Subregional RTEP Committee – Mid-Atlantic
FirstEnergy Supplemental Projects

Penelec Transmission Zone

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

Penelec Transmission Zone M-3 Process
Eagle Valley – Philipsburg 115 kV Line, PA

Need Number: PN-2024-004

Process Stage: Solution Meeting – SRRTEP-MA – 08/13/2026

Previously Presented: Need Meeting – SRRTEP-MA – 03/14/2024

Project Driver:

Equipment Condition/Performance/Risk

Operational Flexibility and Efficiency

Specific Assumption References:

System Performance Global Factors

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

Line Condition Rebuild/Replacement

- Age/condition of wood pole transmission line structures

Problem Statement:

The Eagle Valley – Philipsburg 115 kV Line was constructed 68 years ago. The line is approximately 11.9 miles long with 98 wooden H-frame structures.

Recent inspections have identified that the line is exhibiting deterioration to its poles, arms, braces and attachment hardware.

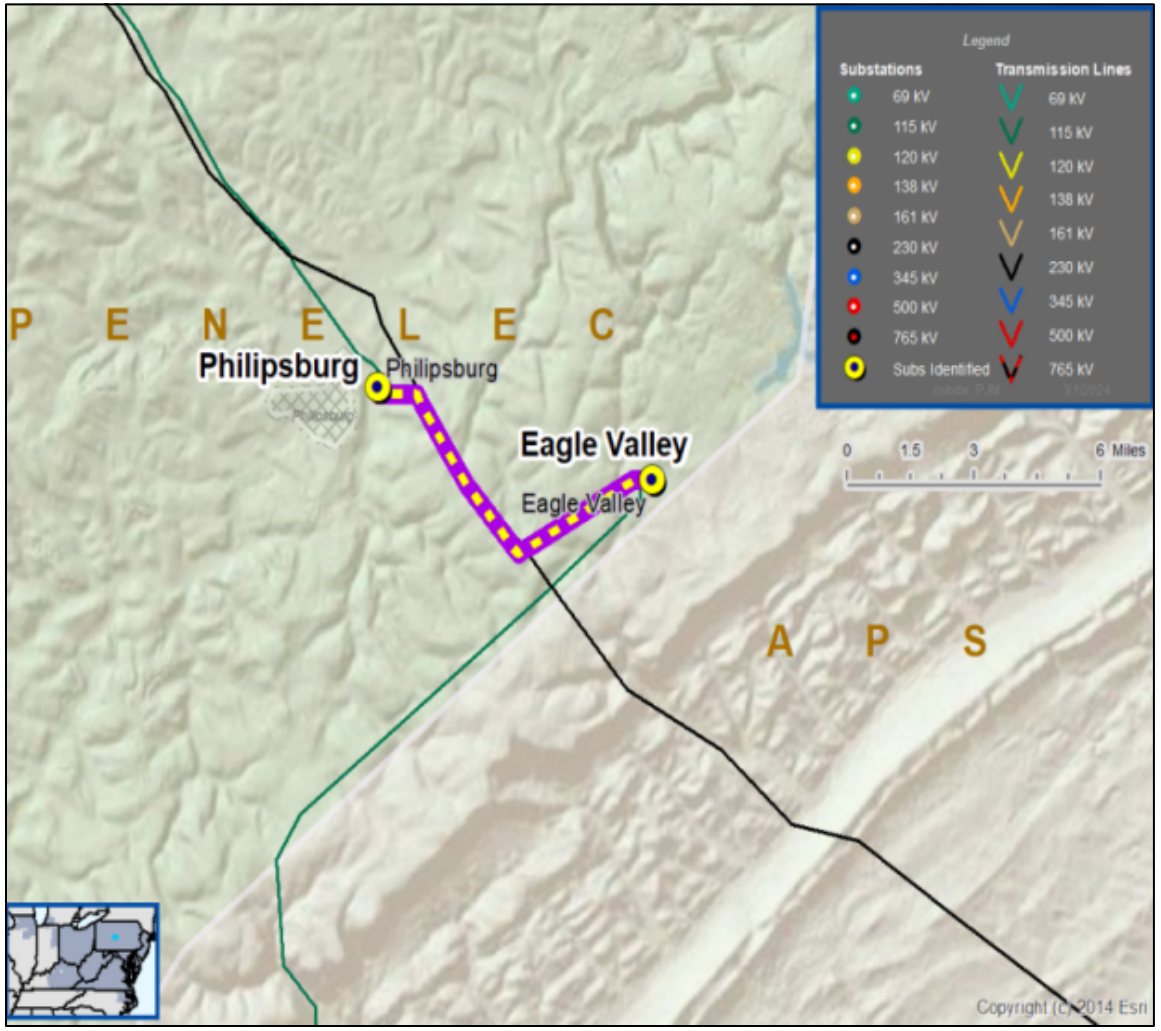
- 50 structures failed inspection due to deteriorated condition of wood poles and hardware.
- 80 structures are 45 years or older.

Since 2019, the Eagle Valley – Philipsburg 115 kV Line experienced one unscheduled outage due to a broken cross arm.

The line is limited by terminal equipment.

Existing Eagle Valley – Philipsburg 115 kV Line Ratings:

- 137 / 174 / 171 / 190 MVA (SN/SE/WN/WE)



Penelec Transmission Zone M-3 Process
Eagle Valley – Philipsburg 115 kV Line, PA

Need Number: PN-2024-004

Process Stage: Solution Meeting – SRRTEP-MA – 08/13/2026

Proposed Solution:

Rebuild approximately 11.9 miles of the EVP (Eagle Valley-Philipsburg) 115 kV line with a new conductor and upgrade terminal equipment to meet or exceed the new line rating. Adjust remote-end relaying as necessary.

Ratings:

Eagle Valley – Philipsburg 115 kV Line

- Before Proposed Solution: 137 / 174 / 171 / 191 MVA (SN/SE/WN/WE)
- After Proposed Solution: 232 / 282 / 263 / 334 MVA (SN/SE/WN/WE)

Alternatives Considered:

Maintain existing conditions with risk of equipment failure due to equipment deterioration.

Estimated Project Cost:	$38.41 M
Projected In-Service:	12/29/2028
Project Status:	Conceptual
Model:	2024 RTEP model for 2039 Summer (50/50)

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

08/03/2026 – V1 – Original version posted to pjm.com