

Transmission Expansion Advisory Committee

FirstEnergy Supplemental Projects

MetEd 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

Need Number: ME-2024-006

Process Stage: Solution Meeting – TEAC – 10/06/2026

Previously Presented: Need Meeting – TEAC – 04/30/2024

Project Driver:

Operational Flexibility and Efficiency

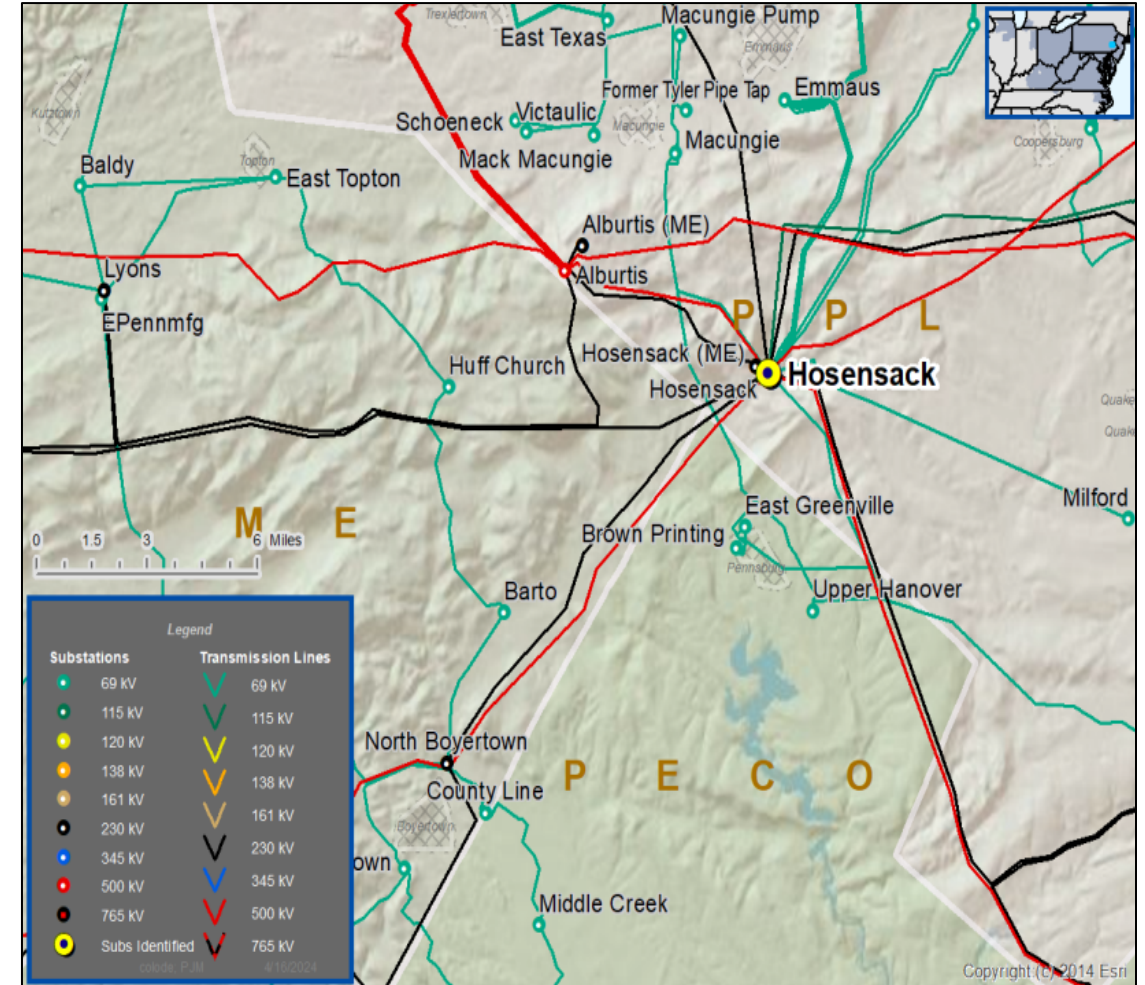
Specific Assumption References:

System Performance Projects Global Factors

- Add/Expand Bus Configuration
- Load at risk in planning and operational scenarios
- Reduce the amount of exposed potential local load loss during contingency conditions
- Eliminate simultaneous outages to multiple networked elements

Problem Statement:

Hosensack Substation has a 230 kV straight bus configuration with terminals to five transmission lines, one 230/115 kV transformer, two 230 kV capacitor banks, and two 230 kV bus ties to PPL's Hosensack Substation. A faulted breaker would result in an outage to the entire station. Bus faults or a transformer fault would result in an outage to the majority of the substation.



Need Number: ME-2024-006

Process Stage: Solution Meeting – TEAC – 10/06/2026

Proposed Solution:

Expand the Hosensack 230 kV bus into a double-breaker double-bus configuration.

