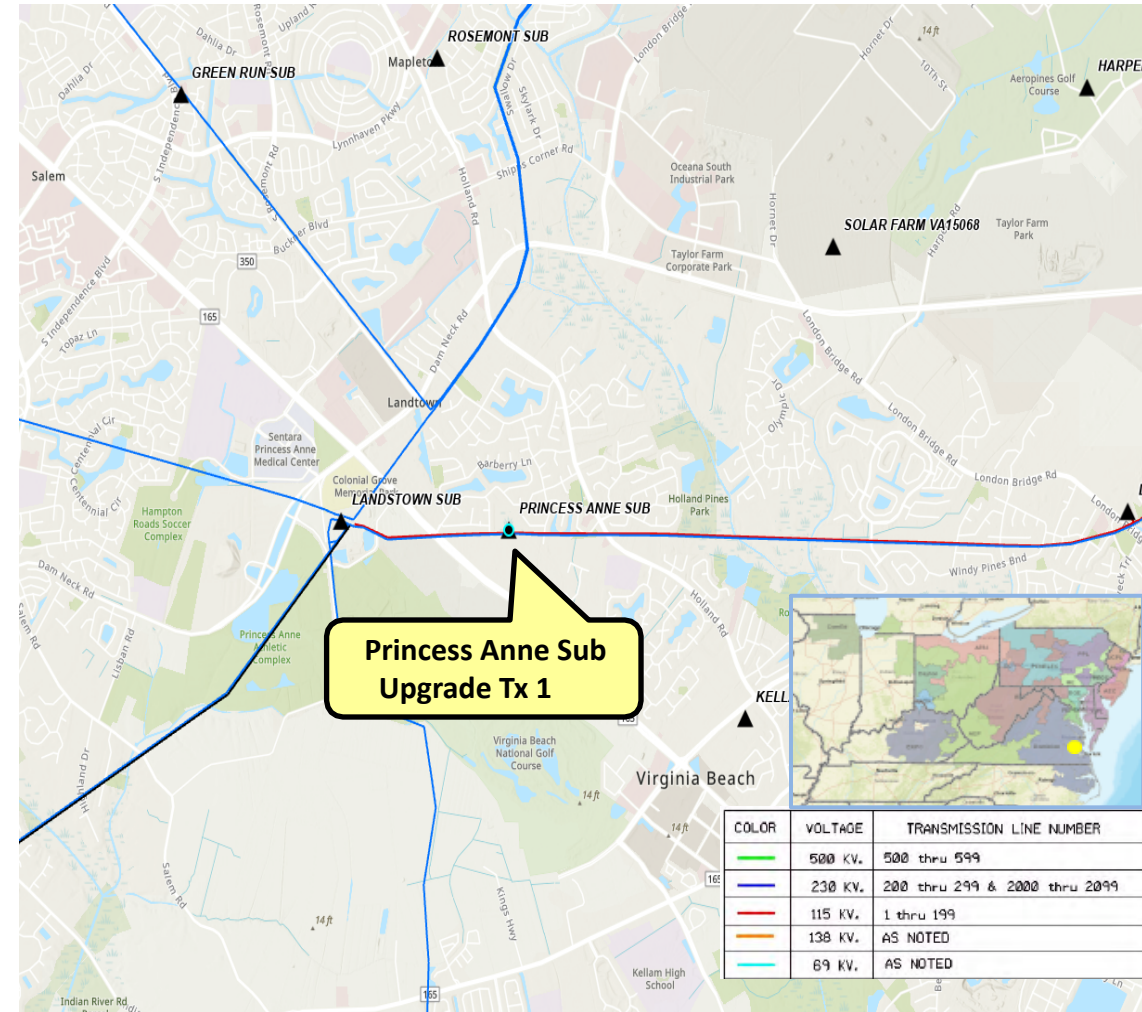
Specific Assumption References:

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

Problem Statement:

DEV has submitted a delivery point request to upgrade 115/34.5kV transformer #1 at Princess Anne Substation in Virginia Beach, VA. The upgrade is being driven by new customer load. The total load is under 100 MW. The customer requests service by December 30, 2024.

Initial In-Service Load	Projected 2035 Load
Summer: 28.8 MW	Summer: 31.8 MW
Winter: 20.7 MW	Winter: 23.7 MW



Dominion Transmission Zone: Supplemental Princess Anne Substation – Upgrade TX#1

Need Number: DOM-2023-0047

Process Stage: Solutions Meeting 11/16/2023

Proposed Solution:

Install a 115kV circuit switcher, high side switch, wave trap and any associated transmission equipment and bus work needed for transformer upgrade.

Estimated Project Cost: \$0.5 M

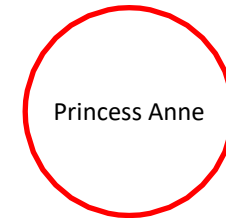
Alternatives Considered:

None – this is upgrade work at an existing substation

Projected In-service Date: 12/30/2024

Project Status: Conceptual

Model: 2027 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

11/06/2023 – V1 – Original version posted to pjm.com.