

SRRTEP Committee Southern Dominion Supplemental Projects

December 11, 2025

Needs

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

Need Number: DOM-2025-0085

Process Stage: Need Meeting 12/11/2025

Project Driver: Equipment Material Condition, Performance Risk

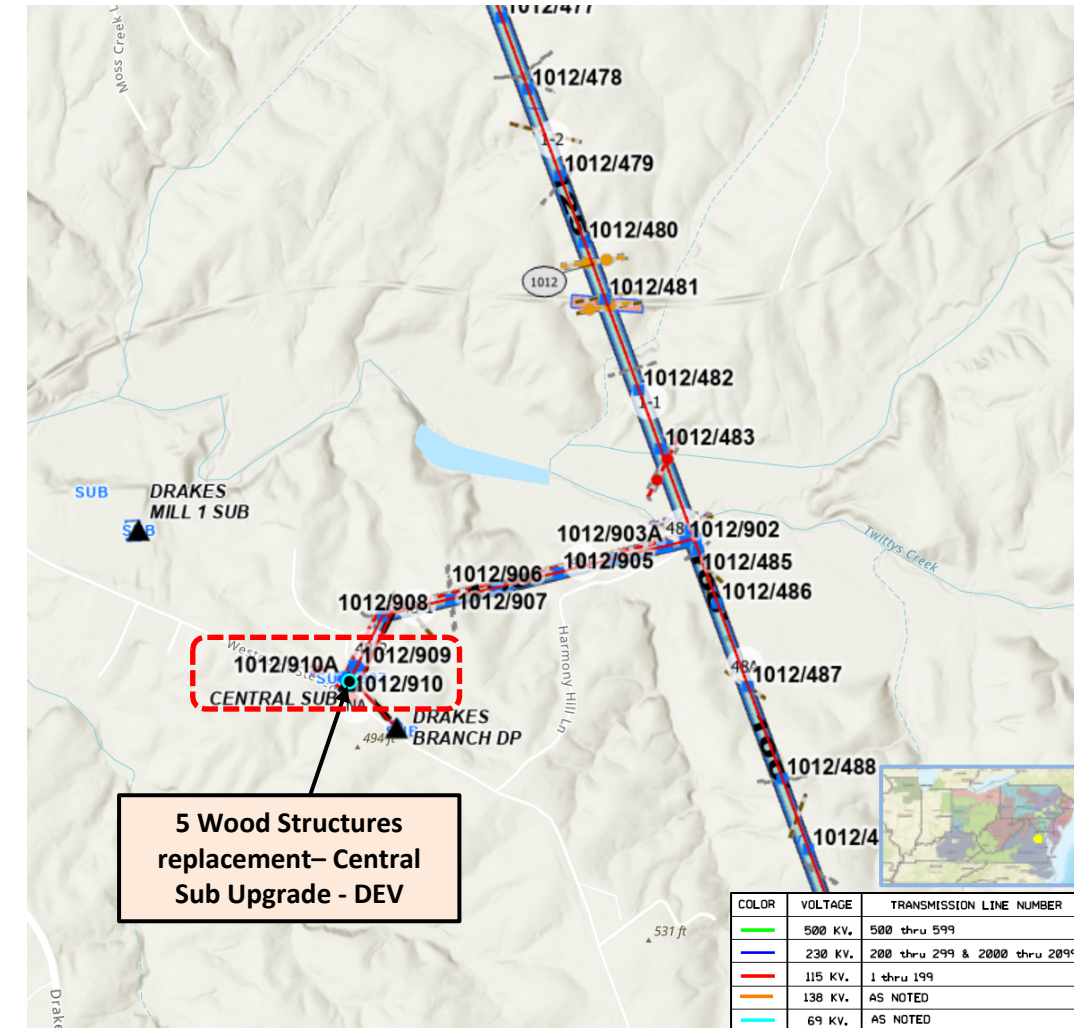
Specific Assumption References:

See details on Equipment Material Condition, Performance and Risk in Dominion's Planning Assumptions presented in December 2024.

