

# Dominion Supplemental Projects

Transmission Expansion Advisory  
Committee  
January 07, 2025

# 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

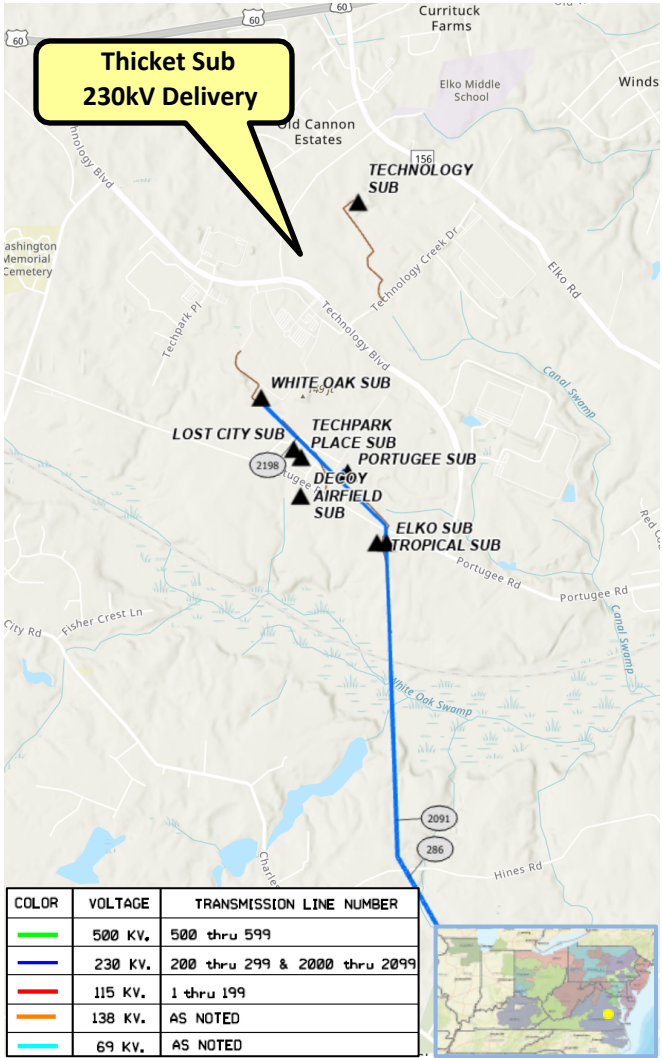
# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2024-0018  
**Process Stage:** Solution Meeting 01/07/2025  
**Previously Presented:** Need Meeting 07/09/2024  
**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 (Thicket) to serve a data center in Henrico County with a total load in excess of 100 MW. The requested in-service date is Q1 2028.

Initial In-Service Load	Projected 2029 Load
Summer: 123.0 MW Winter: 0.0 MW	Summer: 255.0 MW Winter: 195.0 MW



# Dominion Transmission Zone: Supplemental Thicket 230kV Delivery - DEV

**Need Number:** DOM-2024-0018

**Process Stage:** Solution Meeting 01/07/2025

**Project Driver:** Customer Service

**Proposed Solution:**

Cut and loop future 230kV Line 2294 (Chickahominy to White Oak) in and out of proposed Thicket substation. Line 2294 to terminate in a 230kV six-breaker ring arrangement.

