

# Dominion Supplemental Projects

Transmission Expansion Advisory  
Committee  
June 4, 2024

# 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-2024-0036

**Process Stage:** Need Meeting 06/04/2024

**Project Driver:** Customer Service

**Specific Assumption References:**

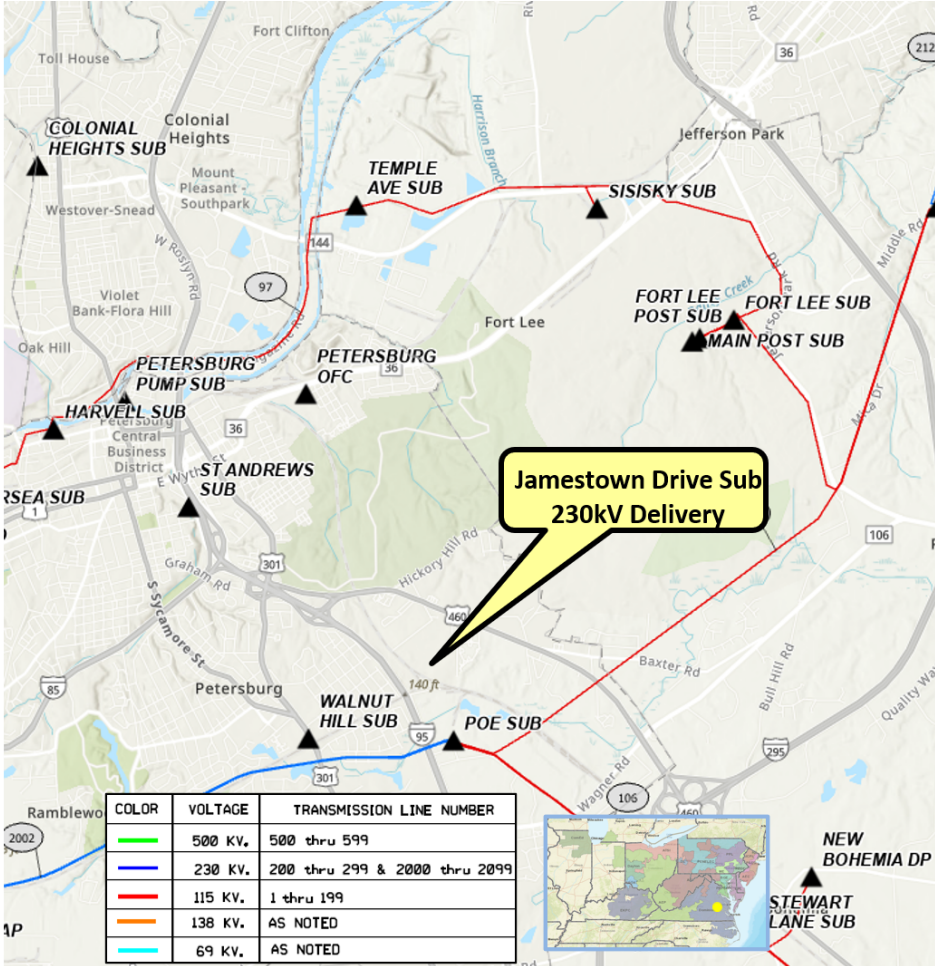
Customer load request will be evaluated per Dominion’s Facility Interconnection Requirements Document and Dominion’s Transmission Planning Criteria.

**Problem Statement:**

DEV Distribution has submitted a DP Request for a new substation (Jamestown Drive) to serve a data center in Petersburg, VA with a total load in excess of 100 MW. The requested in-service date is 12/31/2028.