Problem Statement:

Dominion has identified a need to replace 5 wood pole switch structures and backbones of 115kV Line #1012 (Central Substation Tap) to new 115kV standard based on the Company's End of Life criteria.

- Wood pole switch structures and backbones 1012/909A, 1012/910A, 1012/910B, 1012/910, 1012/909 were installed in 1949. These poles are experiencing significant structural issues as they age.
- Industry guidelines indicate equipment life for steel structures is 40-60 years, wood structures is 35-55 years, conductor and connectors are 40-60 years, and porcelain insulators are 50 years.
- Expected in-service date is 12/31/2029.



Dominion Transmission Zone: Supplemental Customer Load Request

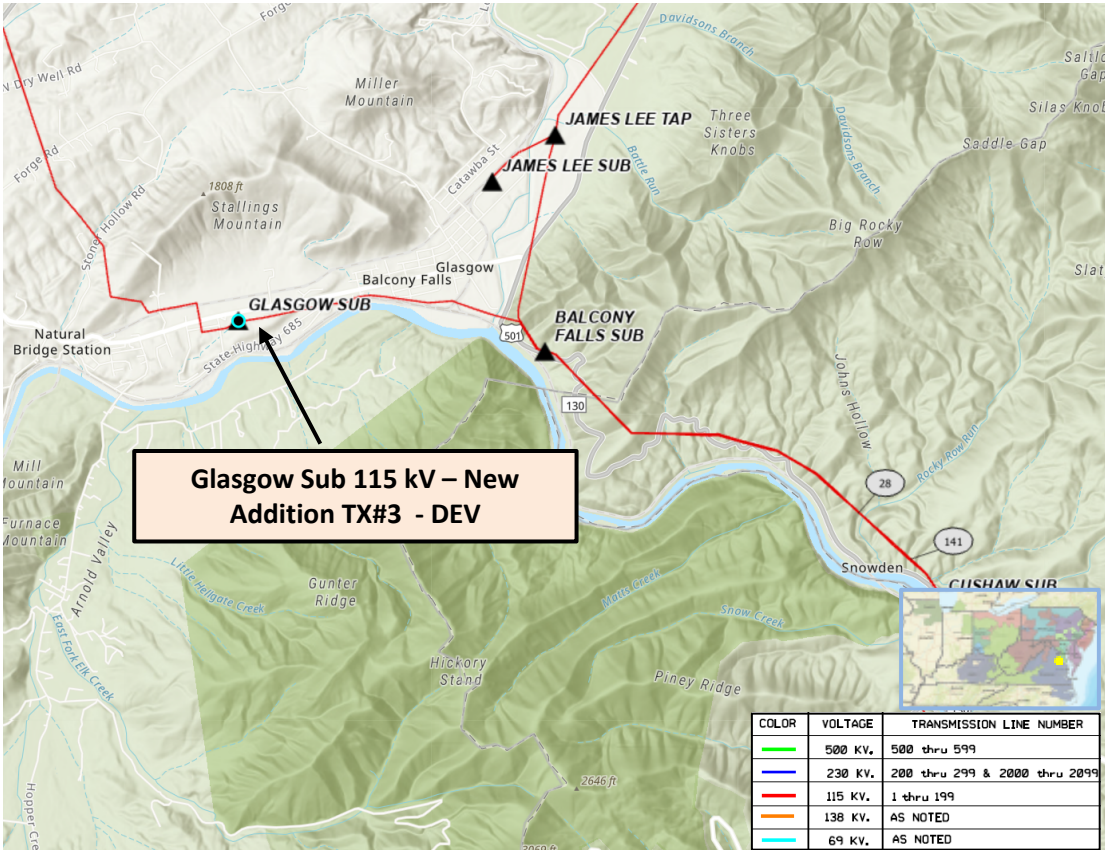
Need Number: DOM-2025-0090
Process Stage: Need Meeting 12/11/2025
Project Driver: Customer Service

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 DP Request to install a new transformer Tx #3, 22.4 MVA 115kV/13.2 kV at Glasgow substation in Rockbridge County, VA. The driver is a Grid Transformation Project to eliminate a risk of 12.5kV voltage island of distribution circuits from potential loss of Tx #2.

