# SRRTEP Committee Southern
# Dominion Supplemental Projects

September 18, 2025

# Needs

# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2025-0019

**Process Stage:** Need Meeting 09/18/2025

**Project Driver:** Customer Service

**Specific Assumption References:**

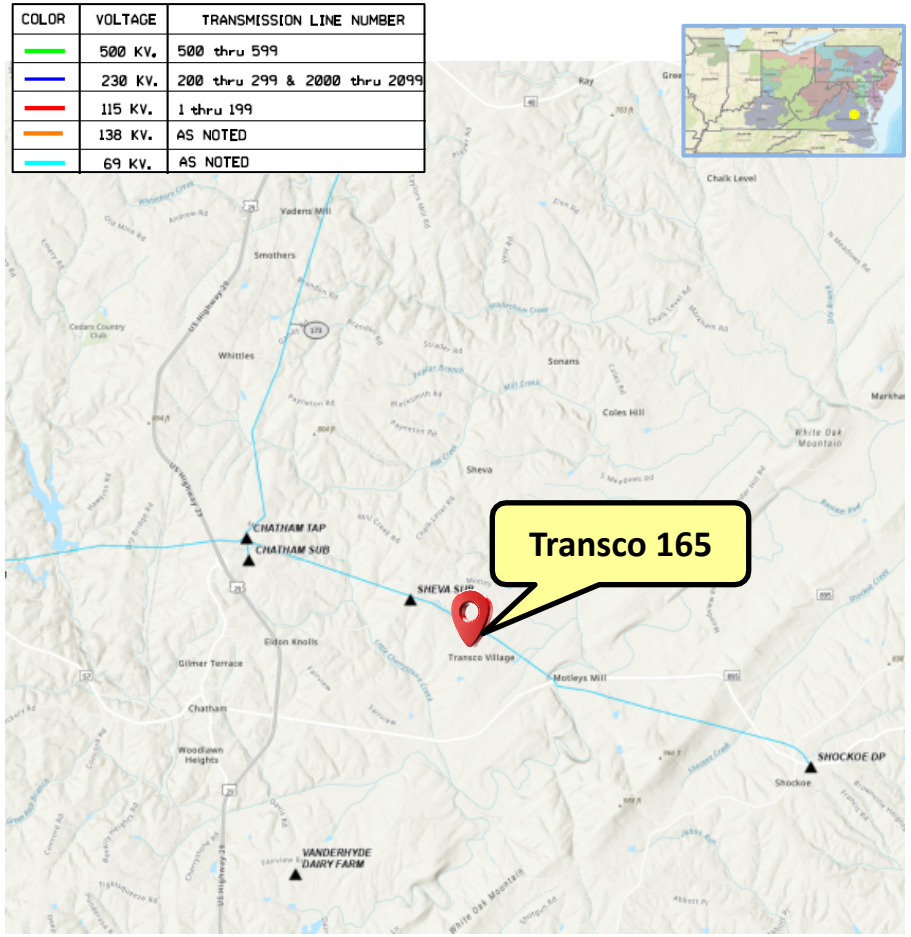
Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

**Problem Statement:**

ODEC on behalf of Mecklenburg Electric Cooperative (MEC) has submitted a delivery point request Transco 165 to serve a new pumping station load in Pittsylvania County.

Point of interconnection will be MEC's Shockoe transmission line adjacent to the Station 166 upgrades. Requested in-service date is 07/30/2027.

| Initial In-Service Load | Projected 2030 Load |
|---|---|
| Summer: 51 MW<br>Winter: 51 MW | Summer: 51 MW<br>Winter: 51 MW |



