

SRRTEP Committee: Mid-Atlantic PSE&G Supplemental Projects

August 15th, 2024

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



PSE&G Transmission Zone M-3 Process East Rutherford Area

Need Number: PSEG-2024-0002

Process Stage: Solutions Meeting 8/15/2024

Previously Presented: Need Meeting 5/16/2024

Supplemental Project Driver:

- Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

[PSE&G 2024 Annual Assumptions](#)

- Equipment Criticality, Consequence of Failure

Problem Statement:

- The East Rutherford 138/26 kV transformers No. 132-1 and 132-2 are exhibiting oil and nitrogen leaks, allowing moisture intrusion to accelerate the deterioration of the dielectric insulation system. These transformers are 65 years old with an increased probability of failure.

Model: 2023 Series 2028 Summer RTEP 50/50





Need Number: PSEG-2024-0002

Process Stage: Solutions Meeting 8/15/2024

Proposed Solution:

- Replace existing transformers 132-1 and 132-2 with six (6) single-phase transformers (3 per bank)
- Install one (1) additional single-phase transformer to be used as a spare in the event of failure of one of the in-service transformers
- Add one (1) additional 138kV bus-tie circuit breaker to existing 138kV straight bus
- Add two (2) 138kV transformer head breakers
- **Estimated Cost: \$43.1M**

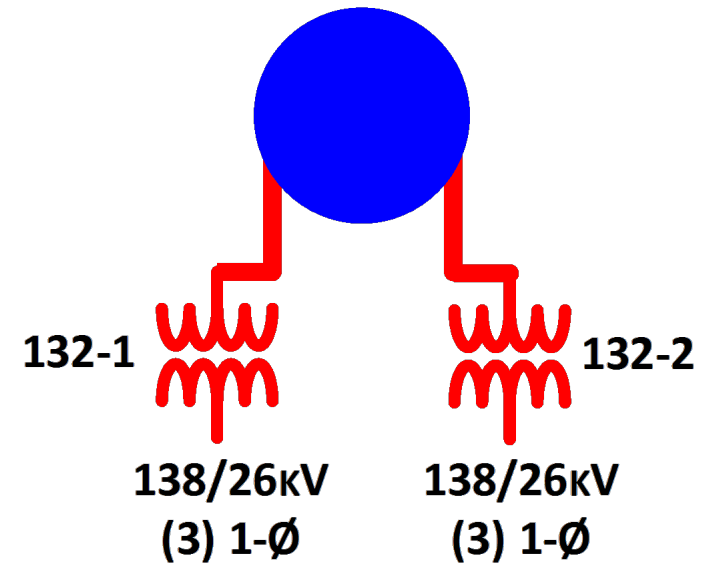
Alternative Considered:

- Replace existing transformers 132-1 and 132-2 with six (6) single-phase transformers (3 per bank)
- Add one (1) additional 138kV bus-tie circuit breaker to existing 138kV straight bus
- Add two (2) 138kV transformer head breakers
- **Estimated Cost: \$41.0M**



Projected In-Service: 5/31/2028

Project Status: Conceptual

EAST RUTHERFORD



Legend:

	In Service 138kV
	New Project

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/xx/2024 – V1 – Original version posted to pjm.com