

# Dominion Supplemental Projects

Transmission Expansion Advisory  
Committee  
February 8, 2022

# Supplemental Project Cancellations

# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** NA (s0131)

**Process Stage:** Cancellation Meeting 02/08/2022, Initial TEAC Meeting 06/05/2008

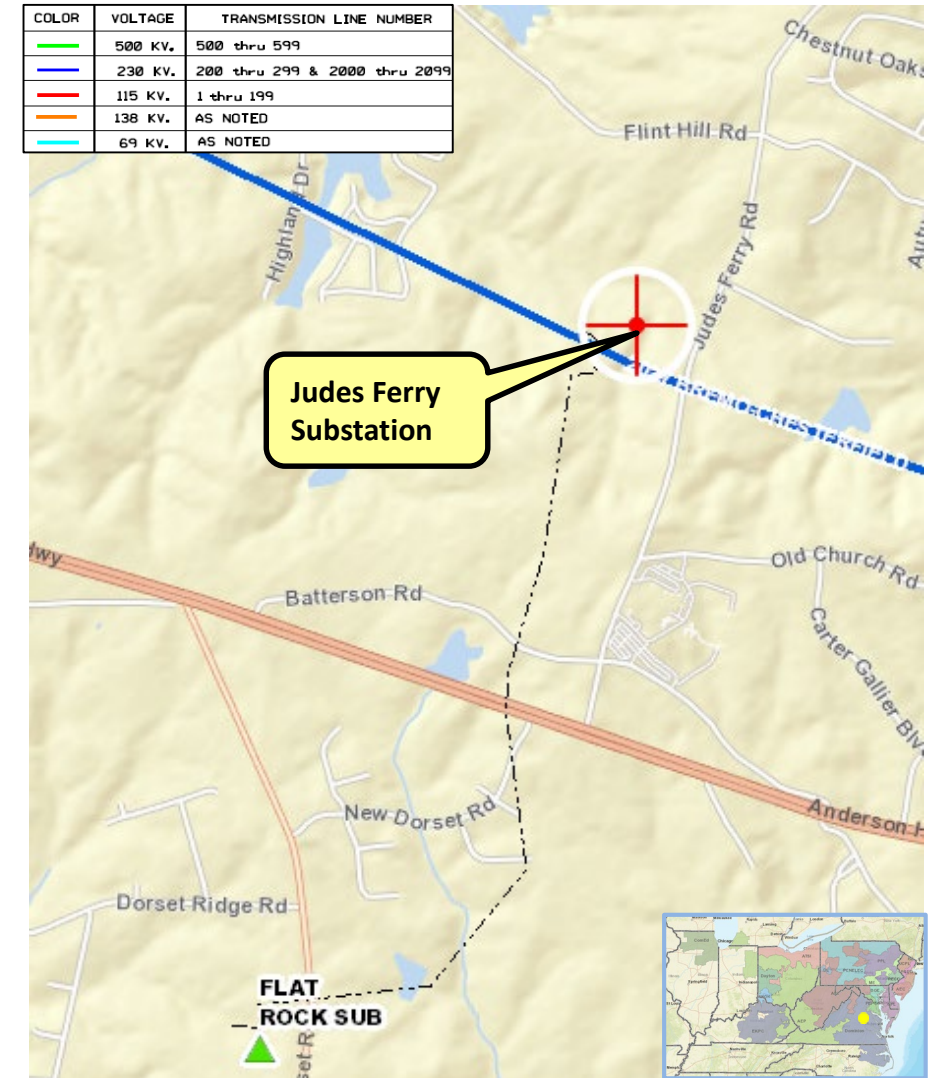
**Project Driver:** Customer Service

## 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 no longer has the need to construct a new substation (Judes Ferry SUB) which would have been located on 230kV line #2027 adjacent to Judes Ferry road in Powhatan County. This is due to load not growing in the area as anticipated.



# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2021-0056

**Process Stage:** **Cancellation Meeting** 02/08/2022, Original Need Meeting 07/13/2021

**Project Driver:** Customer Service

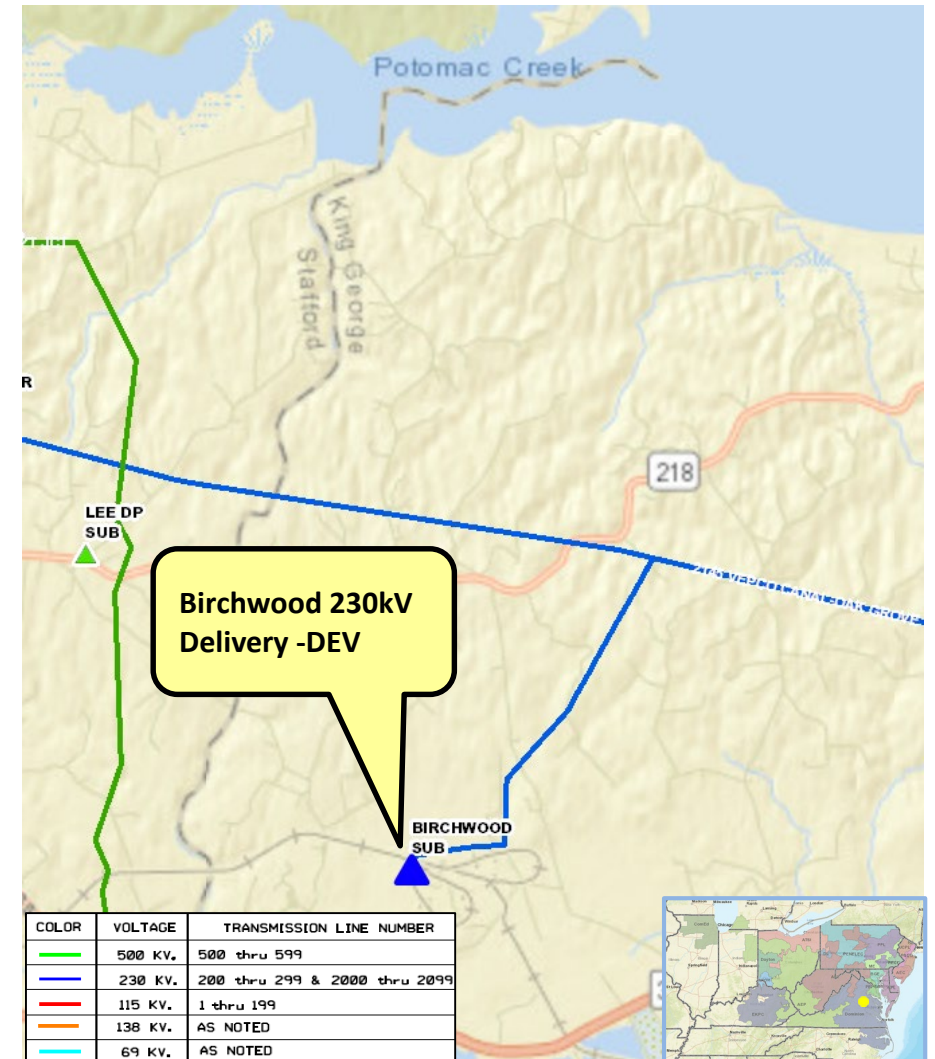
**Specific Assumption References:**

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

**Problem Statement:**

DEV Distribution has cancelled a DP Request to install a distribution transformer at Birchwood Substation due to lack of the expected load growth (32 MVA block load addition) in the area. The requested in-service date was 11/30/2022. The original need slide was presented on 07/13/2021.

