

# Transmission Expansion Advisory Committee

## FirstEnergy Supplemental Projects

### APS Transmission Zone

## Re-Present

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

**Need Number:** APS-2025-021  
**Process Stage:** Solution Meeting – ~~11/04/2025~~ 02/03/2026  
**Previously Presented:** Need Meeting – 09/09/2025

**Supplemental Project Driver(s):**  
*Customer Services*

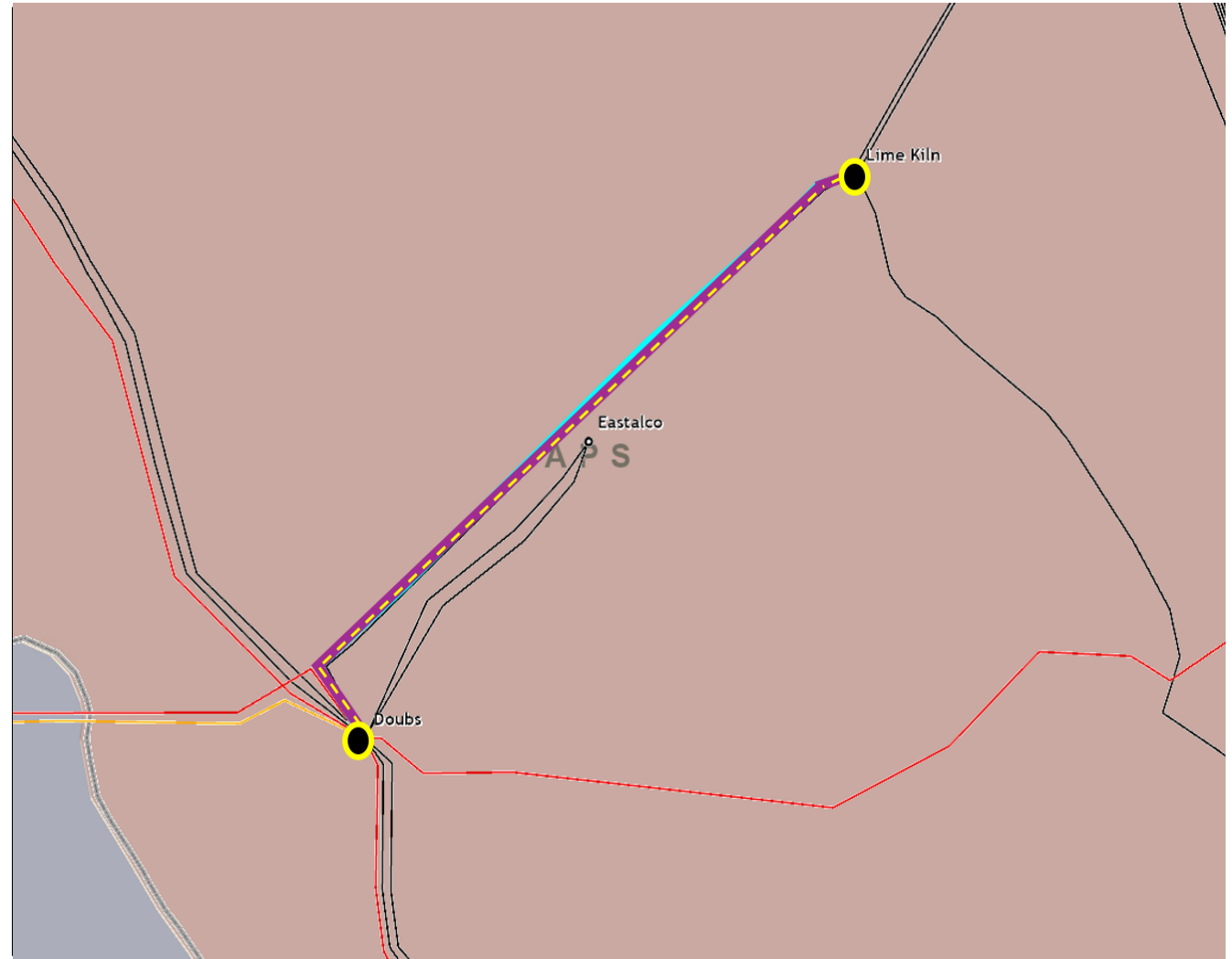
### Specific Assumption Reference(s):

New customer connection request will be evaluated based on FirstEnergy's "Requirements for Transmission Connected Facilities" document and FirstEnergy's "Transmission Planning Criteria" document

### Problem Statement

New Wholesale Connection – A customer requested a new 230 kV delivery point near the Doubs – Sage #205 and Doubs – Sage #207 230 kV Lines. The initial anticipated load of the new customer connection is 232 MVA. Future project total load at site is anticipated at 600 MVA. The request is approximately 3.5 miles from Doubs Substation.