# Dominion Transmission Zone: Supplemental Customer Load Request

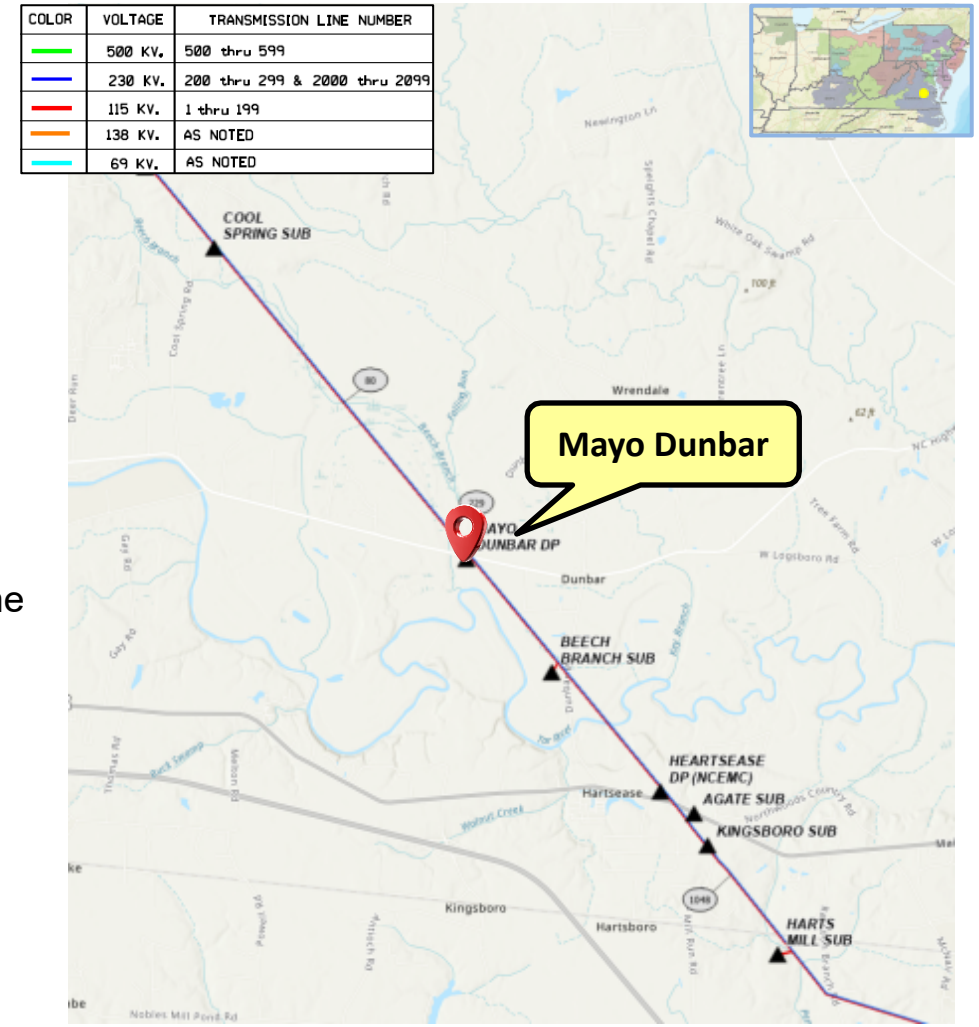
**Need Number:** DOM-2025-0022
**Process Stage:** Need Meeting 09/18/2025
**Project Driver:** Customer Service

**Specific Assumption References:**
Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

**Problem Statement:**

Edgecombe Martin County Electric Membership Corporation (EMC-EMC) has submitted a delivery point modification to move Mayo Dunbar DP station to the adjacent lot for flood mitigation. Mayo Dunbar DP is served by a tap on the 115kV Line #80. EMC-EMC would like to move the 115kV tap location one span over on Line #80 to alleviate interference with new station exit feeders.

| Initial In-Service Load | Projected 2030 Load |
|---|---|
| Summer: 7.6 MW<br>Winter: 7.9 MW | Summer: 8.2 MW<br>Winter: 9.2 MW |



# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2025-0029

**Process Stage:** Need Meeting 09/18/2025

**Project Driver:** Customer Service

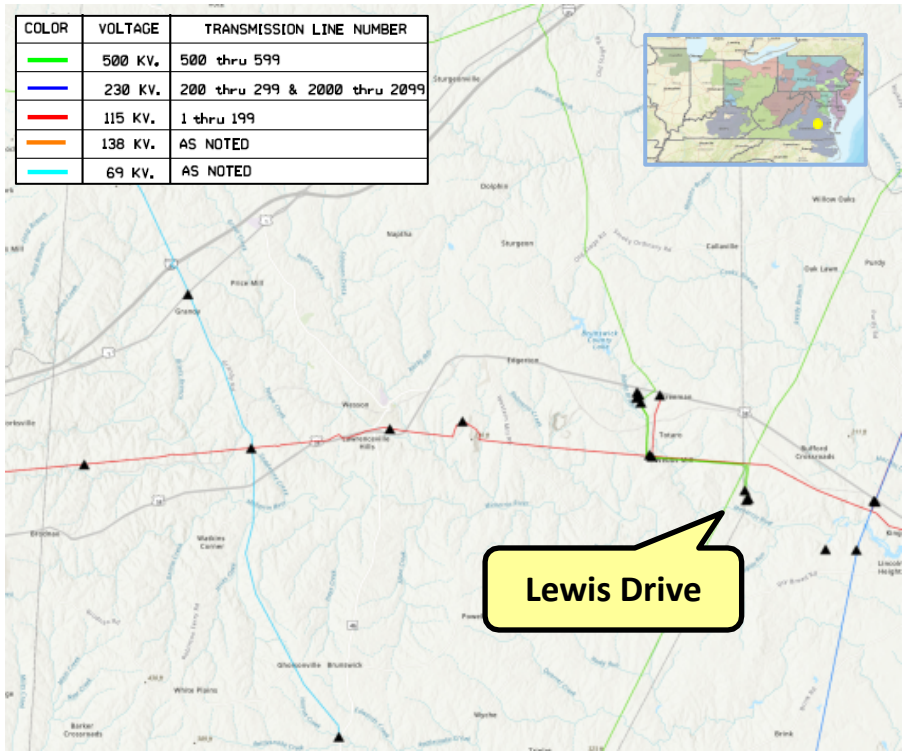
**Specific Assumption References:**

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

**Problem Statement:**

ODEC on behalf of Mecklenburg Electric Cooperative (MEC) has submitted a delivery point request for a new delivery point Lewis Drive to serve a 25 MW LNG customer in Brunswick County, VA. The site is located adjacent to Greensville power plant and Rogers Rd Sub. Requested in-service date is 10/01/2026.

Initial load will be 25MW at the requested target date and will remain the same for the next 10 years.



# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2025-0034
**Process Stage:** Need Meeting 09/18/2025
**Project Driver:** Customer Service

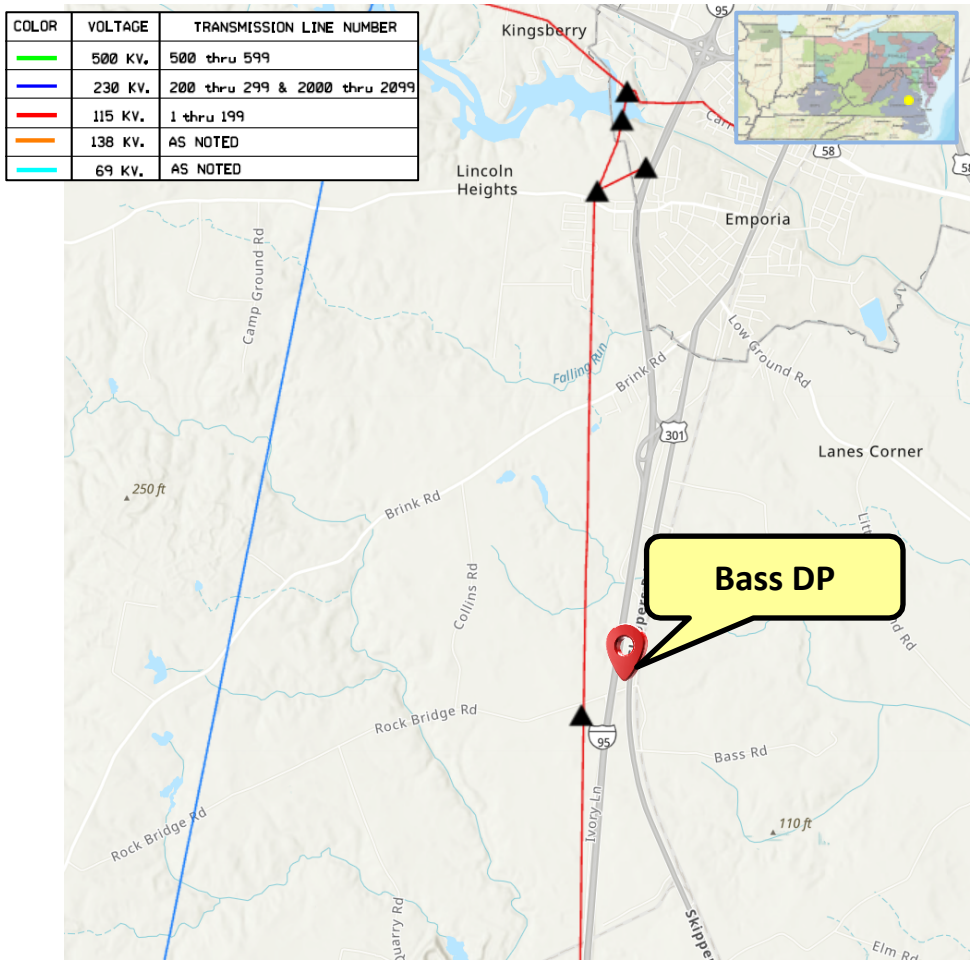
**Specific Assumption References:**

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

**Problem Statement:**

ODEC has submitted a delivery point request on behalf of Mecklenburg Electric Cooperative (MEC) for a new delivery point Bass to serve a motor load customer in Skippers, VA. The site is located in Greensville County at the intersection of Rockbridge Road and Hwy 301 South. The driver for the new delivery is a pipeline station with a 6.5 MVA electric motor. Requested in-service date is 10/01/2025.

| Initial In-Service Load | Projected 2030 Load |
|---|---|
| Summer: 0 MW<br>Winter: 6.5 MW | Summer: 6.5 MW<br>Winter: 6.5 MW |



# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2025-0035
**Process Stage:** Need Meeting 09/18/2025
**Project Driver:** Customer Service

