

# Transmission Expansion Advisory Committee – MetEd Supplemental Projects

February 8, 2022

# Solution

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-2021-002

**Process Stage:** Solution Meeting 2/8/2022

**Previously Presented:** Need Meeting 10/05/2021

**Project Driver:**

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

**Specific Assumption Reference:**

System Condition Projects

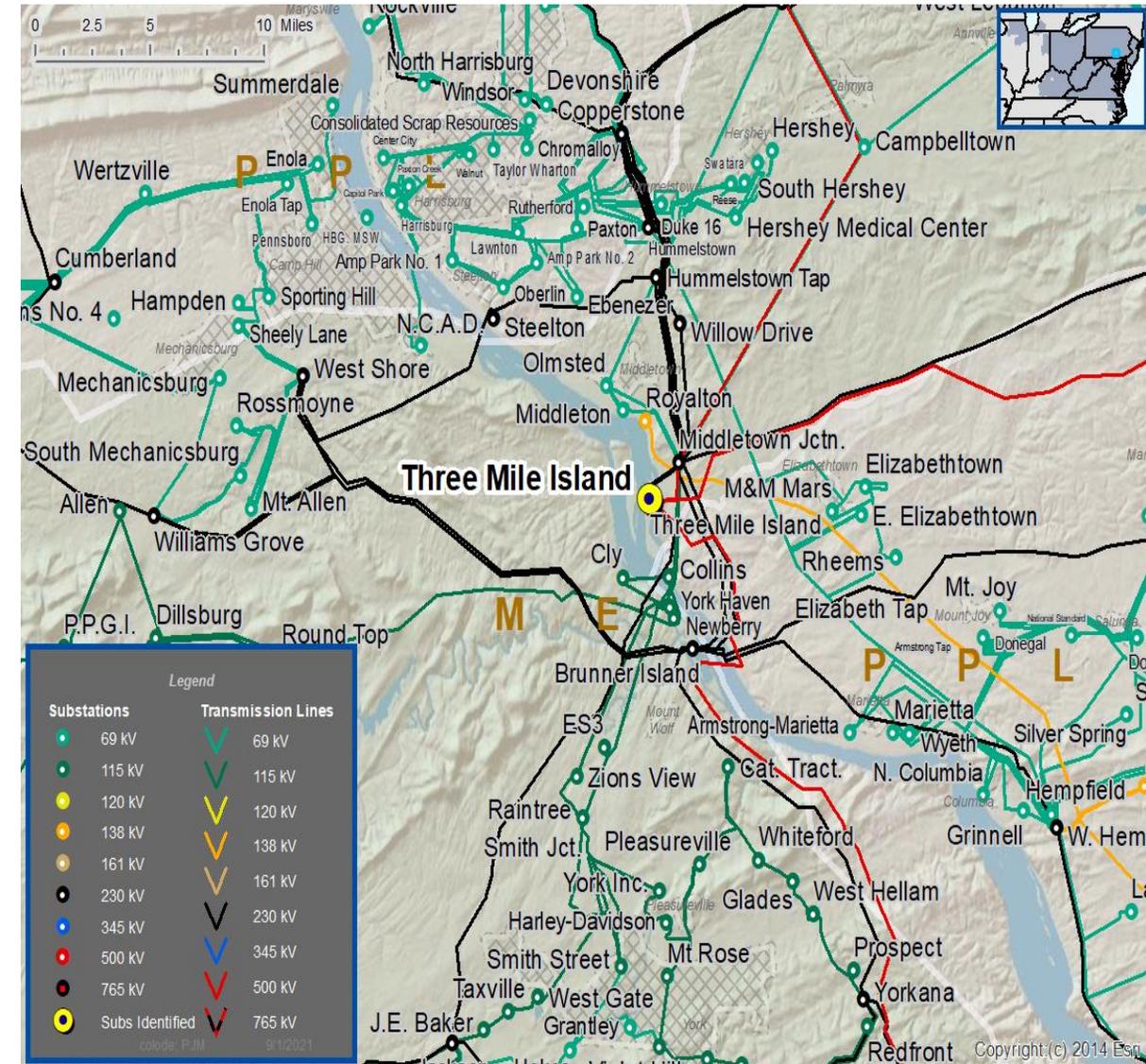
- Substation Condition Rebuild/Replacement

**Problem Statement:**

TMI 500 500/230 kV Transformer

- Transformer has increased failure probability due to:
  - Transformer is 50 years old.
  - High level gases
  - Obsolete parts
  - Oil leaks

Transformer circuit rating is the existing transformer rating of 840/~~1070~~ MVA (SN/SE).



**Need Number:** ME-2021-002

**Process Stage:** Solutions Meeting 2/8/2021

**Proposed Solution:**

*Replace TMI #1 500/230 kV Transformer*

- Replace the #1 500/230 kV transformer and associated equipment with a 450/600/750 MVA transformer
- Install a 230 kV circuit breaker

**Transformer Rating:**

TMI #1 500/230 kV Transformer

- Before Proposed Solution: 840/1070/1049/1219 MVA (SN/SE/WN/WE)
- After Proposed Solution (anticipated): 972/1100/1182/1364 MVA (SN/SE/WN/WE)

**Alternatives Considered:**

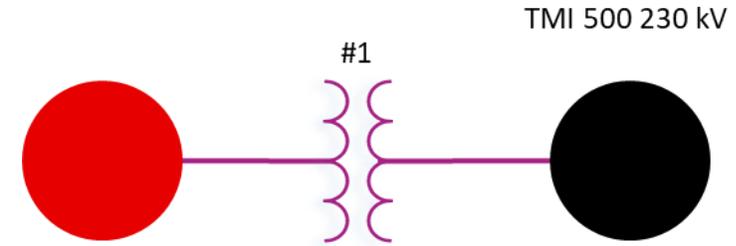
- Retire TMI #1 500/230 kV Transformer

**Estimated Cost:** \$25.2M

**Projected In-Service:** 11/1/2022

**Project Status:** Conceptual

**Model:** 2021 Series 2026 Summer RTEP 50/50



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

# Questions?



# 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

1/28/2022 - V1 – Original version posted to pjm.com

2/4/2022 - V2 – Updated Projected IS date on slide #4