



Transmission Expansion Advisory Committee

FirstEnergy Supplemental Projects

APS Transmission Zone

April 07, 2026

Re-present 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

APS-2023-058: Originally presented as a need on 10/31/2023 and solution on 11/04/2025 TEAC meetings.

Reason for Scope Change:

- The solution was revised as the After Proposed Solution ratings were changed.

Original Solution Presented on 11/04/2025:

- Remove and replace 93 wood structures with steel structures on concrete foundation and install 12.72 miles of new conductor
- Adjust relaying at Carroll and Mt. Airy substations

Original Alternatives Considered:

Maintain equipment in existing condition with elevated risk of misoperations.

Original Transmission Line Ratings:

Carroll – Mount Airy 230 kV Line Ratings:

- Before Proposed Solution: 251 / 343 / 302 / 370 MVA (SN/SE/WN/WE)
- After Proposed Solution: 617 / 754 / 699 / 894 MVA (SN/SE/WN/WE)

Revised Transmission Line Ratings:

- Before Proposed Solution: 251 / 343 / 302 / 370 MVA (SN/SE/WN/WE)
- After Proposed Solution: 709 / 869 / 805 / 1031 MVA (SN / SE / WN / WE)

Estimated Project Cost: \$50M
Projected In-Service: 06/30/2029
Project Status: Conceptual
Model: 2023 RTEP - 2028 Summer 50/50 Case



Legend	
500 kV	
345 kV	
230 kV	
138 kV	
115 kV	
69 kV	
46 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

03/27/2026– V1 – Original version posted to pjm.com