Expected in-service date is 05/01/2027.

In-service Station Load - 2025	Projected Load - 2034
Summer: 16 MW	Summer: 17 MW
Winter: 22 MW	Winter: 25 MW



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0093

Process Stage: Need Meeting 12/11/2025

Project Driver: Customer Service

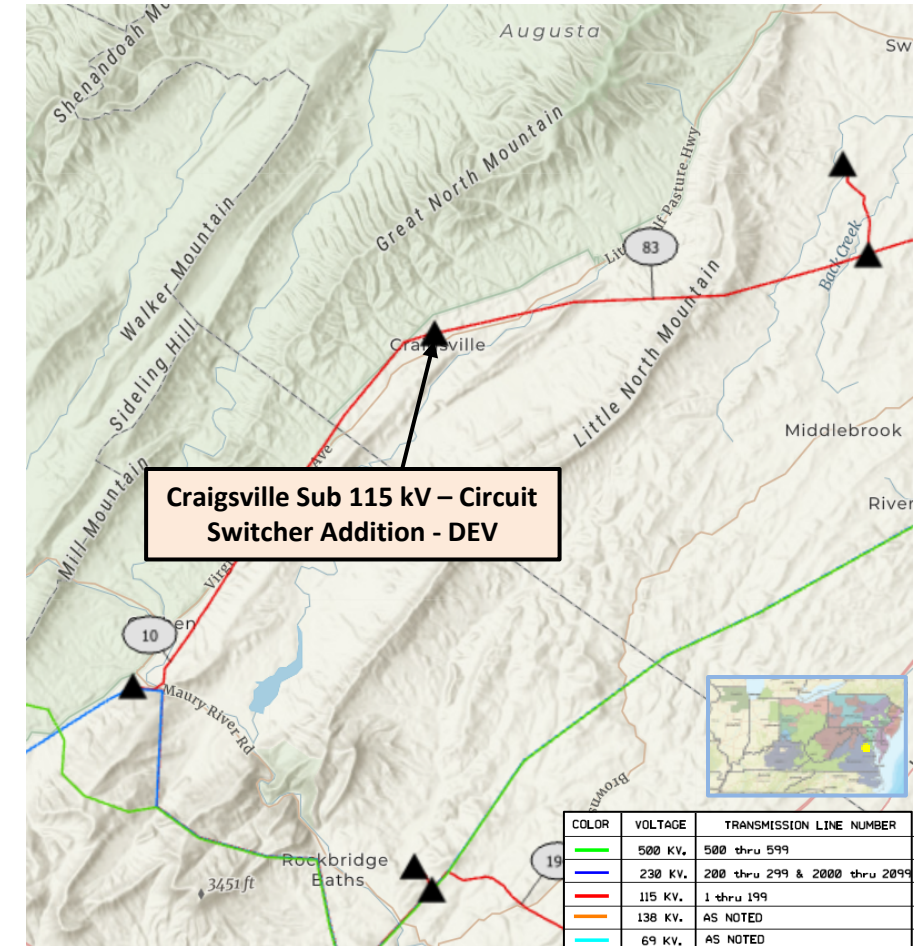
Specific Assumption References:

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 replace the fuse with circuit switcher at Craigsville Substation in Augusta County, VA. The reason for the upgrade is GTP Phase IV Substation Technology Deployment which will enable real-time monitoring and control, advanced protection, automation, control, and power quality monitoring.

Expected in-service date is 12/31/2029.



