

Subregional RTEP Committee – Mid-Atlantic FirstEnergy Supplemental Projects

February 13, 2025

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

Need Number: PN-2024-026

Process Stage: Solution Meeting SRRTEP-MA - 02/13/2025

Previously Presented: Need Meeting 10/17/2024

Project Driver: Equipment Condition/Performance/Risk

Specific Assumption References:

System Performance Global Factors - System reliability and performance - Substation/Line equipment limits - Load at Risk and Customers Impacted Line Condition

Rebuild/Replacement - Negative impact on equipment health and/or system reliability -

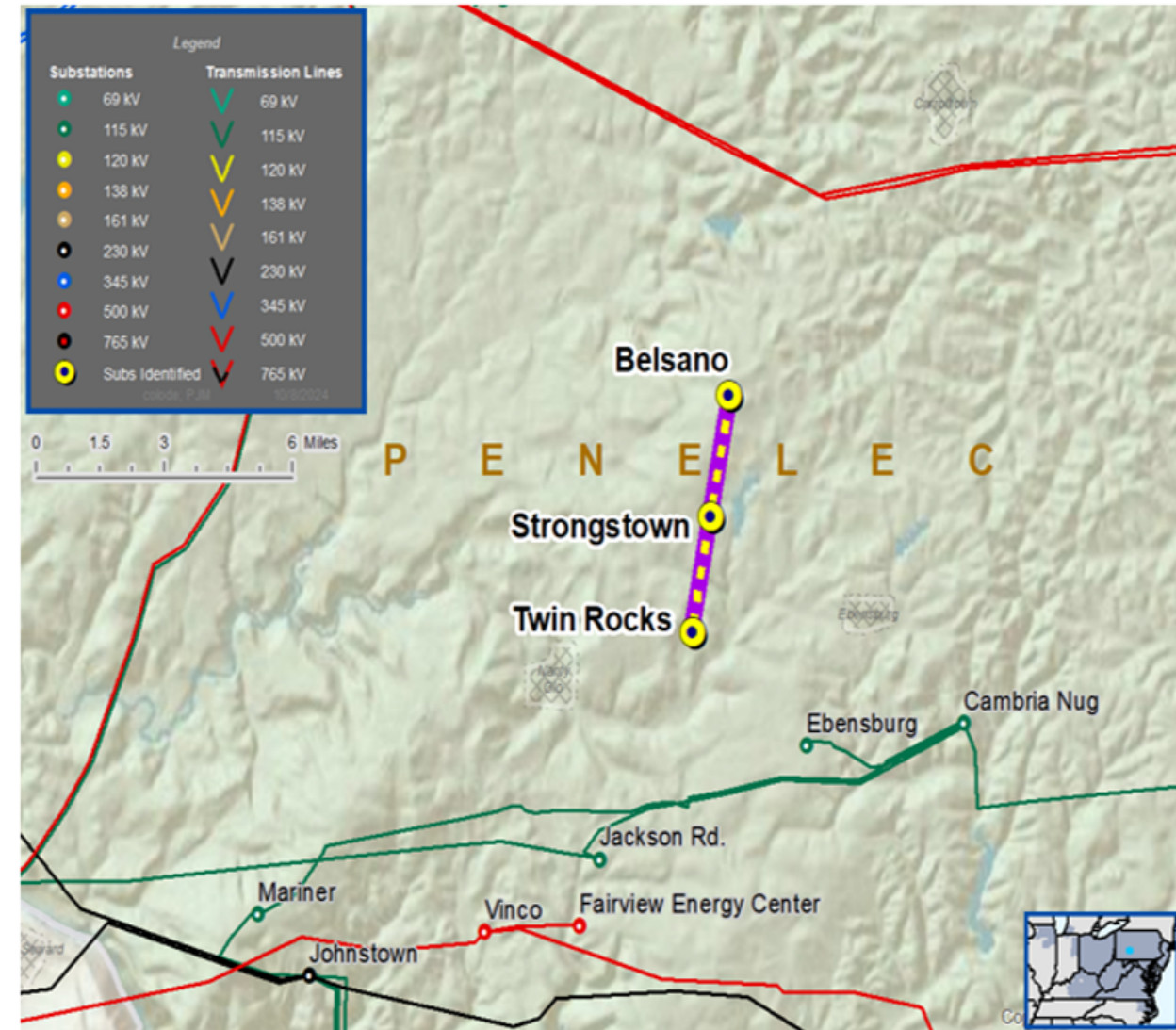
Limited availability of spare parts and/or vendor technical support

Problem Statement:

- Switches A-119 and A-120 on the Glory – Nanty Glo – Spangler 46 kV Line are obsolete and problematic to repair. - Replacement components are difficult to source leading to non-standard repairs. - The existing switches are on a four-pole wood box structure and can not be maintained without a complete line outage due to the required clearance requirements and are deteriorating with limited remaining life. - The lines are currently limited by terminal equipment.

Transmission Line / Substation Locations: Strongtown – Belsano 46 kV Line Existing Line Rating MVA (SN / SE / WN / WE): 55 / 69 / 72 / 83 Existing Conductor Rating MVA (SN / SE / WN / WE): 81 / 98 / 91 / 116

Transmission Line / Substation Locations: Strongtown – Twin Rocks 46 kV Line Existing Line Rating MVA (SN / SE / WN / WE): 55 / 69 / 72 / 83 Existing Conductor Rating MVA (SN / SE / WN / WE): 67 / 81 / 75 / 95



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Proposed Solution:

Strongstown - Belsano Replace line switch A119: Relocate and replace obsolete and non-repairable line switch Strongstown - Belsano A119. Upgrade switch to include SCADA controlled motor operators. Remove 4-pole wood structure and replace with appropriate tap structure.. Estimated Cost: \$0.93 M

Strongstown - Twin Rock Replace line switch A120: Relocate and replace obsolete and non-repairable line switch Strongstown - Twin Rock A120. Upgrade switches to include SCADA controlled motor operators. Remove 4-pole wood structure and replace with appropriate tap structure.. Estimated Cost: \$0.93 M

Transmission Cost Estimate: \$1.86 M











Alternatives Considered:

Maintain equipment in existing condition with elevated risk of failure due to equipment deterioration.

Projected In-Service: 11/13/2026

Project Status: Conceptual



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

2/3/2025 – V1 – Original version posted to pjm.com