At Hosensack Substation:

- Replace two existing 230 kV circuit breakers and associated disconnect switches
- Install five new 230 kV circuit breakers and associated disconnect switches
- Replace 230 kV wavetrapp
- Install a new control building
- Install standard relay panel
- Re-terminate 230 kV lines into the station

At North Boyertown Substation:

- Revise relay settings

At Albertis Substation:

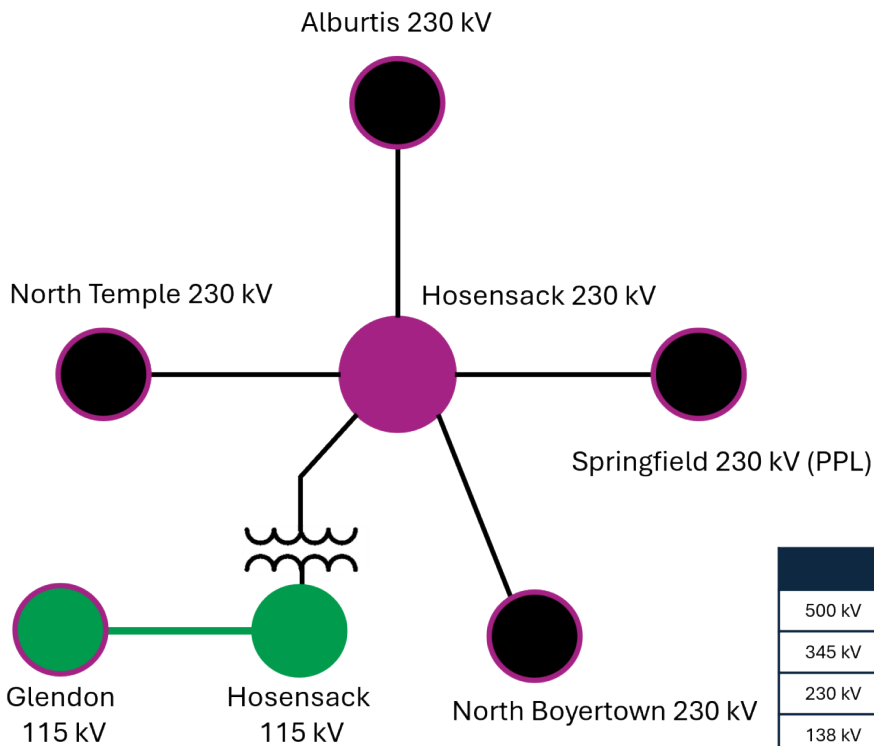
- Revise relay settings

At North Temple Substation:

- Revise relay settings

At Glendon:

- Revise relay settings
- Replace substation conductor



Legend	
500 kV	
345 kV	
230 kV	
138 kV	
115 kV	
69 kV	
46 kV	
34.5 kV	
23 kV	
New	



MetEd Transmission Zone M-3 Process Hosensack Substation

Need Number: ME-2024-006

Process Stage: Solution Meeting – TEAC – 10/06/2026

Ratings:

Alburtis - Hosensack 230 kV Line

- Before Proposed Solution: 709 / 869 / 805 / 1031 MVA (SN/SE/WN/WE)
- After Proposed Solution: 709 / 869 / 805 / 1031 MVA (SN/SE/WN/WE)

Hosensack - North Temple 230 kV Line

- Before Proposed Solution: 515 / 615 / 602 / 703 MVA (SN/SE/WN/WE)
- After Proposed Solution: 519 / 638 / 602 / 771 MVA (SN/SE/WN/WE)

Hosensack - North Boyertown 230 kV Line

- Before Proposed Solution: 468 / 569 / 529 / 674 MVA (SN/SE/WN/WE)
- After Proposed Solution: 468 / 569 / 529 / 674 MVA (SN/SE/WN/WE)

Hosensack - Springfield (PPL) 230 kV Line

- Before Proposed Solution: 647 / 801 / 746 / 903 MVA (SN/SE/WN/WE)
- After Proposed Solution: 709 / 869 / 805 / 1031 MVA (SN/SE/WN/WE)

Glendon - Hosensack 115 kV Line

- Before Proposed Solution: 86 / 110 / 122 / 137 MVA (SN/SE/WN/WE)
- After Proposed Solution: 134 / 162 / 151 / 191 MVA (SN/SE/WN/WE)

Alternatives Considered:

Maintain existing condition with elevated risk of failure.

Estimated Project Cost: \$39.36 M

Projected In-Service: 12/31/2030

Project Status: Conceptual

Model: 2024 RTEP model for 2029 Summer (50/50)

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

09/25/2026 – V1 – Original version posted to pjm.com