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0097

Process Stage: Need Meeting 12/11/2025

Project Driver: Customer Service

Specific Assumption References:

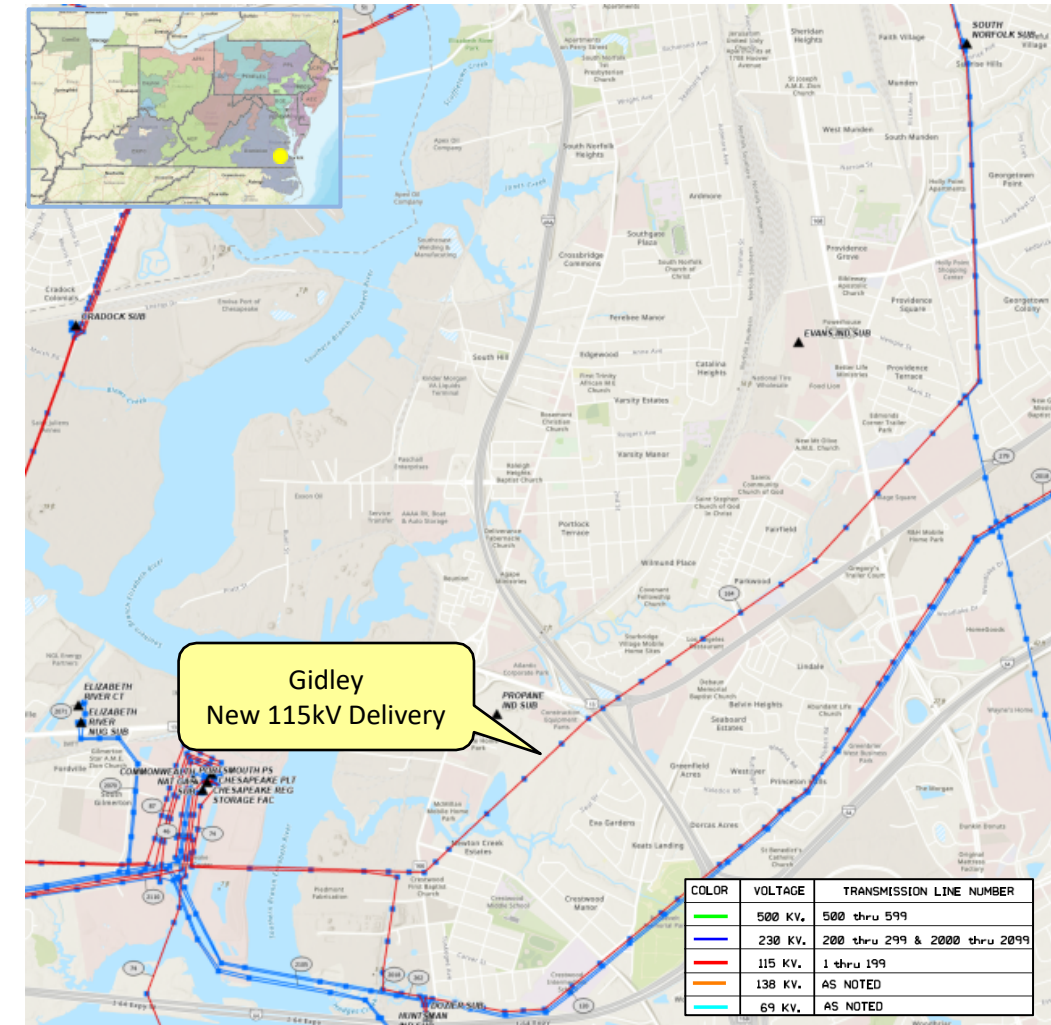
Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

Problem Statement:

Virginia Natural Gas (VNG) is adding two 9,000 HP motors with VFDs at their facility in Chesapeake, VA with potential of adding a 3rd motor by 2030. DEV Distribution investigated alternatives of adding the load to nearby substations (deemed not feasible) and submitted a DP Request for a new proposed substation to serve VNG.

Requested in-service date is 10/31/2027.

