

Transmission Expansion Advisory Committee FirstEnergy Supplemental Projects

February 4th, 2025

Needs

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-2025-001

Process Stage: Need Meeting 02/04/2025

Project Driver: Equipment Condition/Performance/Risk

Specific Assumption References:

System Performance Projects Global Factors

Substation/line equipment limits

System reliability and performance

Substation Condition Rebuild/Replacement

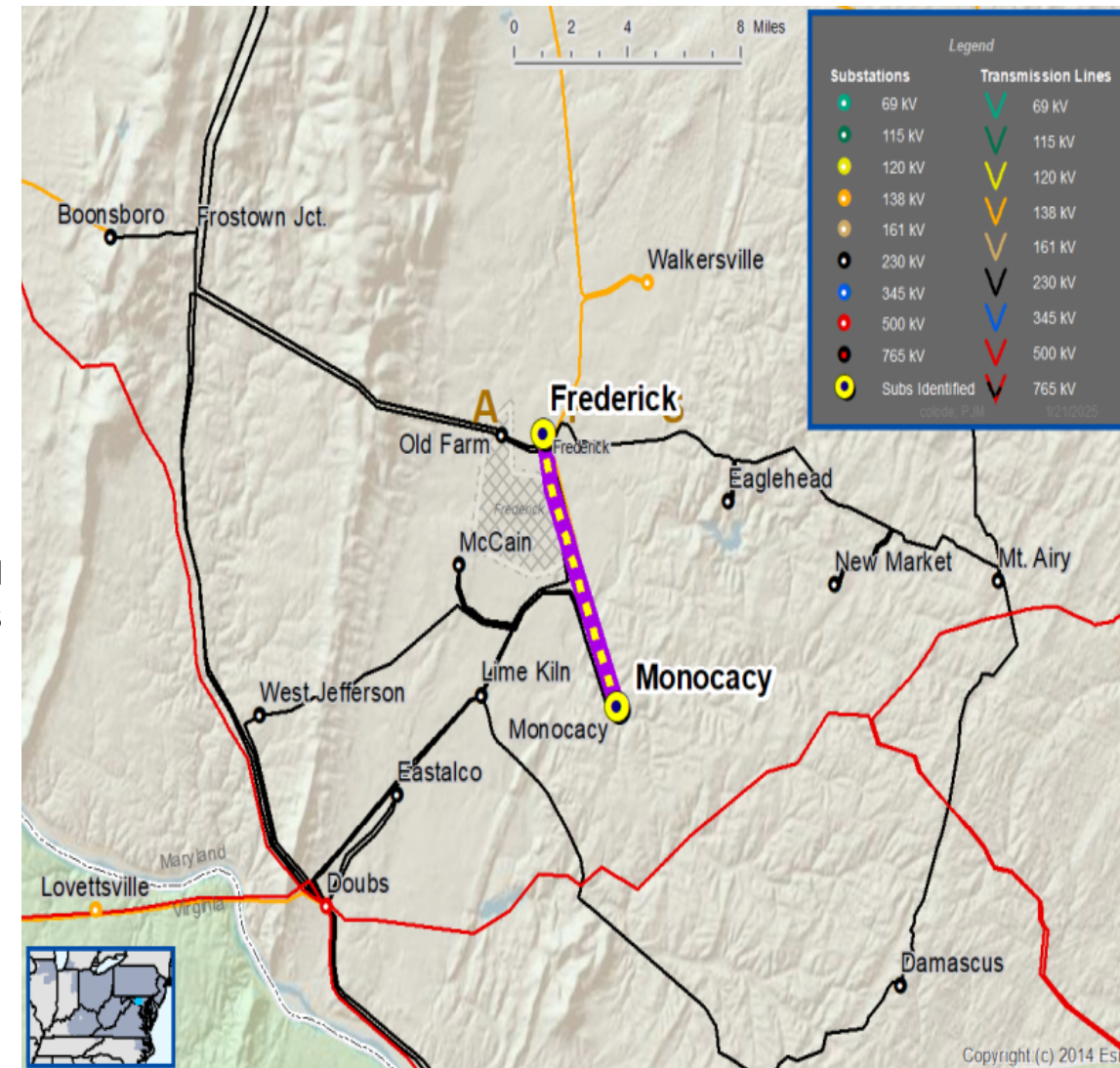
Circuit breakers and other fault interrupting devices

Problem Statement:

The Frederick A – Monocacy 230 kV Line circuit breakers, circuit switchers, associated disconnect switches and protective relaying at Frederick A and Monocacy substations are aging with increasing maintenance concerns. The equipment is over 45 years old.

Transmission line ratings are limited by terminal equipment.

- Existing line ratings: 548 / 688 / 699 / 797 MVA (SN/SE/WN/WE)
- Existing conductor ratings: 617 / 754 / 699 / 894 (MVA SN/SE/WN/WE)



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

1/24/2025– V1 – Original version posted to pjm.com