

# SRRTEP Committee Southern Dominion Supplemental Projects

August 17, 2023

# 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 Customer Load Request

**Need Number:** DOM-2023-0047

**Process Stage:** Need Meeting 08/17/2023

**Project Driver:** Customer Service

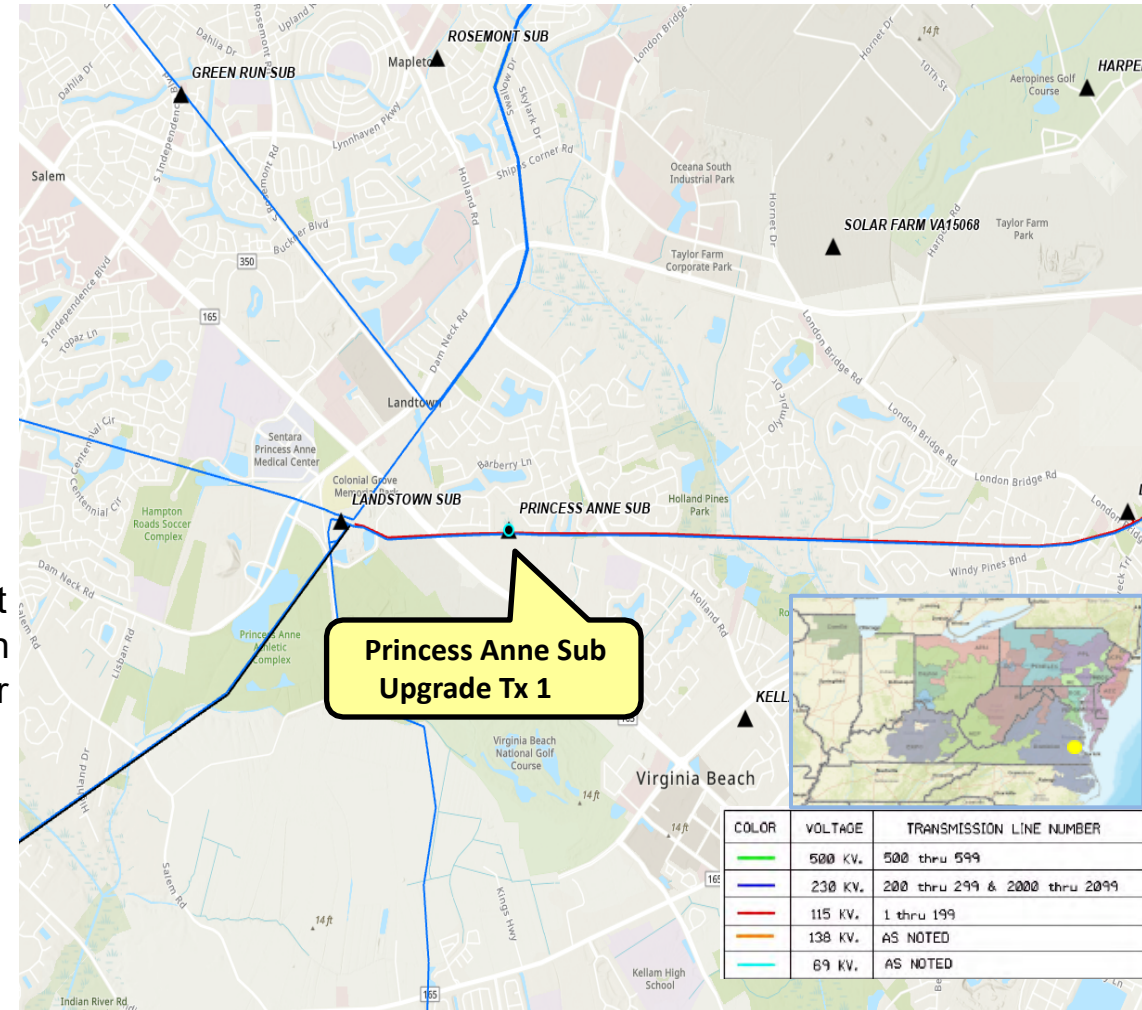
**Specific Assumption References:**

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 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



