

# Solutions

# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2025-0032

**Process Stage:** Solutions Meeting 02/03/2026

**Previously Presented:** Need Meeting 10/08/2025

**Project Driver:** Customer Service

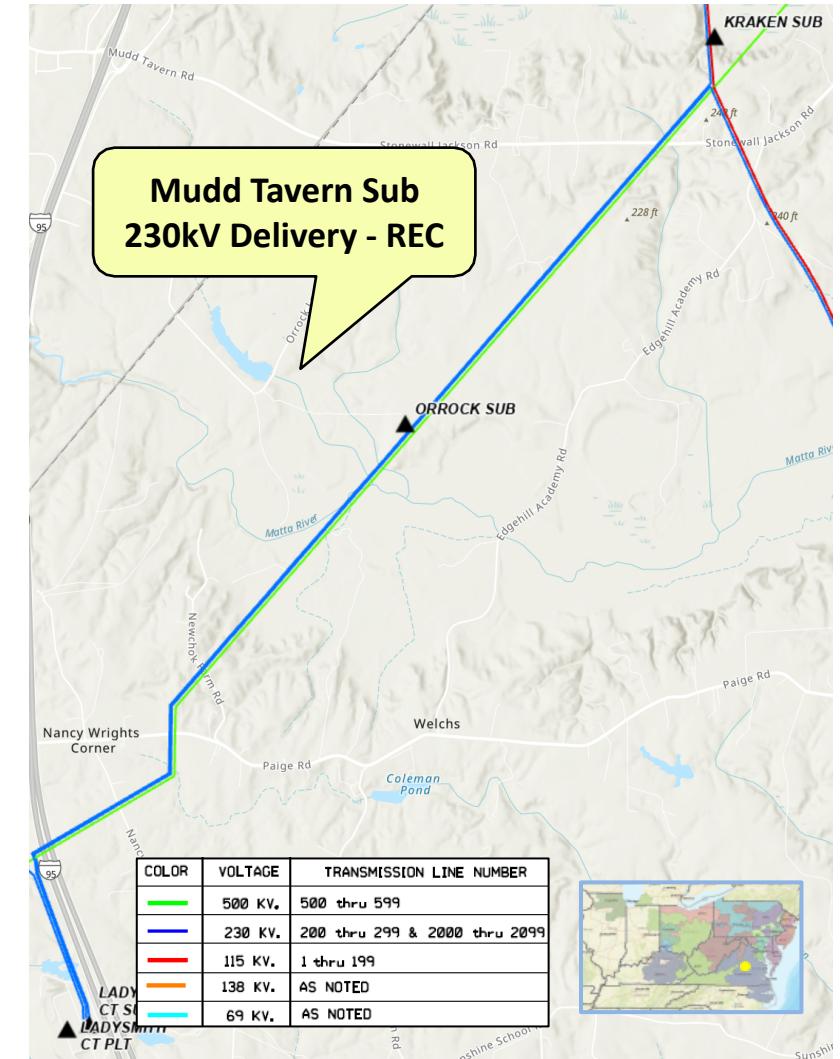
## Specific Assumption References:

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

## Problem Statement:

Rappahannock Electric Cooperative (REC) has submitted a DP Request for a new substation (Mudd Tavern) to serve a data center in Caroline County with a total expected capacity of 300 MW.

The requested in-service date is 08/01/2029.



# Dominion Transmission Zone: Supplemental Mudd Tavern 230kV Delivery - REC

**Need Number:** DOM-2025-0032

**Process Stage:** Solutions Meeting 02/03/2026

**Project Driver:** Customer Service

## Proposed Solution:

Extend two 230 kV lines approximately one mile from Orrock(Matta) to Mudd Tavern. Mudd Tavern Substation will be constructed with a 230 kV ring-bus, configured for an ultimate arrangement of six breakers, with four breakers installed initially.