Initial In-Service Load: Summer: 70.0 MW, Winter: 120.0 MW

Projected 2029 Load: Summer: 300.0 MW, Winter: 300.0 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-2024-0001

**Process Stage:** Solution Meeting 06/04/2024

**Previously Presented:** Need Meeting 02/06/2024

**Project Driver:** Customer Service

**Specific Assumption References:**

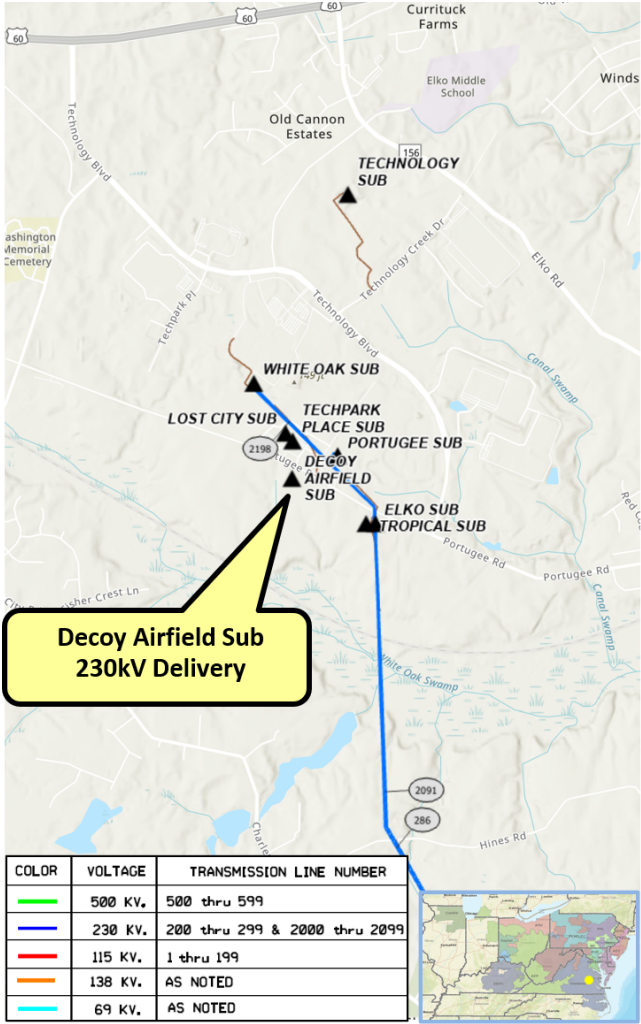
Customer load request will be evaluated per Dominion’s Facility Interconnection Requirements Document and Dominion’s Transmission Planning Criteria.

**Problem Statement:**

DEV Distribution has submitted a DP Request for a new substation (Decoy Airfield) to serve a data center in Henrico County with a total load in excess of 100 MW. The requested in-service date is 01/01/2026.

Initial In-Service Load: Summer: 288.0 MW, Winter: 288.0 MW

Projected 2028 Load: Summer: 288.0 MW, Winter: 288.0 MW



# Dominion Transmission Zone: Supplemental Decoy Airfield Substation

**Need Number:** DOM-2024-0001

**Process Stage:** Solutions Meeting 06/04/2024

**Proposed Solution:**

Connect the new substation by cutting existing 230kV Line 2280 (Techpark Place to White Oak) to proposed Decoy Substation. Lines to terminate in a 230kV four-breaker ring arrangement with an ultimate arrangement of a six-breaker ring.

**Estimated Project Cost:** \$12 M

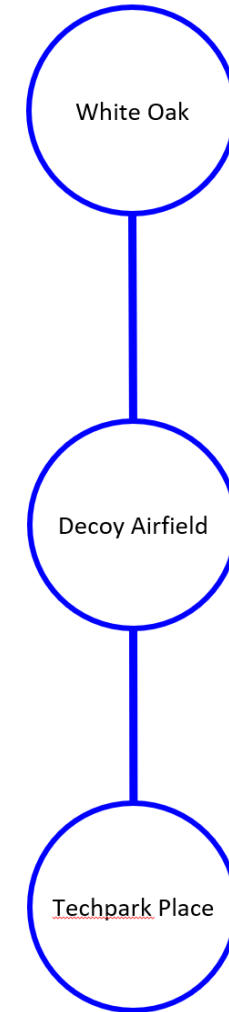
**Alternatives Considered:**

None, substation is adjacent to existing transmission line.