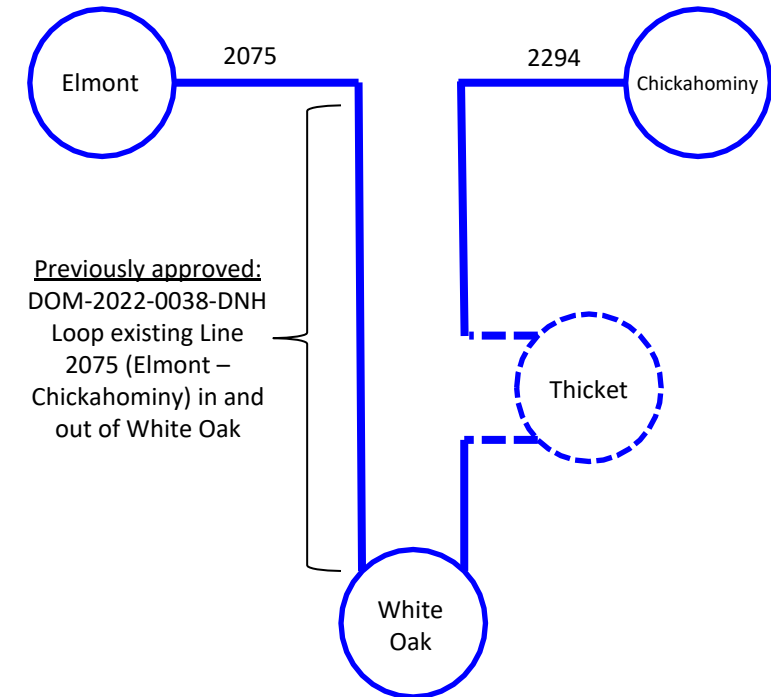
**Estimated Project Cost:** \$20M Substation, \$5M Transmission Line

**Alternatives Considered:** None, new station is adjacent to existing transmission line and on customer property

**Projected In-service Date:** Q4 2027

**Project Status:** Engineering

**Model:** 2029 RTEP



# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2024-0020

**Process Stage:** Solution Meeting 01/07/2025

**Previously Presented:** Need Meeting 07/09/2024

**Project Driver:** Customer Service

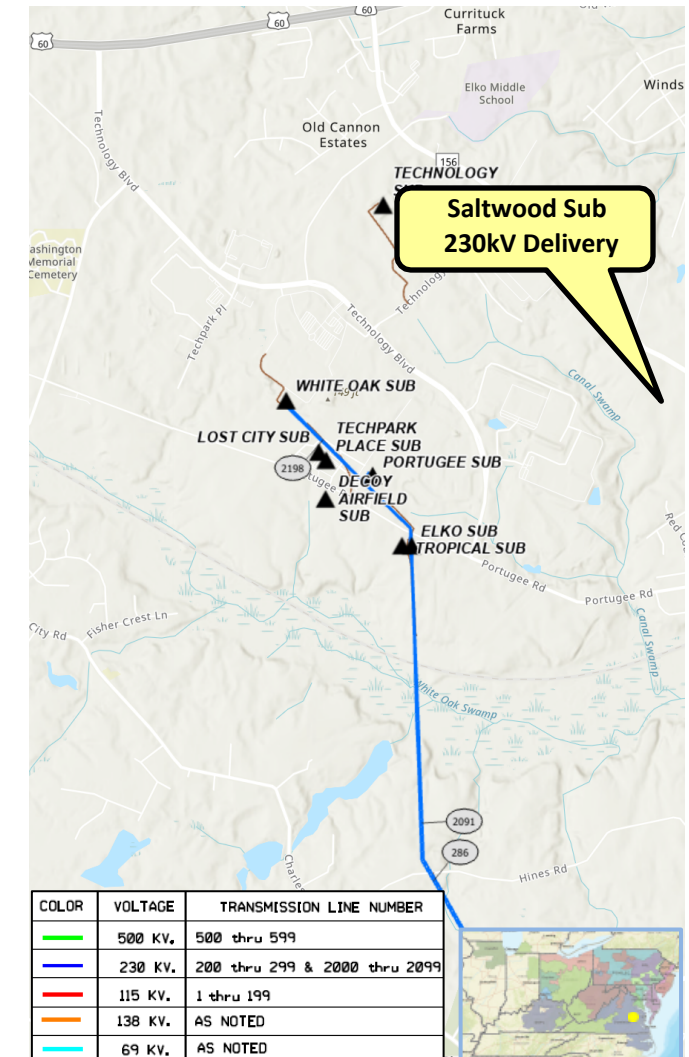
## Specific Assumption References:

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 (Saltwood) to serve a data center in Henrico County with a total load in excess of 100 MW. The requested in-service date is 7/01/2027.