Initial In-Service Load (TX#1)	10-year Projected Load
Summer: 13.4 MW	Summer: 20.1 MW
Winter: 13.4 MW	Winter: 20.1 MW



Solutions

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0076

Process Stage: Solution Meeting 12/11/2025

Previously Presented: Need Meeting 11/13/2025

Project Driver: Customer Service

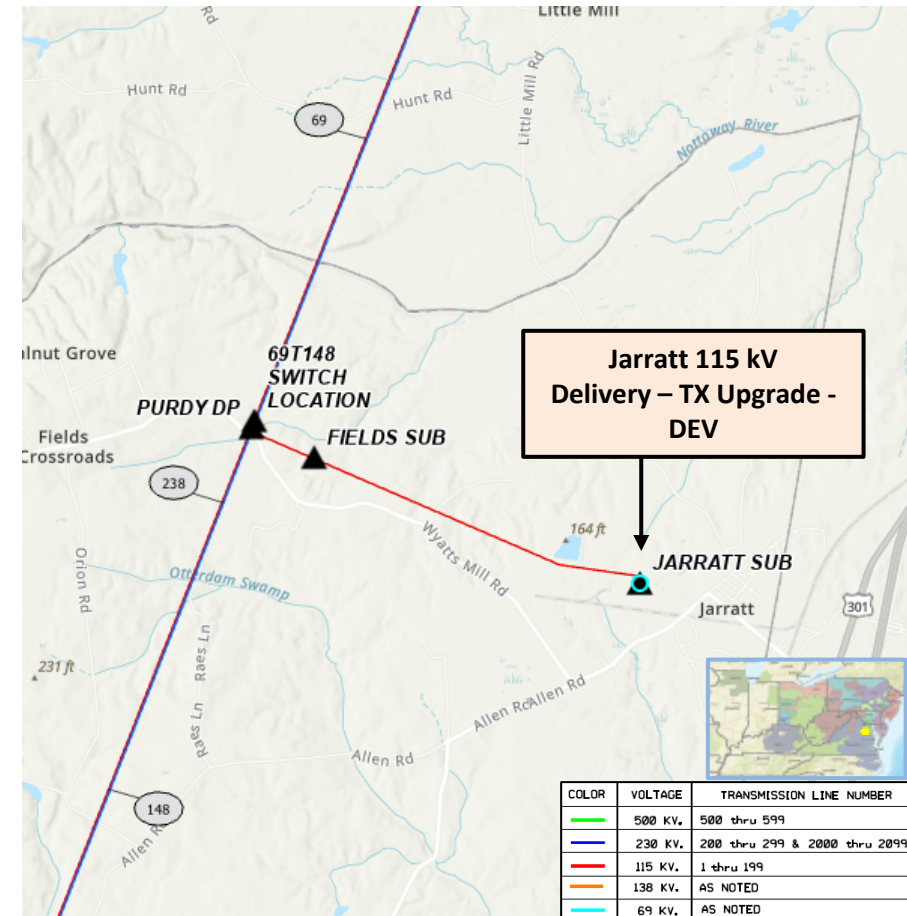
Specific Assumption References:

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 DP Request to upgrade TX #4 and retire TX #3 at Jarratt Substation in Greensville County, VA. The reason for this request is deployment of GTP Phase III Substation Technology which will enable real-time monitoring and control, as well as advanced protection, automation, and power quality monitoring. The total expected capacity is 33 MW.

Expected in-service date is ~~12/31/2026~~ 6/30/2028



Dominion Transmission Zone: Supplemental Jarratt 115kV Delivery – Upgrade TX#4 and Retire TX#3 - DEV

Need Number: DOM-2025-0076

Process Stage: Solution Meeting 12/11/2025

Project Driver: Customer Service

Proposed Solution:

Install a 1200 Amp, 25 kAIC circuit switcher and associated equipment (center break switch, bus work, relaying, etc) on the high side of the new transformer at Jarratt Substation.