# 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-2023-0036

**Process Stage:** Solution Meeting 08/17/2023

**Previously Presented:** Need Meeting 07/20/2023

**Project Driver:** Customer Service

**Specific Assumption References:**

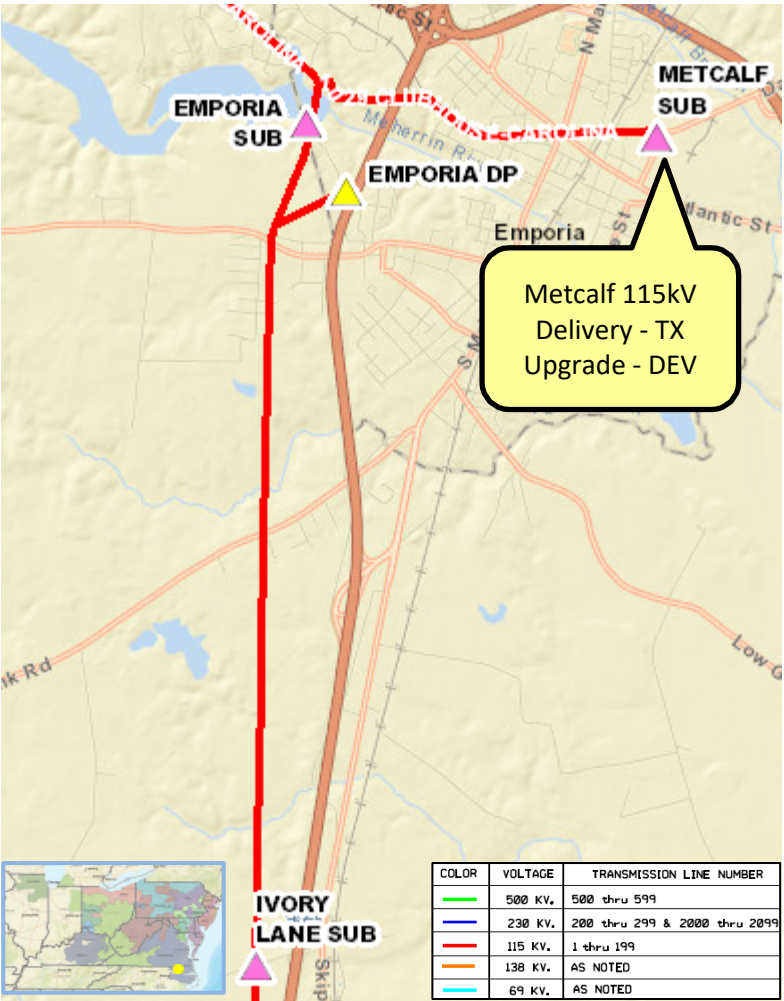
Customer load request will be evaluated per Dominion’s Facility Interconnection Requirements Document and Dominion’s Transmission Planning Criteria.

**Problem Statement:**

DEV Distribution has submitted a delivery point (DP) request to upgrade TX #1 at Metcalf Substation in Greensville County, VA. The new transformer is needed because the existing one is 52 years old and has a low THA rating.

Requested in-service date is 12/31/2024.

Initial In-Service Load	Projected 2028 Load
Summer: 7.7 MW	Summer: 8 MW
Winter: 9.9 MW	Winter: 10.3 MW



# Dominion Transmission Zone: Supplemental Metcalf 115kV Delivery – TX Upgrade - DEV

**Need Number:** DOM-2023-0036

**Process Stage:** Solution Meeting 08/17/2023

**Proposed Solution:**

Replace the fuse on the high side with a 1200A, 25kAIC circuit switcher, install any high side equipment to accommodate the installation of the new transformer.

**Estimated Project Cost:** \$0.62M

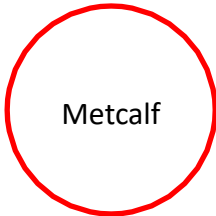
**Alternatives Considered:**

None, the work is on the 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-2023-0041