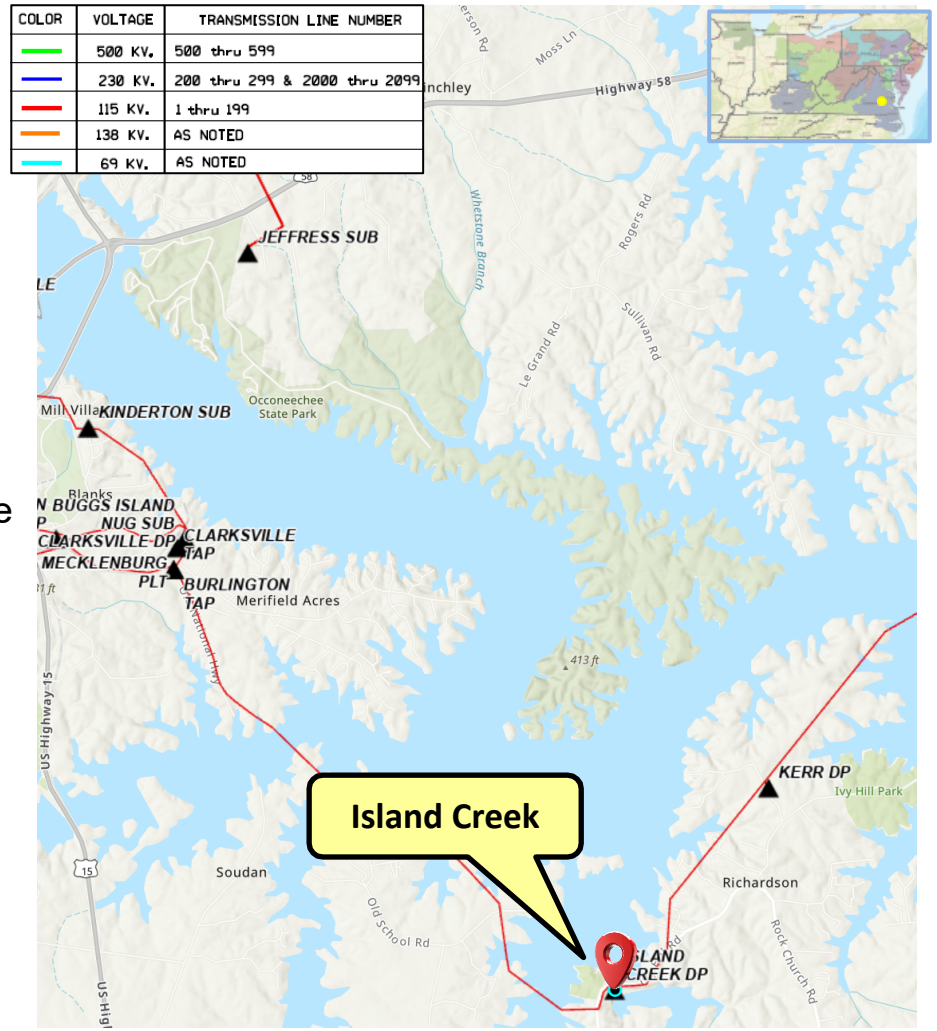
**Specific Assumption References:**

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

**Problem Statement:**

Army Corps of Engineers (ACOE) owns a pumping station at Island Creek DP with one 115/4.16 kV transformer. ACOE asked Dominion Energy to serve 3 – 6 MW of motor load at Island Creek DP and add a second transformer for redundancy.

Dominion is currently serving this DP by a tap on Line #193 near Structure #193/73. Due to the space limitation, the existing station will be retired and a new one will be constructed close to the existing one with two 115/4.16 kV transformers to serve three pumps. Target energization date is February of 2026 based on the DP request.



# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2025-0036
**Process Stage:** Need Meeting 09/18/2025
**Project Driver:** Customer Service