Initial In-Service Load	Projected 2029 Load
Summer: 150.0 MW Winter: 0.0 MW	Summer: 300.0 MW Winter: 300.0 MW



# Dominion Transmission Zone: Supplemental Saltwood 230kV Delivery - DEV

**Need Number:** DOM-2024-0020

**Process Stage:** Solution Meeting 01/07/2025

**Project Driver:** Customer Service

**Proposed Solution:**

Extend two 230kV lines from proposed Thicket substation to proposed Saltwood substation. Lines to terminate in a 230kV six-breaker ring arrangement.

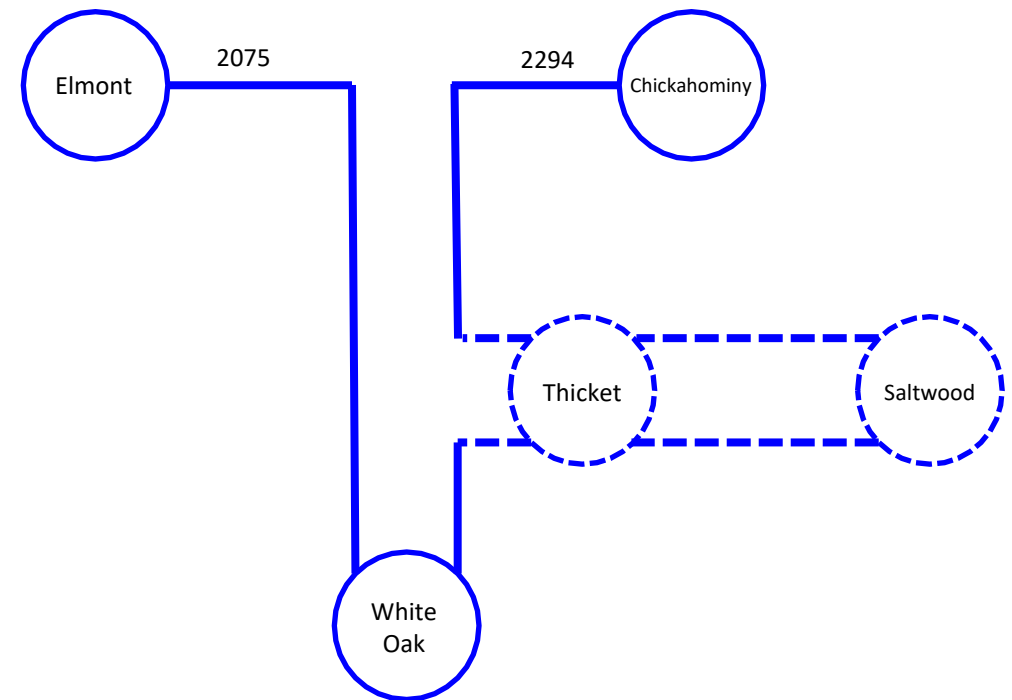
**Estimated Project Cost:** \$20M Substation, \$20M Transmission Line