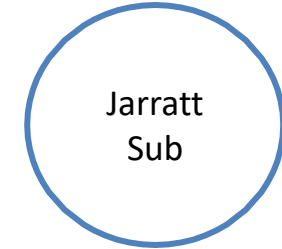
Estimated Project Cost: \$0.4M

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

Expected in-service date: ~~12/31/2026~~ 6/30/2028

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0077

Process Stage: Solution Meeting 12/11/2025

Previously Presented: Need Meeting 11/13/2025

Project Driver: Customer Service

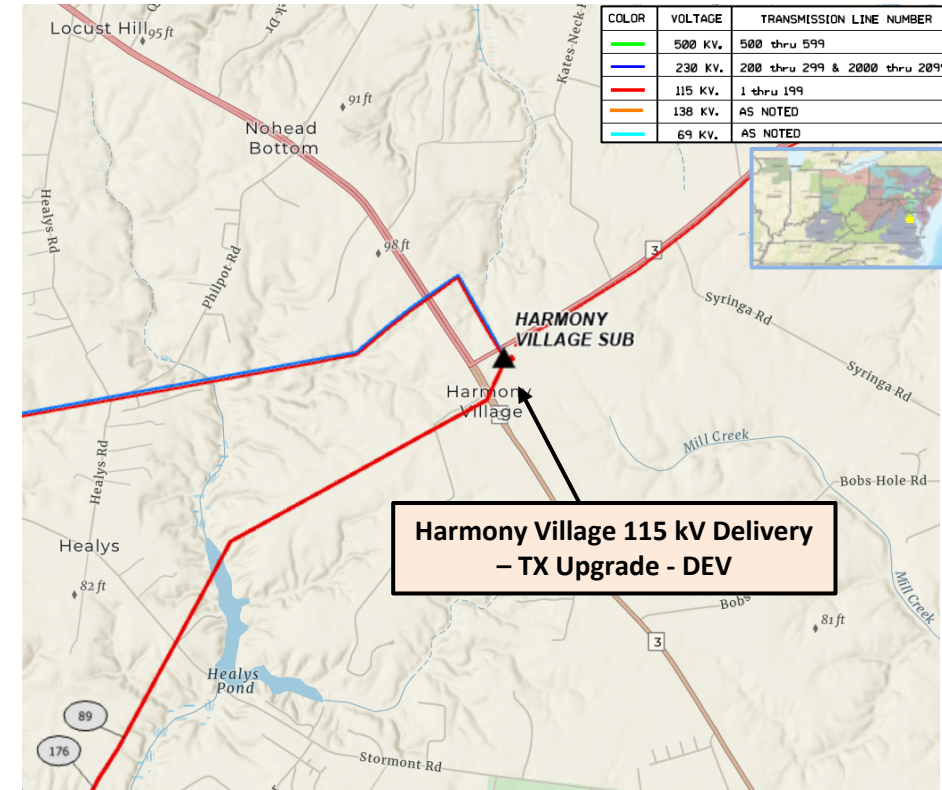
Specific Assumption References:

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 DP Request to upgrade a distribution transformer (TX#3) at Harmony Village Substation in Middlesex County, VA. The replacement is being driven by non-data center load growth with a total expected capacity of 159 MW.

Expected in-service date is 12/15/2026.



Dominion Transmission Zone: Supplemental Harmony Village 115 kV Delivery – Upgrade TX#3 - DEV

Need Number: DOM-2025-0077

Process Stage: Solution Meeting 12/11/2025

Project Driver: Customer Service

Proposed Solution:

Install a 1200 Amp, 50 kAIC circuit switcher and associated equipment (center break switch, bus work, relaying, etc) on the high side of the new transformer at Harmony Village.

Estimated Project Cost: \$1.21M

Alternative Considered: No feasible alternatives. The scope of work is occurring at an existing substation.

Expected in-service date: 12/15/2026

Project Status: Engineering

Model: 2029 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

12/01/2025 – V1 – Original version posted to pjm.com.