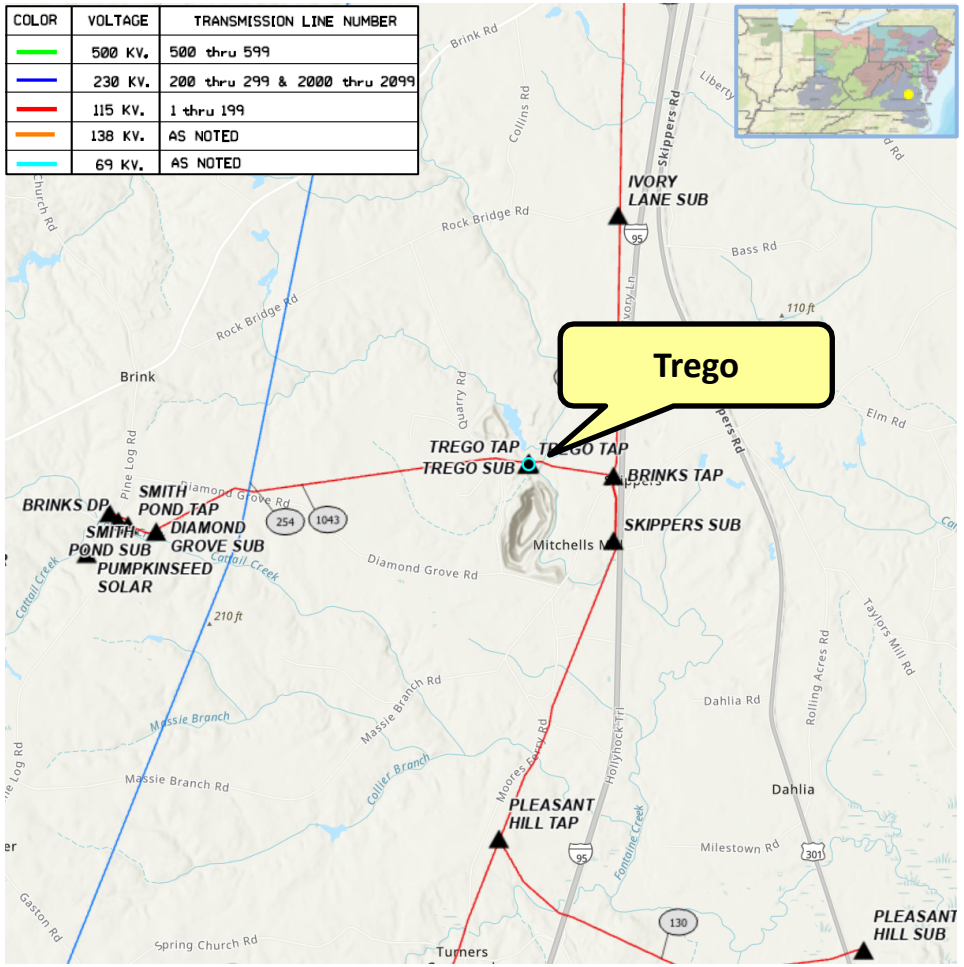
**Specific Assumption References:**

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

**Problem Statement:**

Dominion Energy Distribution has submitted a Delivery Point (DP) Request for the installation of one three-phase 9 MVA, 115/12.5kV transformer to feed Circuit 730 and replacing the existing transformer with a 9 MVA, 115/4.16kV transformer to feed Circuit 831 at Trego Substation with a target energization date in 04/30/2026.

| Initial In-Service Load | Projected 2030 Load |
|---|---|
| Summer: 6.7 MW<br>Winter: 6.8 MW | Summer: 7.6 MW<br>Winter: 7.7 MW |



# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2025-0037

**Process Stage:** Need Meeting 09/18/2025

**Project Driver:** Customer Service

**Specific Assumption References:**

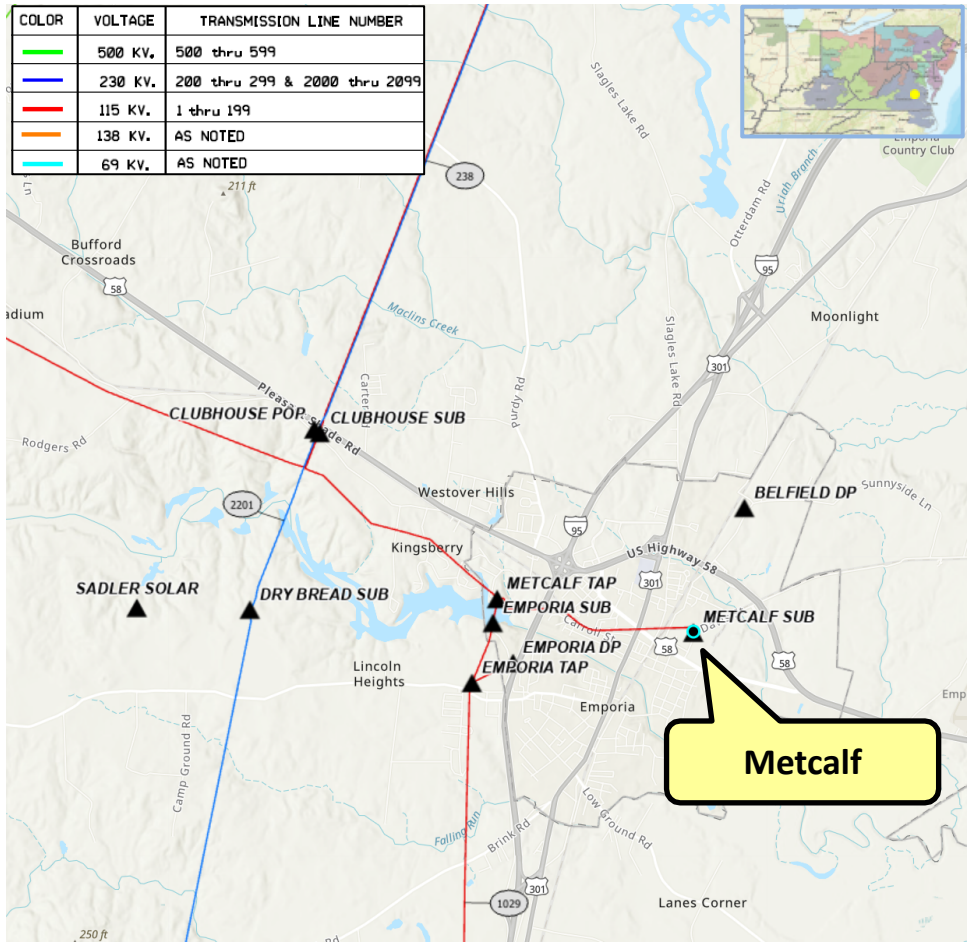
Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