**Alternatives Considered:** None, new station is adjacent to existing transmission line

**Projected In-service Date:** Q3 2027

**Project Status:** Engineering

**Model:** 2029 RTEP



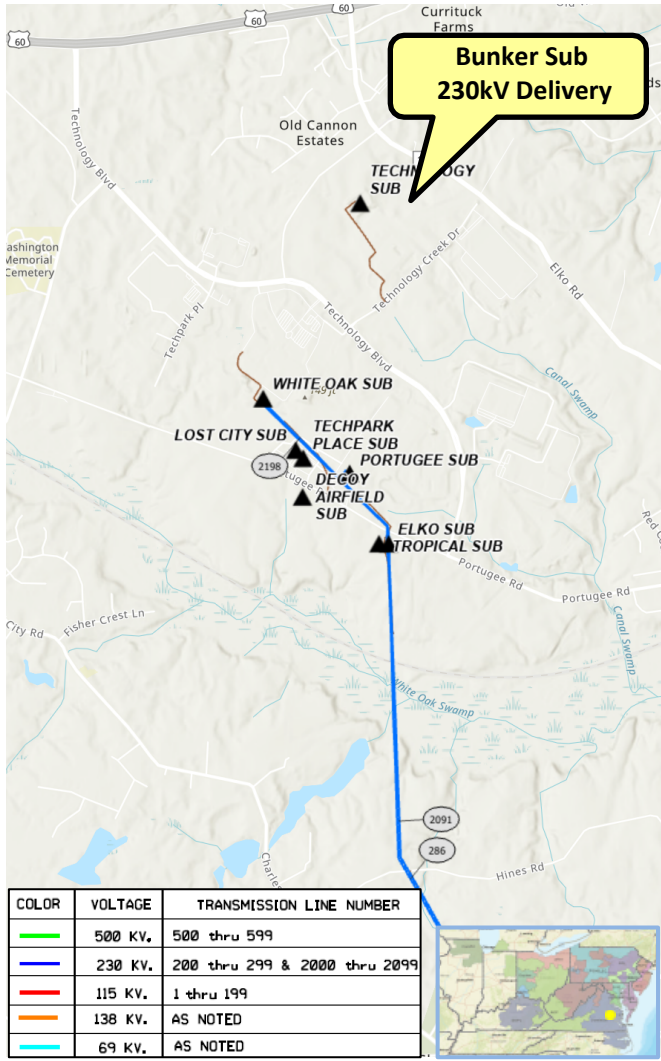
# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2024-0040  
**Process Stage:** Solution Meeting 01/07/2025  
**Previously Presented:** Need Meeting 08/06/2024  
**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 (Bunker) to serve a data center in Henrico County with a total load in excess of 100 MW. The requested in-service date is 12/31/2027.

Initial In-Service Load	Projected 2029 Load
Summer: 28.0 MW Winter: 8.0 MW	Summer: 104.0 MW Winter: 60.0 MW



# Dominion Transmission Zone: Supplemental Bunker 230kV Delivery - DEV

**Need Number:** DOM-2024-0040

**Process Stage:** Solution Meeting 01/07/2025

**Project Driver:** Customer Service

**Proposed Solution:**

Cut and loop future 230kV line between proposed Thicket substation and proposed Saltwood substation in and out of proposed Bunker substation. Lines to terminate in a 230kV four-breaker ring arrangement.

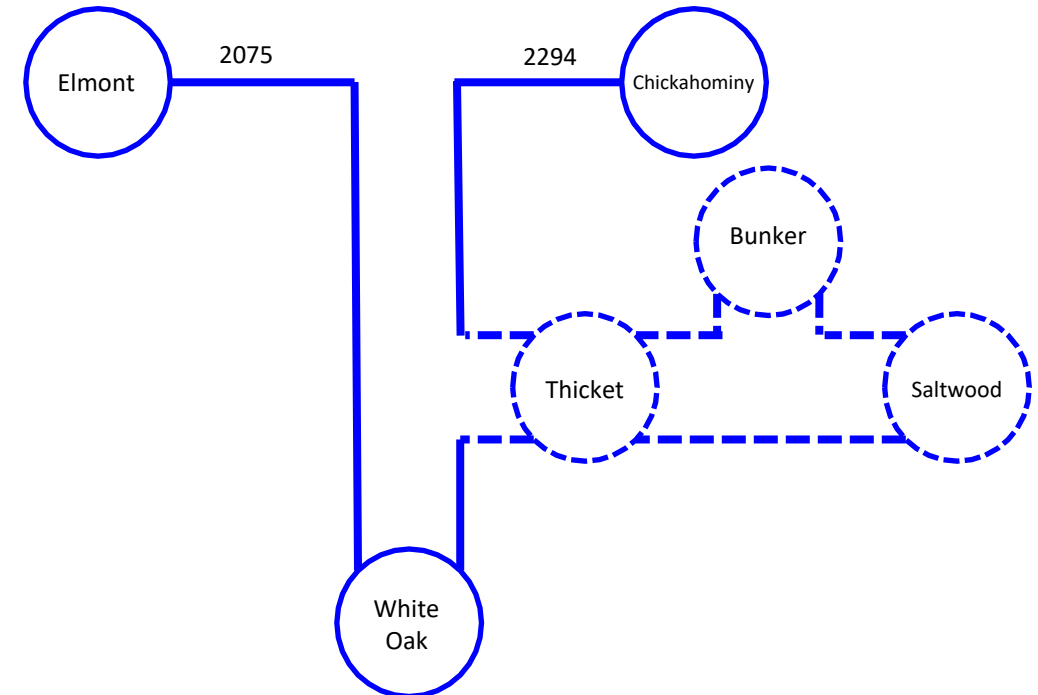
**Estimated Project Cost:** \$15M Substation, \$6M Transmission Line