**Estimated Project Cost:** \$ 26M (Total)

Transmission Line – \$6M

230kV Substation – \$20M

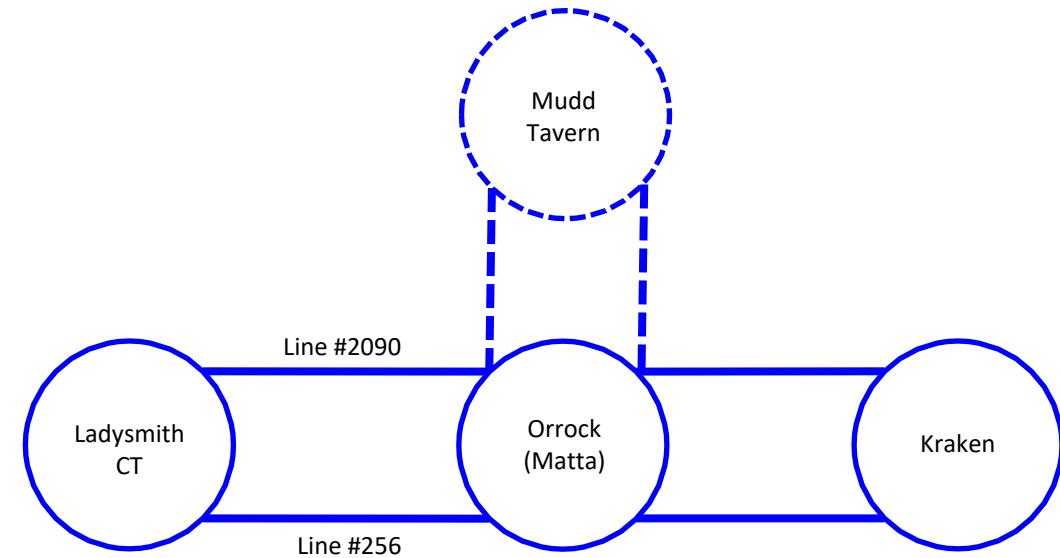
## Alternatives Considered:

No feasible alternatives.

**Projected In-service Date:** 03/01/2029

**Project Status:** Conceptual

**Model:** 2029 RTEP



# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2024-0036

**Process Stage:** Solution Meeting 02/03/2026

**Previously Presented:** Need Meeting 06/04/2024

**Project Driver:** Customer Service

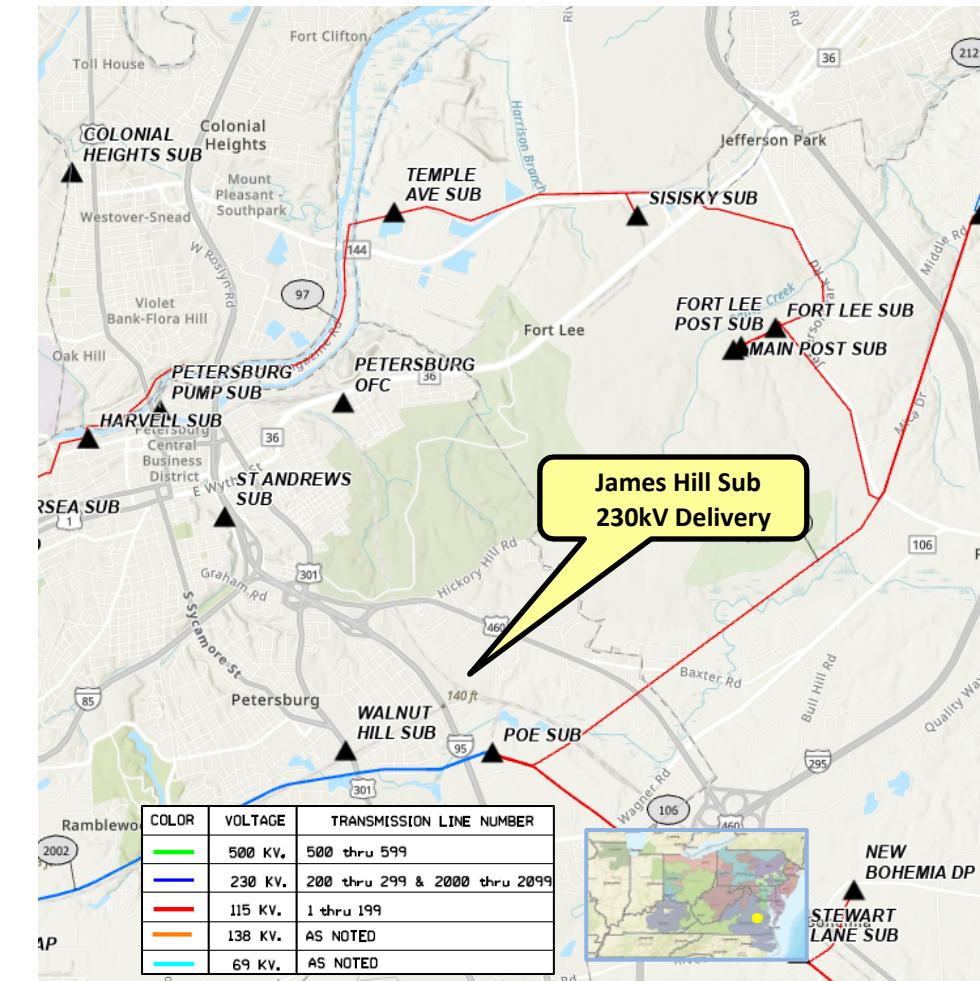
## Specific Assumption References:

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 (**James Hill 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.