**Problem Statement:**

Dominion Energy Distribution has submitted a Delivery Point (DP) Request for the installation of 2nd 115/13.2kV, 22.4MVA TX at Metcalf substation with a target energization date of 04/30/2027.

The driver for the DP request is that the existing Metcalf TX is a 115/13.2kV 14MVA transformer is identified as a voltage island and it is mobile dependent around the year. For the loss of Metcalf TX #1, customers that are fed by circuit 709 (equals to 9MVA) will experience extended outage until a replacement, or mobile TX is installed.

| Initial In-Service Load | Projected 2030 Load |
|---|---|
| Summer: 7.7 MW<br>Winter: 9.9 MW | Summer: 8.5 MW<br>Winter: 10.9 MW |



# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2025-0038

**Process Stage:** Need Meeting 09/18/2025

**Project Driver:** Customer Service

**Specific Assumption References:**

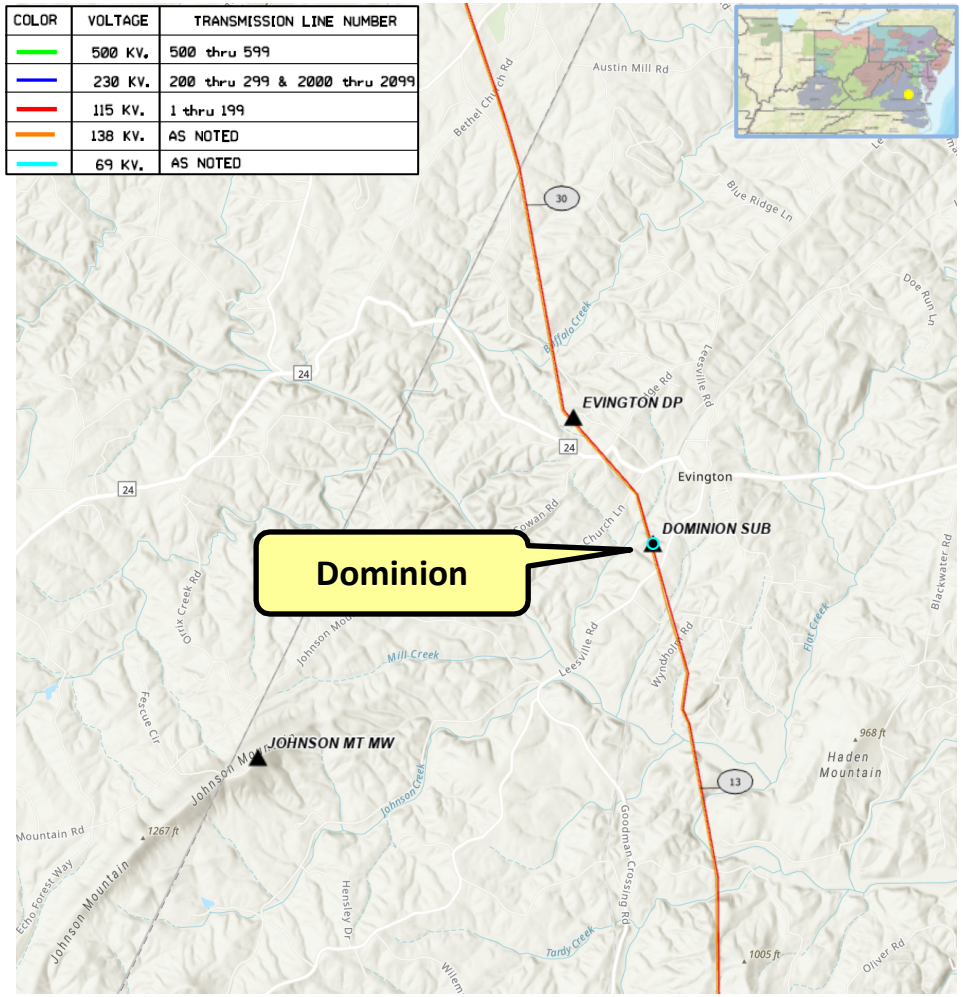
Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

**Problem Statement:**

Dominion Energy Distribution has submitted a Delivery Point (DP) Request for the installation of 2nd 115/36.5kV, 22.4MVA Delta-Wye connected TX at Dominion substation with a target energization date of 12/31/2026.