**Requested In-Service Date:** 09/2030





**Need Number:** APS-2025-021  
**Process Stage:** Solution Meeting – ~~11/04/2025~~ 02/03/2026

**Proposed Solution:**

Construct new Quantum 300 Substation

- Build a new 10-breaker 230 kV breaker-and-a-half station
- Loop the Doubs – Sage #205 and Doubs – Sage #207 230 kV lines in and out of new breaker-and-a-half station
- **Rebuild and** reconductor 2.9 miles of the Doubs – Sage #205 and #207 230 kV lines between Doubs Substation and the new breaker-and-a-half station.
- **Rebuild and reconductor 0.6 miles of the Doubs – Sage #205 and #207 230 kV lines between the new breaker-and-a-half substation and Sage Substation.**

**Transmission Line Ratings:**

Doubs – Sage #205 230 kV Line:

- Before Proposed Solution:
  - 617 / 754 / 699 / 894 MVA (SN/SE/WN/WE)
- After Proposed Solution:
  - Doubs – **Manor Woods** #205 230 kV Line: 1156 / 1334 / 1158 / 1403 MVA (SN/SE/WN/WE)
  - **Manor Woods - Sage #205 230 kV Line: 1156 / 1334 / 1158 / 1403 MVA (SN/SE/WN/WE)**

Doubs – Sage #207 230 kV Line:

- Before Proposed Solution:
  - 617 / 754 / 699 / 894 MVA (SN/SE/WN/WE)
- After Proposed Solution:
  - Doubs – **Manor Woods** #207 230 kV Line: 1156 / 1334 / 1158 / 1403 MVA (SN/SE/WN/WE)
  - **Manor Woods - Sage #207 230 kV Line: 1156 / 1334 / 1158 / 1403 MVA (SN/SE/WN/WE)**

**Alternatives Considered:**

No alternatives were considered due to the proximity of the Doubs – Lime Kiln #207 **and Doubs – Sage #205 230 kV lines**

**Estimated Project Costs:** \$63.16 M

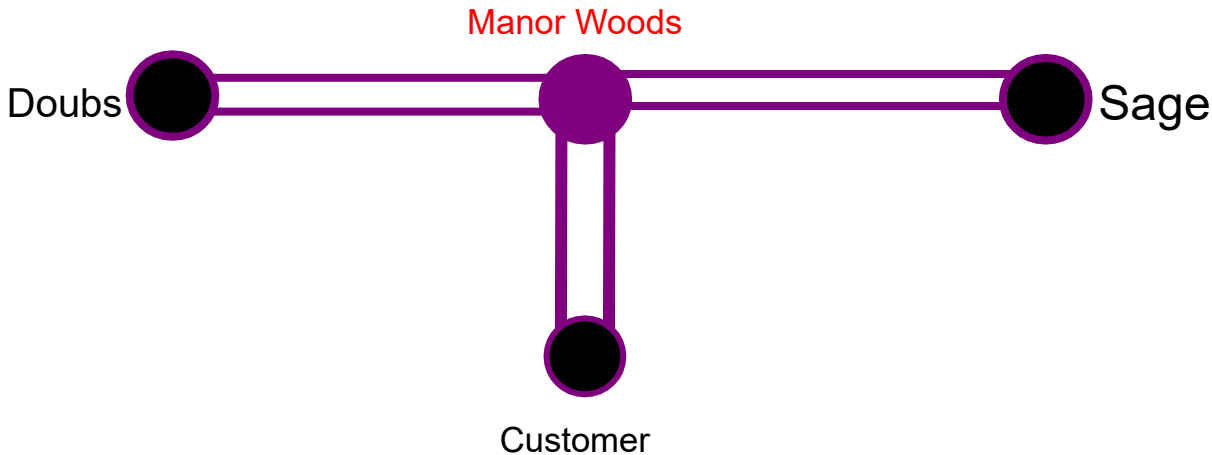
**Project In-Service Date:** 09/23/2032

**Status:** Conceptual

**Model:** 2023 RTEP – 2028 Summer 50/50 Case

# APS Transmission Zone M-3 Process

## Doubs - Lime Kiln 230 kV Line



| Legend  |  |
|---------|--|
| 500 kV  |  |
| 345 kV  |  |
| 230 kV  |  |
| 138 kV  |  |
| 69 kV   |  |
| 34.5 kV |  |
| 23 kV   |  |
| New     |  |

# 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

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