Initial In-Service Load	Projected 2026 Load
Summer: 5.0 MW	Summer: 32.0 MW



# 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-2022-0004

**Process Stage:** Need Meeting 02/08/2022

**Project Driver:** Equipment Material Condition, Performance and Risk

## Specific Assumption References:

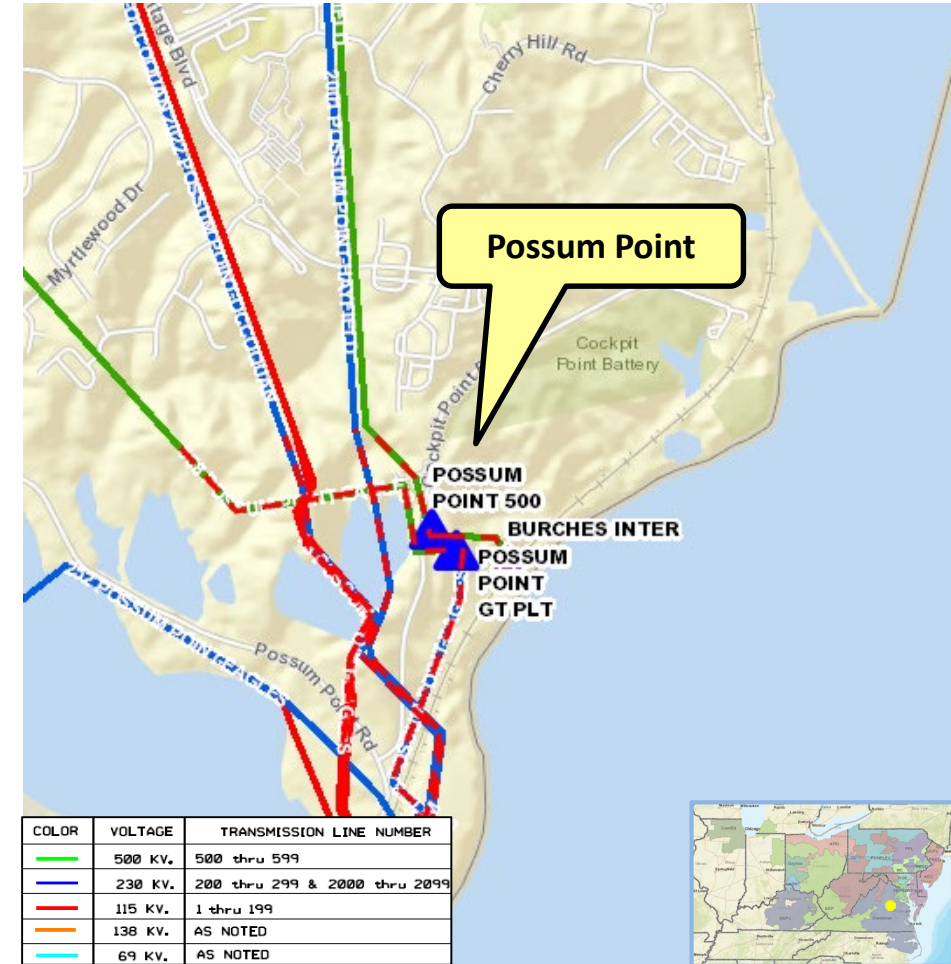
See details on Equipment Material Condition, Performance and Risk in Dominion's Planning Assumptions presented in December 2021.

## Problem Statement:

Dominion Energy has identified a need to replace four 500kV live tank breakers (561T571, 568T571, H1T568 & H1T560) and eight disconnect switches (56075, 56078, H178, H175, 56875, 56878, 57178 & 57175) at Possum Point Substation. These breakers and switches were manufactured in 1992 and are at end of life. The legacy live tank breakers have a history of component failures including external free standing CTs, external resistors and grading capacitors. No internal breaker condition monitoring is available with these type of breakers.

Other Possum Point station deficiencies include:

- Bus #1 relay protection has electromechanical relays that are no longer being supported.
- Arresters are the latest standard for 500kV terminations in the station and have not been installed on Line #560.
- The 500kV breaker panels do not have the latest standard requirements.