**Process Stage:** Solution Meeting 08/17/2023

**Previously Presented:** Need Meeting 07/20/2023

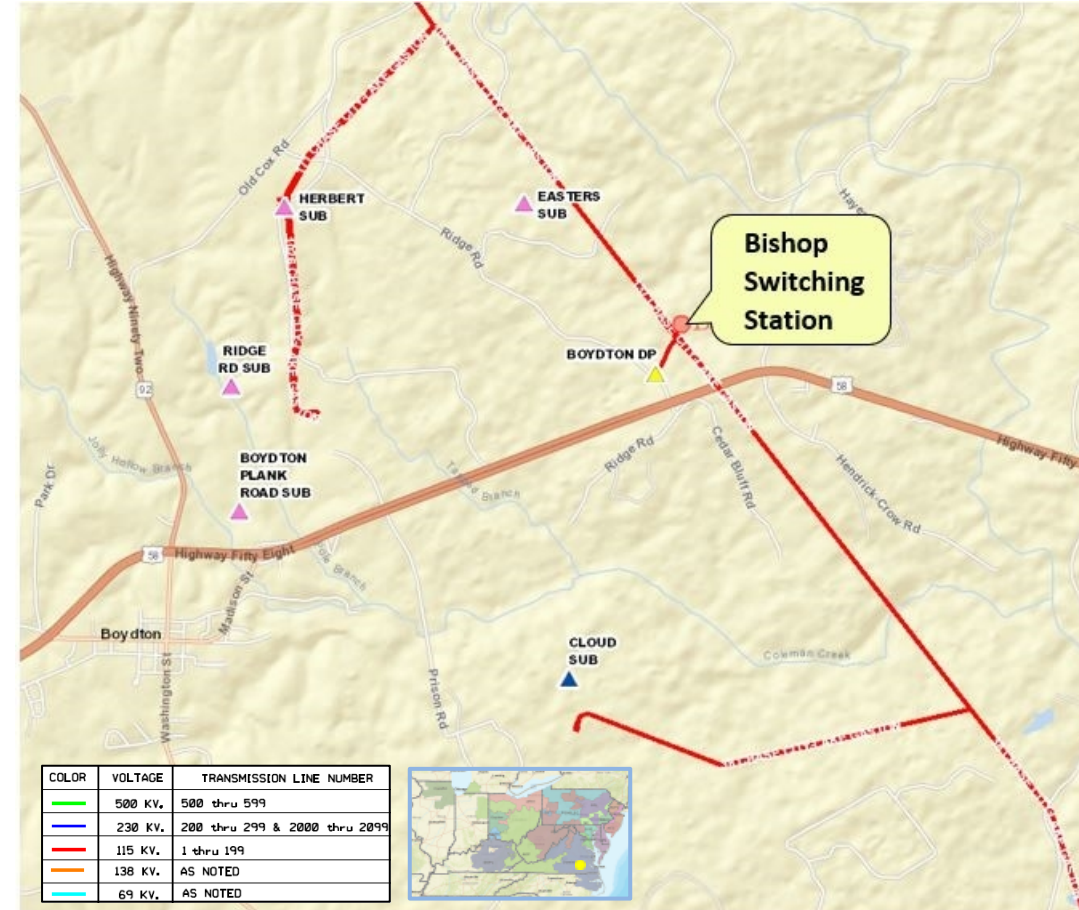
**Project Driver:** Customer Service

**Specific Assumption References:**

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

**Problem Statement:**

ODEC on behalf of Mecklenburg Electric Coop (MEC) has submitted a delivery point (DP) request to serve a Data Center load at Mecklenburg County, VA. Final load is 48 MW, and the requested in-service date is 01/01/2025.



# Dominion Transmission Zone: Supplemental Bishop Sub – 115kV Delivery – MEC

**Need Number:** DOM-2023-0041

**Process Stage:** Solution Meeting 08/17/2023

**Proposed Solution:**

Construct a new substation by cutting and extending Line #137 (Kerr Dam – Ridge Road) to the proposed Bishop 115kV Substation. The final build-out includes 6-breaker ring bus and two 115 kV feeds to the customer. Customer will be responsible for paying for any excess transmission or substation equipment above a tap-line.

**Estimated Project Cost:** \$15.0 M (Total)

Transmission Line	\$2.5M
115kV Substation	\$12.5M

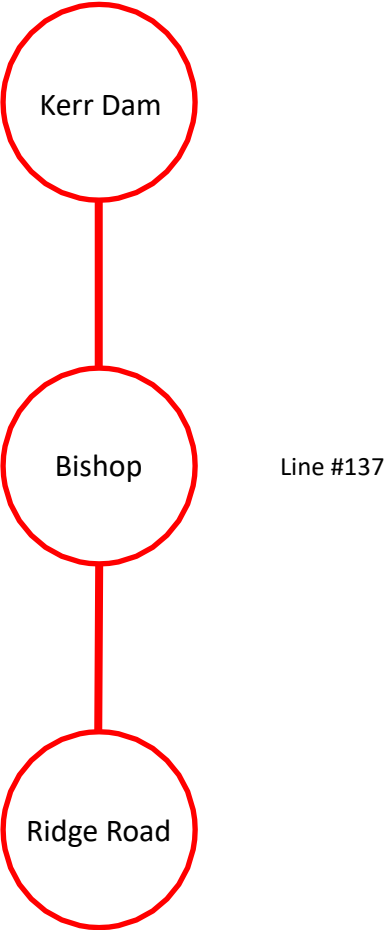
**Alternatives Considered:**

None, the location is adjacent to the existing transmission line.

**Projected In-service Date:** 01/01/2025

**Project Status:** Conceptual

**Model:** RTEP 2027





# 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

08/07/2023 – V1 – Original version posted to pjm.com.