The driver for the DP request is that the existing Dominion TX#1 is a 115/36.5kV 22.4MVA unit serving roughly 1400 customers and this substation transformer is a voltage island for a majority of the year due to weak circuit ties. For the failure of this transformer, most customers during peak load conditions are subject to an extended outage, 18 to 24 hours, until mobile transformation can be installed to restore service.

| Initial In-Service Load | Projected 2030 Load |
|---|---|
| Summer: 11.6 MW<br>Winter: 13.2 MW | Summer: 14.2 MW<br>Winter: 16.1 MW |



# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2025-0039

**Process Stage:** Need Meeting 09/18/2025

**Project Driver:** Customer Service

**Specific Assumption References:**

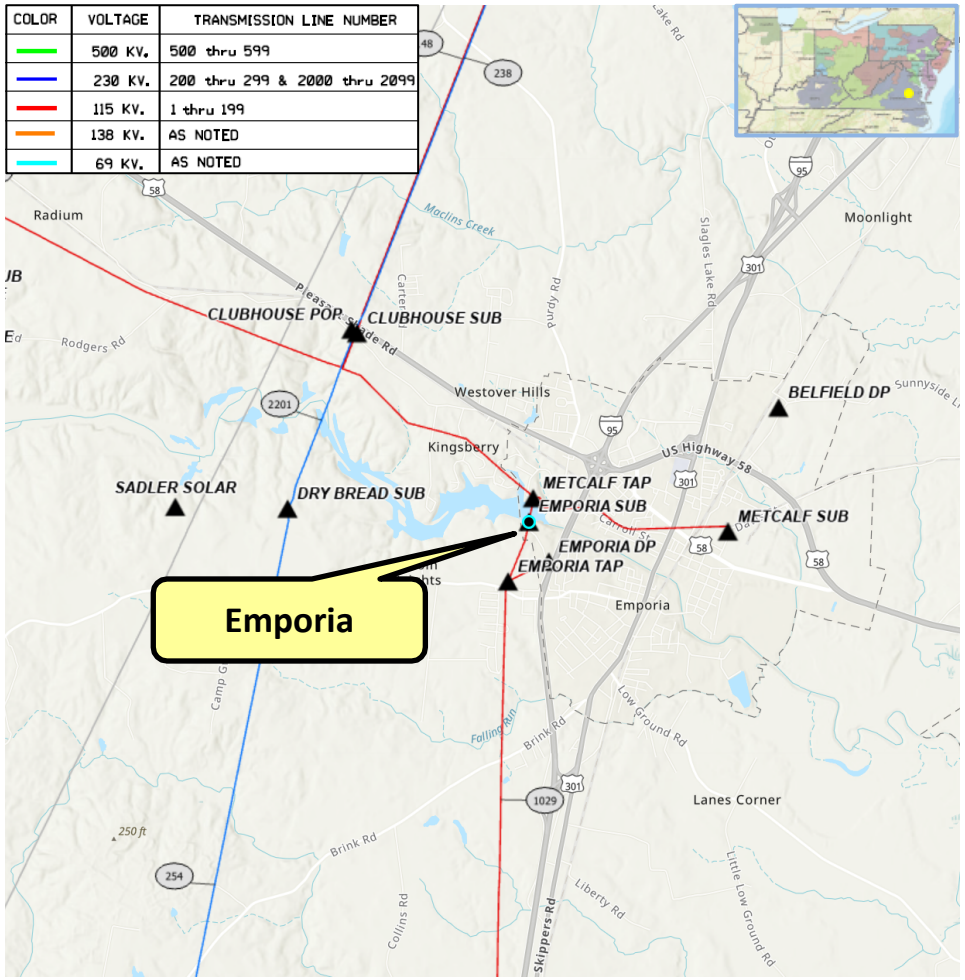
Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

**Problem Statement:**

Dominion Energy Distribution has submitted a Delivery Point (DP) Request for the installation of 2nd 115/13.2kV, 22.4MVA TX at Emporia substation with a target energization date of 04/30/2029.