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

**Need Number:** DOM-2022-0005

**Process Stage:** Need Meeting 02/08/2022

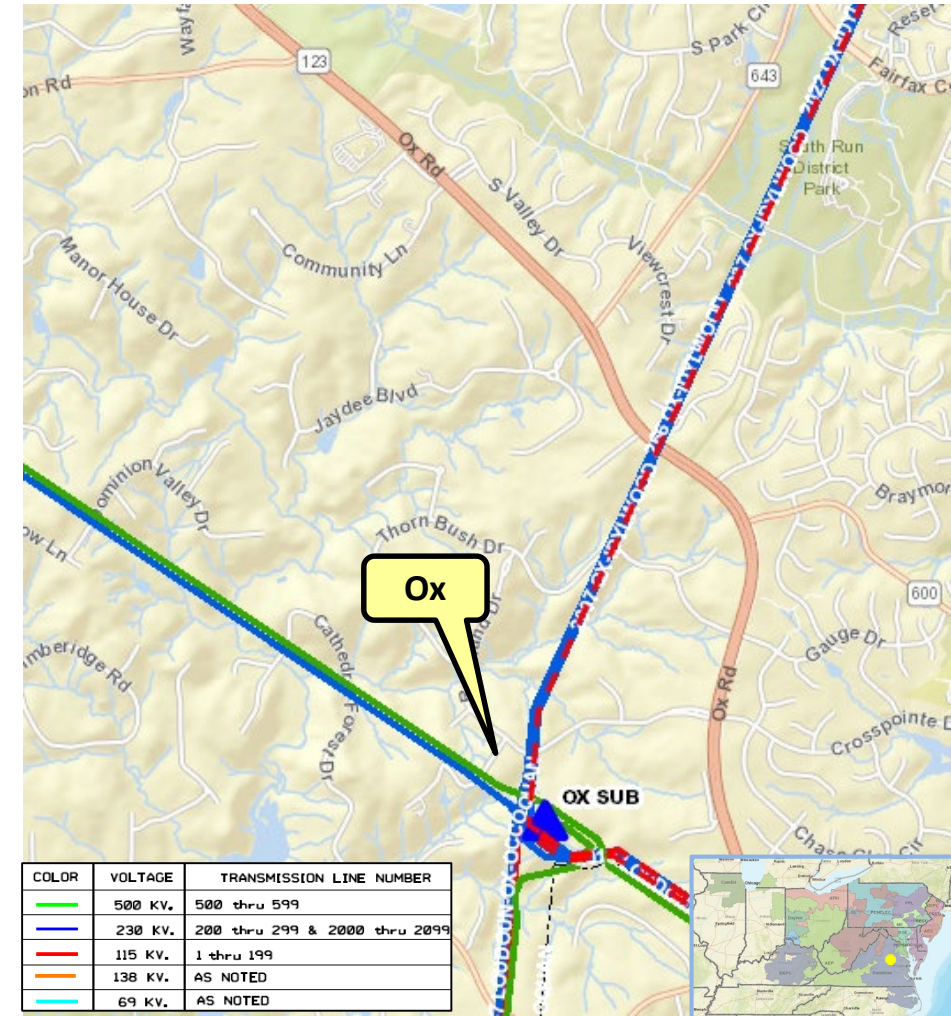
**Project Driver:** Equipment Material Condition, Performance and Risk

## Specific Assumption References:

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

## Problem Statement:

Dominion Energy has identified a need to replace a live tank breaker 561T571 at Ox Substation. This breaker was built in 1998 and is at end of life. The legacy live tank breakers have a history of component failures including external free standing CTs, external resistors and grading capacitors. No internal breaker condition monitoring is available with these type of breakers.