# Dominion Transmission Zone: Supplemental James Hill 230kV Delivery - DEV

**Need Number:** DOM-2024-0036

**Process Stage:** Solution Meeting 02/03/2026

**Project Driver:** Customer Service

## Proposed Solution:

Construct James Hill substation with a 230 kV four-breaker ring arrangement. Cut and extend 230 kV Line #2003 (Chesterfield – Poe) approximately 1.0 miles in and out of James Hill substation on double-circuit structures.

**Estimated Project Cost:** \$26M (Total)

Transmission Line – \$6M

230kV Substation – \$20M

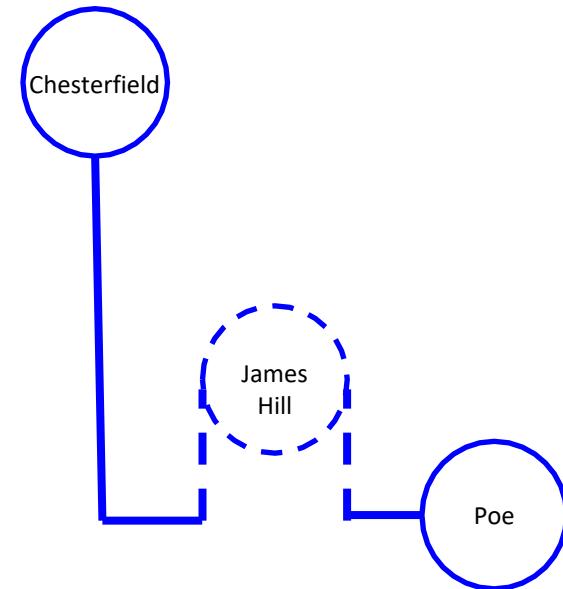
## Alternatives Considered:

Constructing two new lines from Poe Substation to James Hill Substation was considered, however, there is currently a project to install a six-breaker 230kV ring bus at Poe (b4000.334-.336) and there is no room for further expansion to accommodate additional line terminals. Even if this alternative was feasible, the expected cost would be higher.

**Projected In-service Date:** 12/30/2031

**Project Status:** Conceptual

**Model:** 2030 RTEP



# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2025-0051

**Process Stage:** Solution Meeting 02/03/2026

**Previously Presented:** Need Meeting 11/04/2025

**Project Driver:** Customer Service

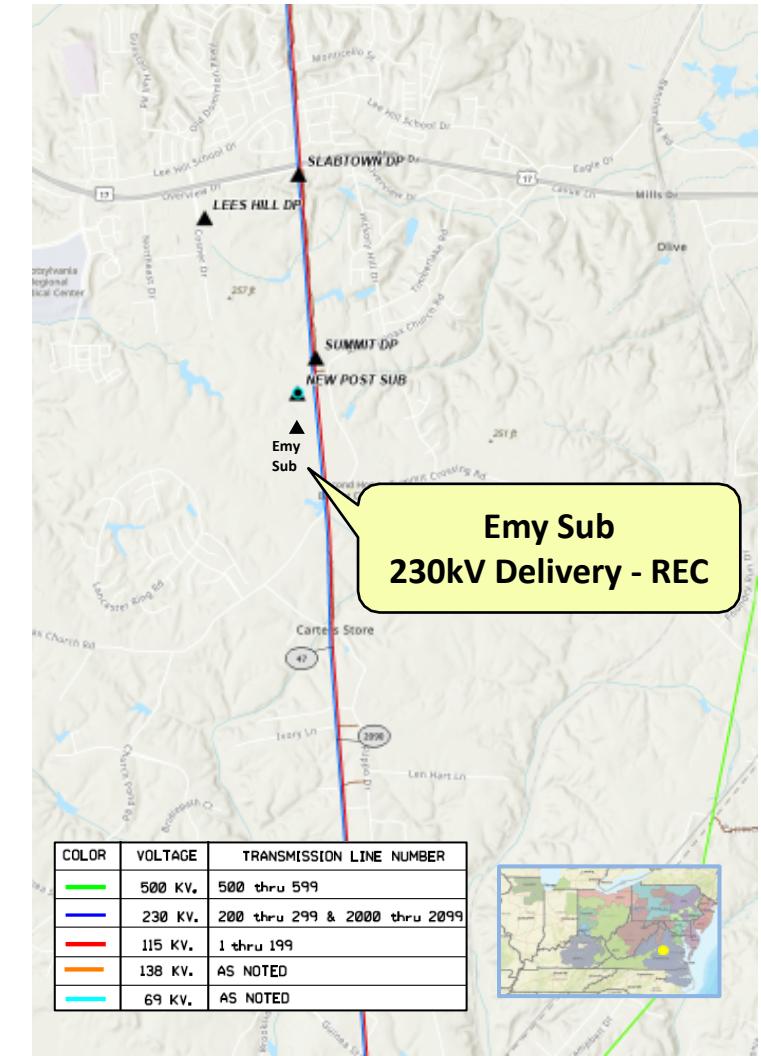
## Specific Assumption References:

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

## Problem Statement:

Rappahannock Electric Cooperative (REC) has submitted a DP Request for a new substation (Emy) to serve a data center in Spotsylvania County, VA with a total expected capacity of 212 MW.

The requested in-service date is 07/05/2027.



# Dominion Transmission Zone: Supplemental Emy 230kV Delivery - REC

**Need Number:** DOM-2025-0051

**Process Stage:** Solution Meeting 02/03/2026

**Project Driver:** Customer Service

## Proposed Solution:

Extend two new 230 kV lines from New Post to Emy. Add two new 230 kV breakers at New Post substation to accommodate the new lines. Cut two 230 kV lines into Emy from the South. The lines cut will be future Lines #2404 (Tributary – New Post) and #2372 (Kraken – New Post).

**Estimated Project Cost:** \$26M (Total)

Transmission Line – \$6M

230kV Substation – \$20M

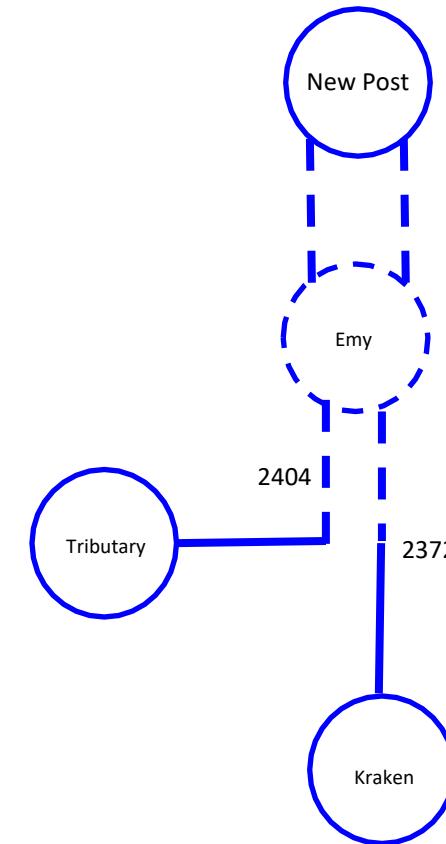
## Alternatives Considered:

None. The new station is on customer owned land and adjacent to existing transmission lines.