**Projected In-service Date:** 01/01/2026

**Project Status:** Engineering

**Model:** 2028 RTEP



# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2019-0021

**Process Stage:** Solution Meeting 06/04/2024

**Previously Presented:** Need Meeting 04/30/2024

**Project Driver:** Customer Service

## Specific Assumption References:

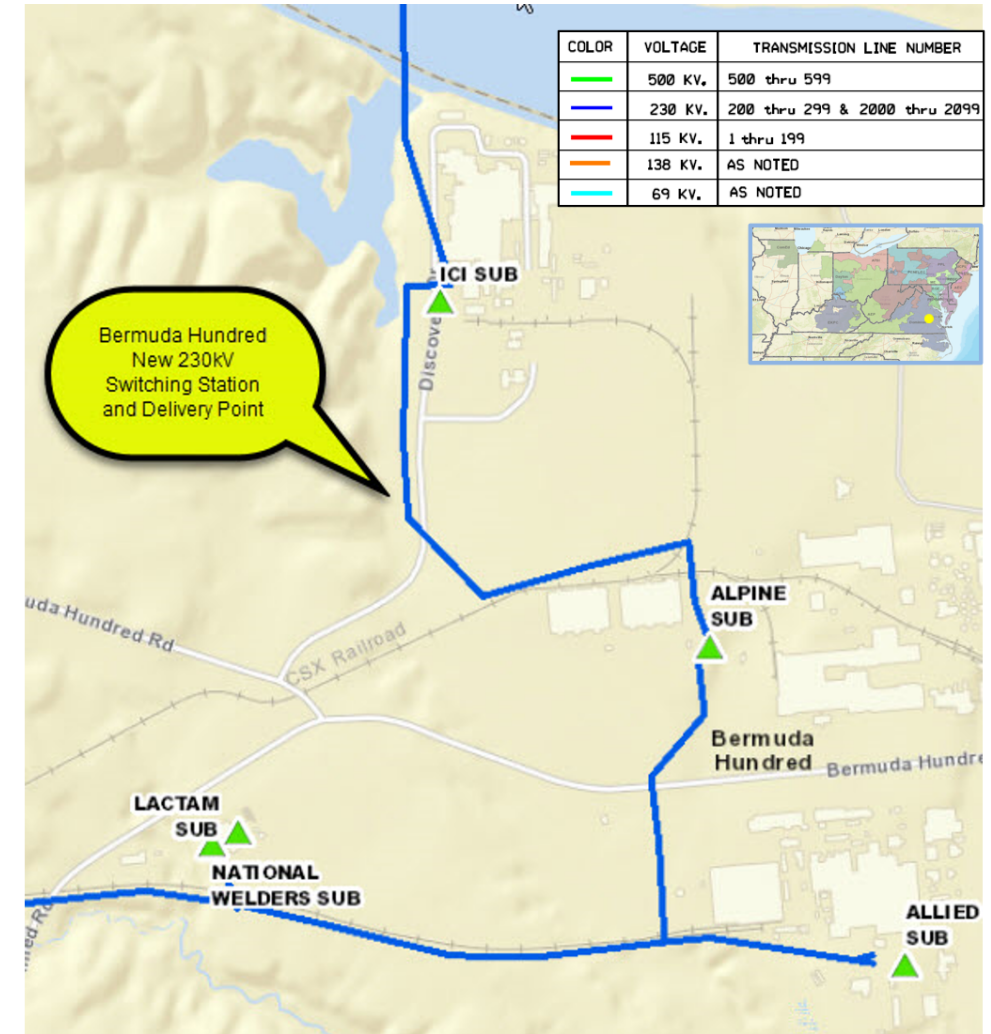
Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

## Problem Statement:

DEV Distribution has submitted a DP Request for a new substation (Bermuda Hundred) to serve a data center in Chesterfield County with a total load in excess of 100 MW. The requested in-service date is Q4 2026.

