

Transmission Expansion Advisory Committee FirstEnergy Supplemental Projects

April 2, 2024

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: PN-2024-013

Process Stage: Need Meeting – 04/02/2024

Project Driver:

*Equipment Material Condition, Performance and Risk
Operational Flexibility and Efficiency*

Specific Assumption Reference:

System Performance Projects Global Factors

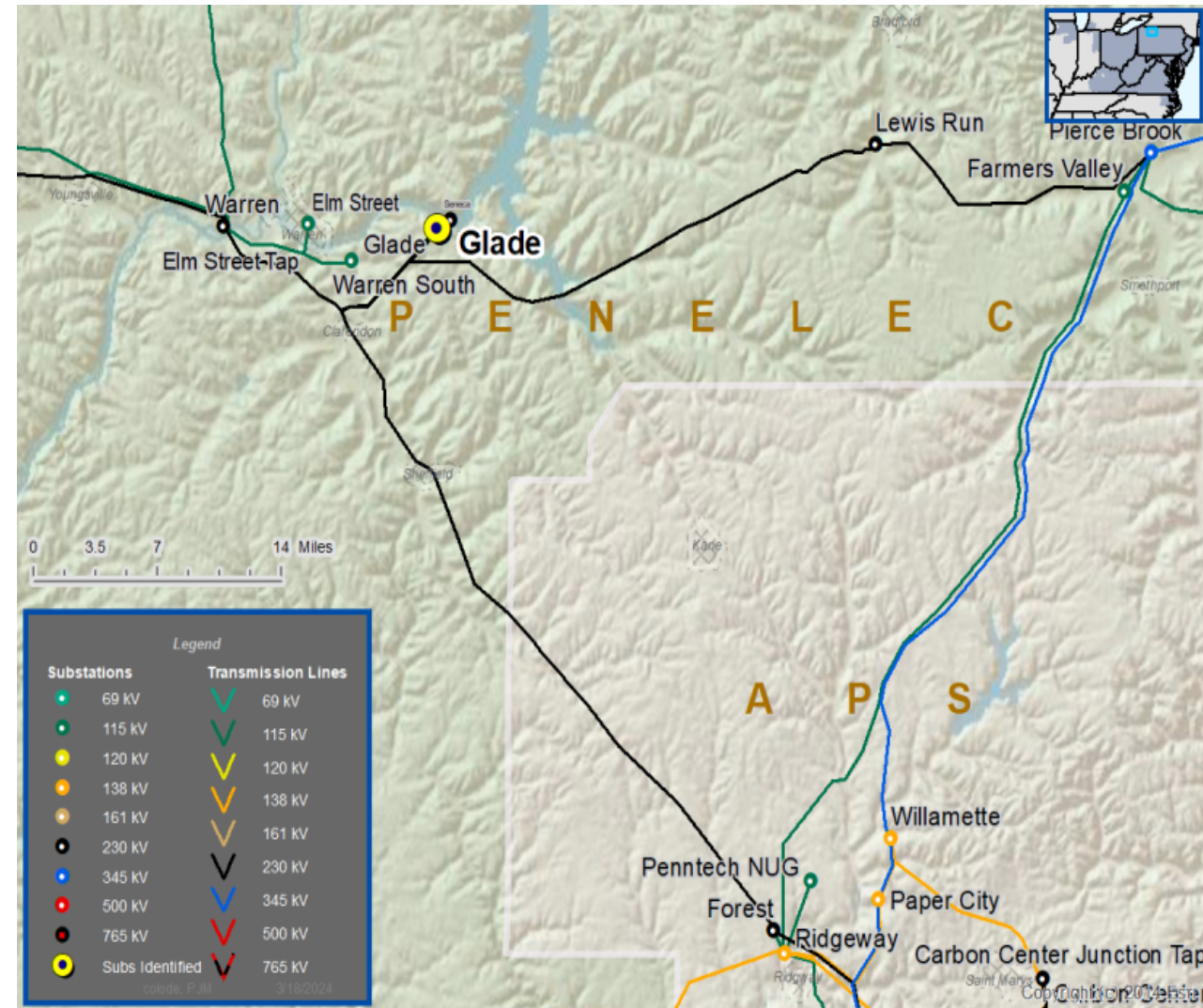
- Failure risk, age and condition, obsolescence, operational or design limitations
- Substation/line equipment limits

Upgrade Relay Schemes

- Obsolete and difficult to repair communication equipment
- Communication technology upgrades

Problem Statement:

- The Glade Substation control building is deteriorated and has limited space. The walls are excessively rusty due to moisture penetration and the windows are broken.
- The Glade Substation control building is 56 years old.
- Transmission line ratings are limited by terminal equipment:
 - Forest – Glade 230 kV Line:
 - Existing Ratings: 541 / 659 / 612 / 781 MVA (SN/SE/WN/WE)
 - Transmission Line Conductor Ratings: 546 / 666 / 619 / 790 MVA (SN/SE/WN/WE)
 - Glade – Lewis Run 230 kV Line:
 - Existing Ratings: 541 / 659 / 612 / 762 MVA (SN/SE/WN/WE)
 - Transmission Line Conductor Ratings: 546 / 666 / 619 / 790 MVA (SN/SE/WN/WE)
 - Glade – Warren 230 kV Line:
 - Existing Ratings: 520 / 621 / 619 / 710 MVA (SN/SE/WN/WE)
 - Transmission Line Conductor Ratings: 546 / 666 / 619 / 790 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

03/21/2024– V1 – Original version posted to pjm.com