**Projected In-service Date:** 05/01/2030

**Project Status:** Conceptual

**Model:** 2030 RTEP



# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2025-0083

**Process Stage:** Solution Meeting 02/03/2026

**Previously Presented:** Need Meeting 12/08/2025

**Project Driver:** Customer Service

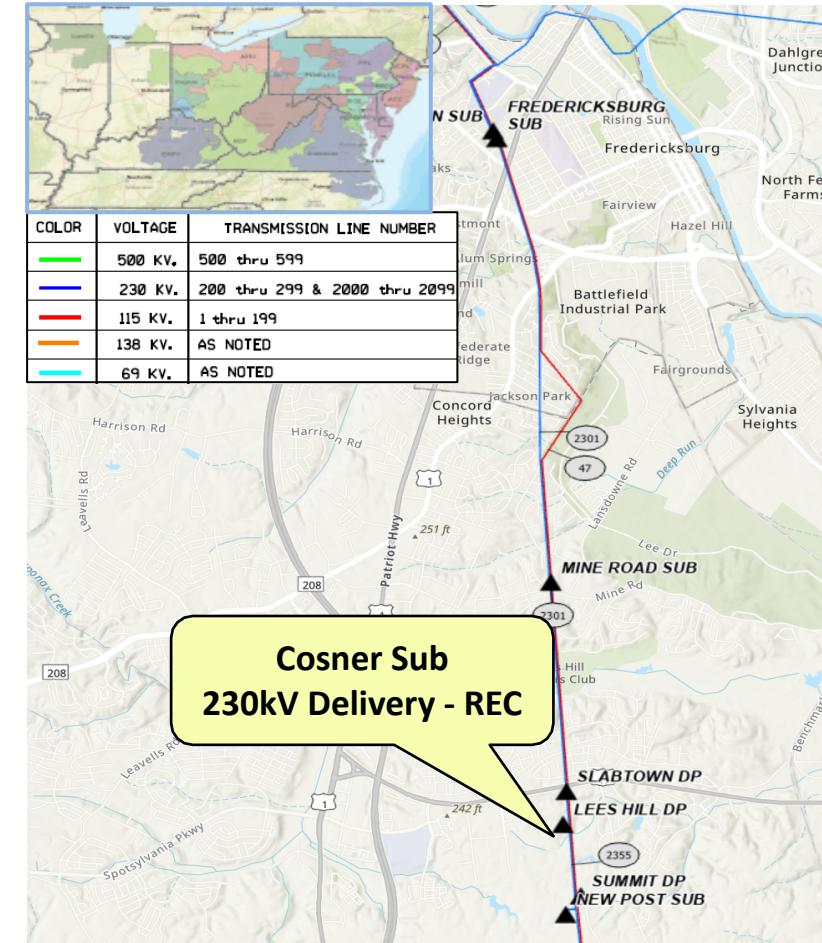
## Specific Assumption References:

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

## Problem Statement:

Rappahannock Electric Cooperative (REC) has submitted a DP Request for a new substation (Cosner) to serve a data center in Spotsylvania County, VA with a total expected capacity of 300 MW.

The requested in-service date is 12/01/2027.



# Dominion Transmission Zone: Supplemental Cosner 230kV Delivery - REC

**Need Number:** DOM-2025-0083

**Process Stage:** Solution Meeting 02/03/2026

**Project Driver:** Customer Service

## Proposed Solution:

Cut double-circuit New Post to Lee's Hill lines south of Cosner and Lee's Hill and terminate at Cosner, removing the existing line terminations at Lee's Hill. Extend two new 230 kV lines from Lee's Hill to Cosner.

**Estimated Project Cost:** \$28M (Total)

Transmission Line – \$6M

230kV Substation – \$20M

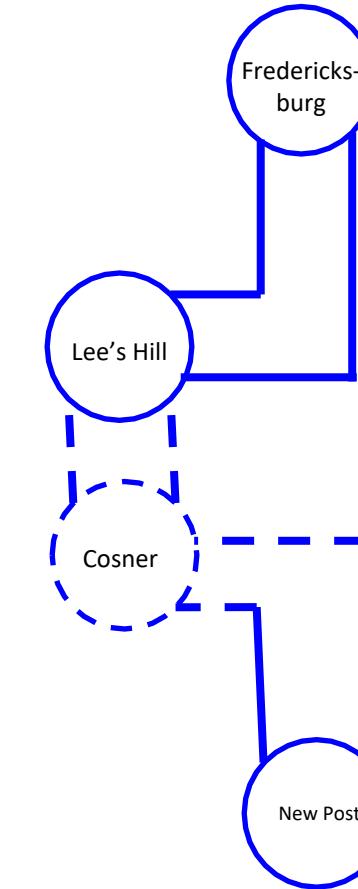
## Alternatives Considered:

None. The new station is on customer owned land and adjacent to existing transmission lines.

**Projected In-service Date:** 09/30/2030

**Project Status:** Conceptual

**Model:** 2030 RTEP



# Appendix

# High level M-3 Meeting Schedule

	Activity	Timing
	Posting of TO Assumptions Meeting information	20 days before Assumptions Meeting
Assumptions	Stakeholder comments	10 days after Assumptions Meeting
	Activity	Timing
Needs	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

01/23/2026 – V1 – Original version posted to pjm.com