**Alternatives Considered:** None, new station is on customer owned land and adjacent to existing transmission source.

**Projected In-service Date:** Q4 2027

**Project Status:** Engineering

**Model:** 2029 RTEP





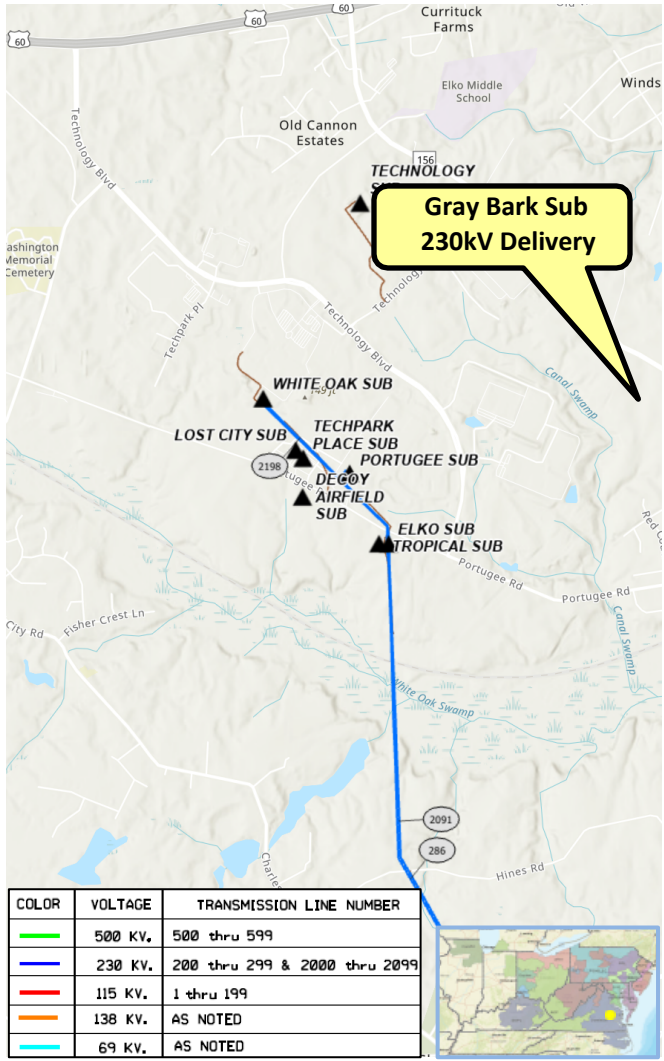
# Dominion Transmission Zone: Supplemental Customer Load Request

**Need Number:** DOM-2024-0019  
**Process Stage:** Solution Meeting 01/07/2025  
**Previously Presented:** Need Meeting 07/09/2024  
**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 (Gray Bark) to serve a data center in Henrico County with a total load in excess of 100 MW. The requested in-service date is 7/01/2027.

