

Transmission Expansion Advisory Committee FirstEnergy Supplemental Projects

December 03, 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

Penelec Transmission Zone M-3 Process Lewistown – Shingletown 230 kV Line

Need Numbers: PN-2023-031

Process Stage: Need Meeting – 12/03/2024

Project Driver:

Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

System Performance Global Factors

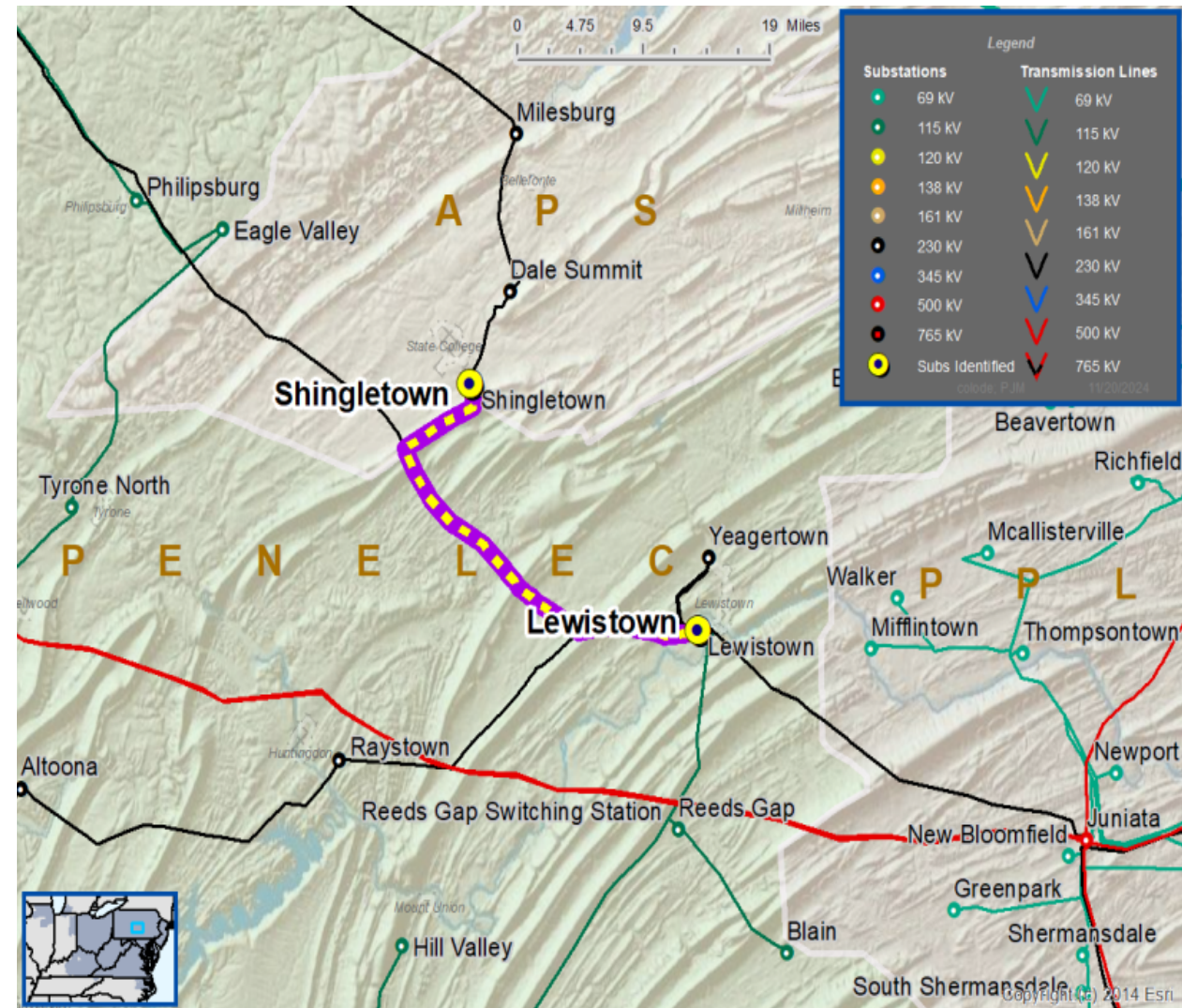
- Past system reliability/performance
- Substation/Line equipment limits

Line Condition Rebuild/Replacement

- Age/condition of transmission line structures

Problem Statement:

- The Lewistown – Shingletown 230 kV SL Line was constructed approximately 59 years ago and is approaching end of life. The line is approximately 26 miles long with 50 wood pole transmission line structures, 97 steel lattice towers, and one steel monopole structure.
- Per recent inspections, the line is exhibiting deterioration. Inspection findings include cracked/deteriorated wood poles and components and sound test failures.
 - 47 out of 50 wood structures require replacement.
 - Several steel towers have a history of worn insulators and static wire attachments
- The line is currently limited by terminal equipment.
- Existing Transmission Line Rating
 - 512 / 612 / 619 / 700 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

11/22/2024 – V1 – Original version posted to pjm.com