Initial In-Service Load: Summer: 100.0 MW, Winter: 0.0 MW

Projected 2028 Load: Summer: 300.0 MW, Winter: 300.0 MW



# Dominion Transmission Zone: Supplemental Bermuda Substation

**Need Number:** DOM-2019-0021

**Process Stage:** Solutions Meeting 06/04/2024

**Proposed Solution:**

Tap 230kV Line #2050 and create a 6 breaker ring bus.

**Estimated Project Cost:** \$15 M

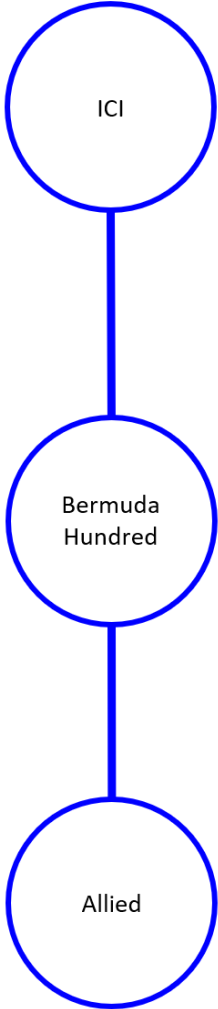
**Alternatives Considered:**

None - on customer owned property.

**Projected In-service Date:** 12/31/2024

**Project Status:** Engineering

**Model:** 2028 RTEP





# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2024-0022

**Process Stage:** Solution Meeting 06/04/2024

**Previously Presented:** Need Meeting 04/30/2024

**Project Driver:** Customer Service

**Specific Assumption References:**

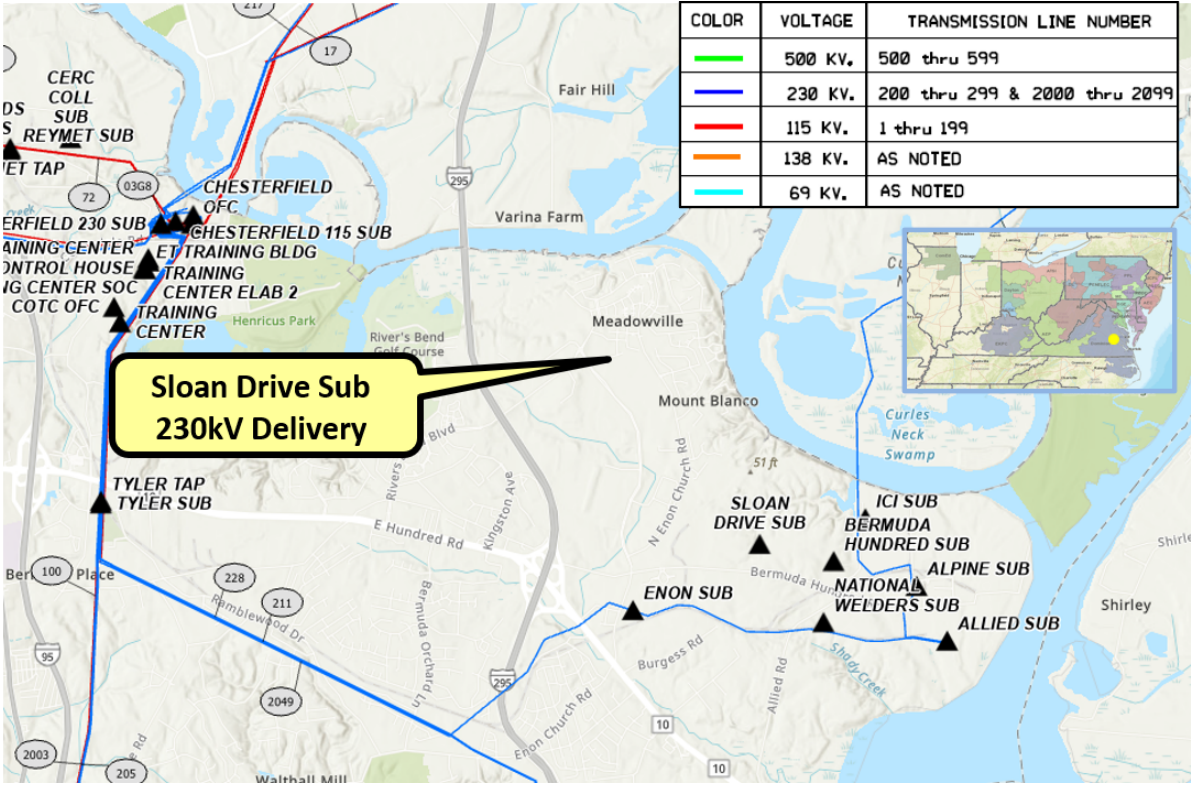
Customer load request will be evaluated per Dominion’s Facility Interconnection Requirements Document and Dominion’s Transmission Planning Criteria.