Initial In-Service Load	Projected 2029 Load
Summer: 127.0 MW Winter: 0.0 MW	Summer: 300.0 MW Winter: 300.0 MW



# Dominion Transmission Zone: Supplemental Gray Bark 230kV Delivery - DEV

**Need Number:** DOM-2024-0019

**Process Stage:** Solution Meeting 01/07/2025

**Project Driver:** Customer Service

## **Proposed Solution:**

Extend two 230kV lines from proposed Saltwood substation to proposed Gray Bark substation. Cut and loop existing 230kV Line 2091 (Chickahominy to Portugee) into Gray Bark substation. Lines to terminate in a 230kV six-breaker ring arrangement.

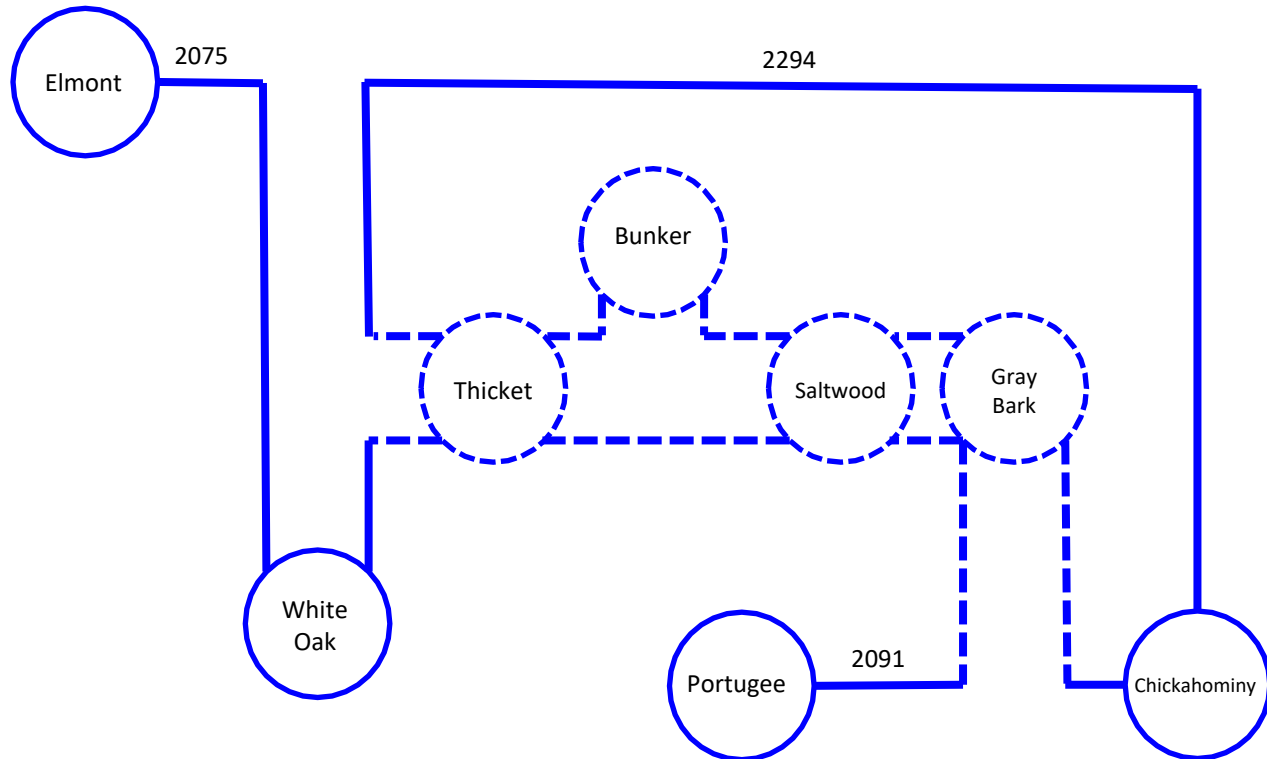
**Estimated Project Cost:** \$20M Substation, \$20M Transmission Lines

**Alternatives Considered:** None, new station is adjacent to existing transmission line

**Projected In-service Date:** Q3 2027

**Project Status:** Engineering

**Model:** 2029 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

12/27/2024 – V1 – Original version posted to pjm.com

01/06/2025 – V2 – Changed the order of the slides per Dominions request