The driver for the DP request is that the existing Emporia TX is a 115/13.2kV 22.4MVA transformer that feeds 2773 customers, and it is identified as a voltage island because it is mobile dependent around the year. For the loss of Emporia TX #2, only 566 customers will be fed by the field ties, and 2207 customers will experience extended outage until a replacement, or mobile TX is installed.

| Initial In-Service Load | Projected 2030 Load |
|---|---|
| Summer: 12.9 MW<br>Winter: 16.4 MW | Summer: 14.2 MW<br>Winter: 18.1 MW |



# Solutions

# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2025-0014

**Process Stage:** Need Meeting 04/10/2025

**Project Driver:** Customer Service

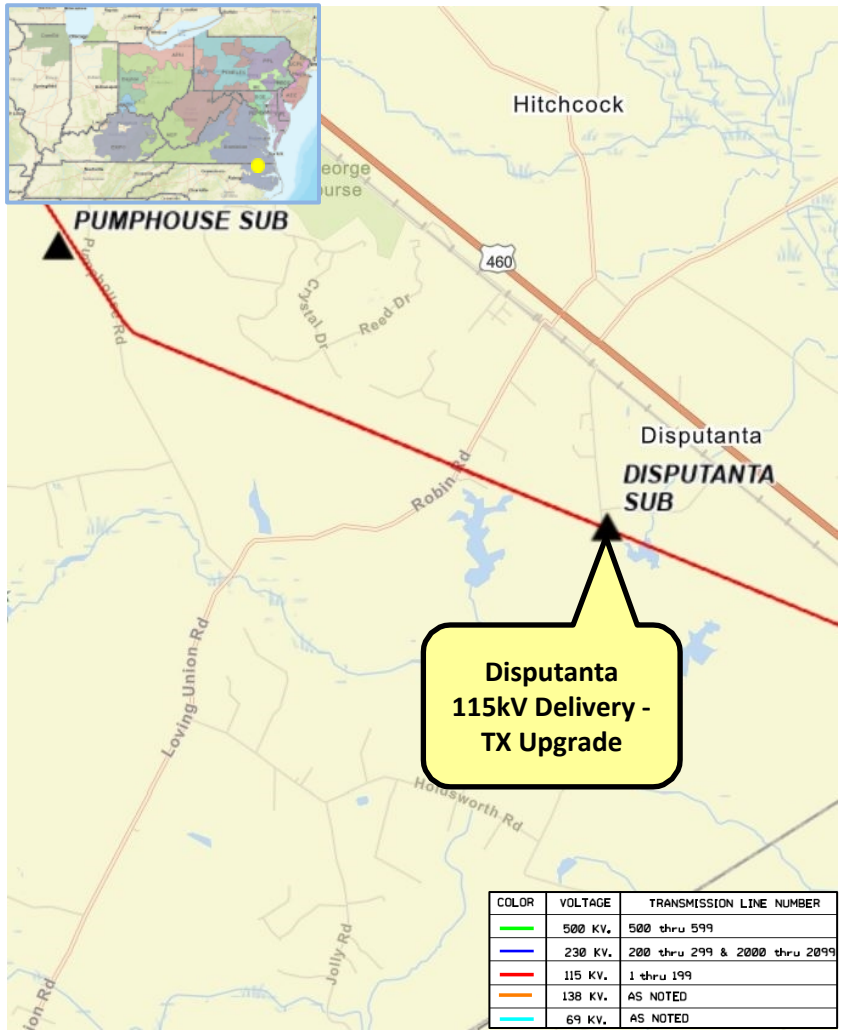
**Specific Assumption References:**

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

**Problem Statement:**

DEV Distribution has submitted a delivery point (DP) request to upgrade TX #1 at Disputanta Substation in Prince George County, VA. The reason for the upgrade is GTP Phase III Substation Technology Deployment which will enable real-time monitoring and control, advanced protection, automation, and control, and power quality monitoring. Requested in-service date is 12/31/2026.

| Initial In-Service Load | Projected 2029 Load |
|---|---|
| Summer: 1.1 MW | Summer: 1.2 MW |
| Winter: 1.3 MW | Winter: 1.4 MW |



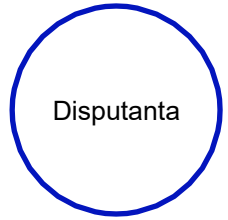
# Dominion Transmission Zone: Supplemental Customer Service

**Need Number:** DOM-2025-0014

**Process Stage:** Solution Meeting 09/18/2025
**Previously Presented:** Need Meeting 04/10/2025

**Project Driver:** Customer Service

**Proposed Solution:** Replace existing 115-13.2 kV 5 MVA TX #1 with 9.375 MVA at Disputanta Substation




**Estimated Project Cost:** $670k

**Alternatives Considered:** None. Transformer must be upgraded to comply with GTP Phase III Substation Technology Deployment

**Project In-service Date:** 12/31/2026

**Project Status:** Engineering

**Model:** 2030 RTEP


# Questions?

# 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

09/05/2025 – V1 – Original version posted to pjm.com.