**Problem Statement:**

DEV Distribution has submitted a DP Request for a new substation (Sloan Drive) to serve a data center in Chesterfield County with a total load in excess of 100 MW. The requested in-service date is Q2 2027.

Initial In-Service Load: Summer: 100.0 MW, Winter: 0.0 MW

Projected 2029 Load: Summer: 100.0 MW, Winter: 100.0 MW



# Dominion Transmission Zone: Supplemental Sloan Drive Substation

**Need Number:** DOM-2024-0022

**Process Stage:** Solutions Meeting 06/04/2024

## Proposed Solution:

**Sloan Drive Substation:** Substation will have two 230kV line feeds from future Bermuda Hundred Substation terminating in a 6 breaker ring bus.. Estimated Cost: \$20 M

**Lines 2366 and 2367:** Proposed 230kV Lines 2366 and 2367 will run from future Bermuda Hundred Substation to future Sloan Drive Substation.. Estimated Cost: \$10 M

**Estimated Project Cost:** \$30 M

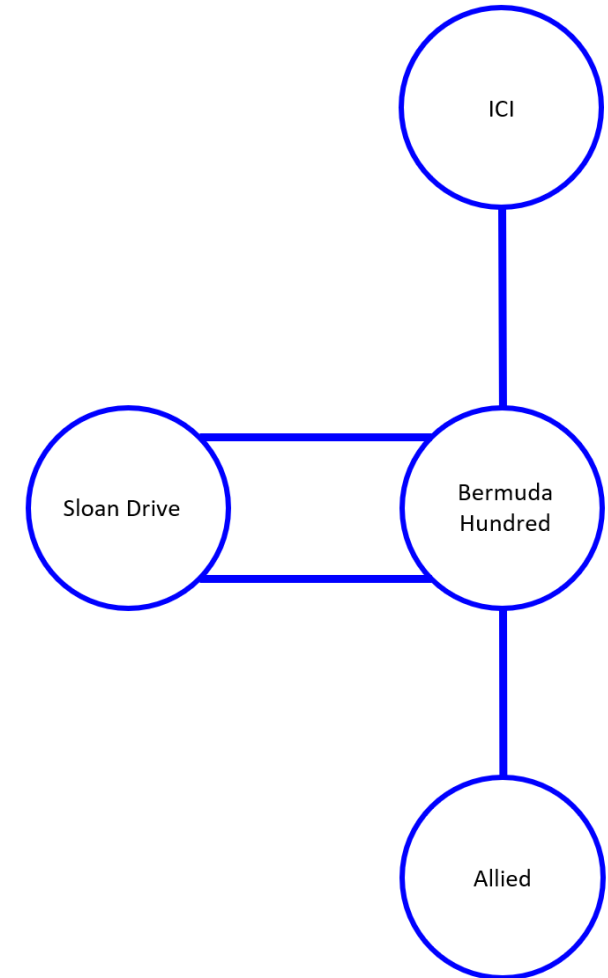
## Alternatives Considered:

None - on customer owned property.

**Projected In-service Date:** 12/31/2027

**Project Status:** Engineering

**Model:** 2028 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

05/23/2024– V1 – Original version posted to pjm.com