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

**Need Number:** DOM-2022-0006

**Process Stage:** Need Meeting 02/08/2022

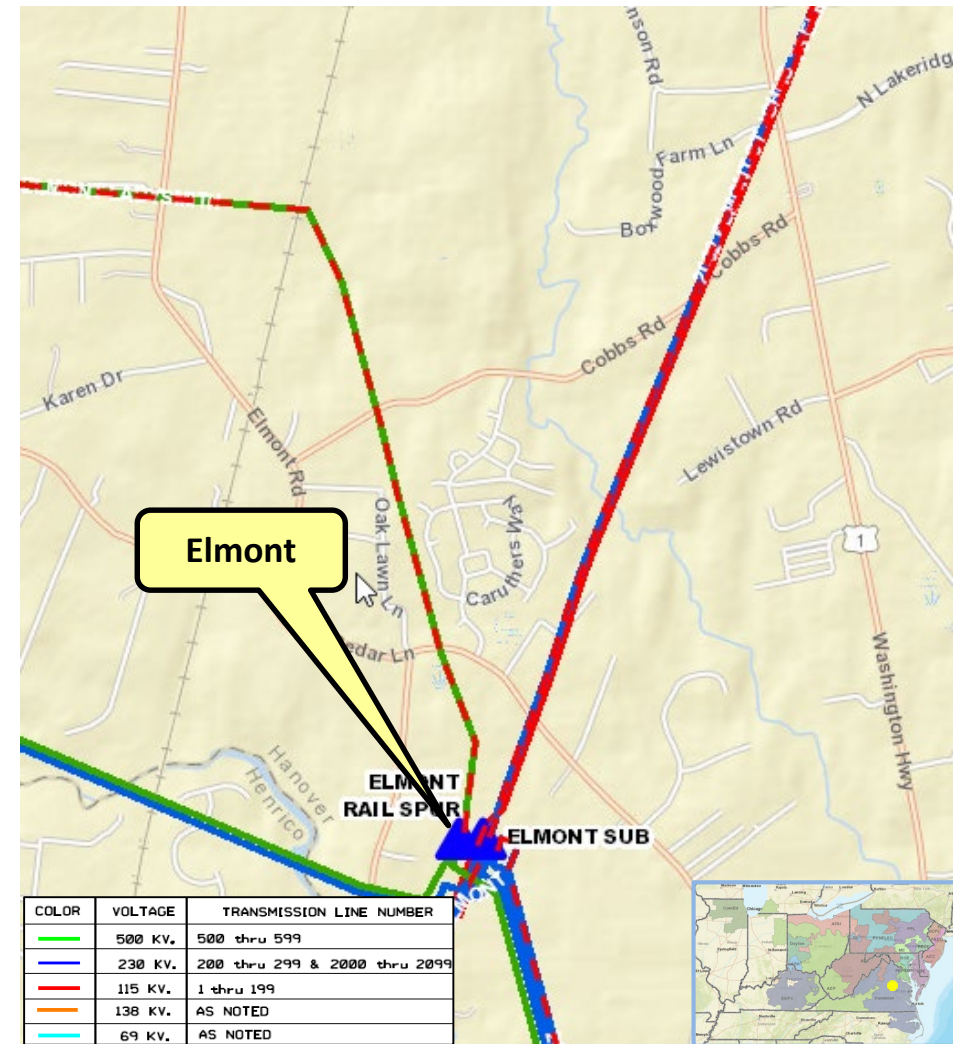
**Project Driver:** Equipment Material Condition, Performance and Risk

## **Specific Assumption References:**

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

## **Problem Statement:**

Dominion Energy has identified a need to replace one 500kV live tank breaker (H1T553) and two disconnect switches (H198 & 55397) at Elmont Substation. These breakers and switches were manufactured in 1992 and are at end of life. The legacy live tank breakers have a history of component failures including external free standing CTs, external resistors and grading capacitors. No internal breaker condition monitoring is available with these type of breakers.





# 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

01/28/2022 – V1 – Original version posted to pjm.com