

Subregional RTEP Committee – Mid-Atlantic First Energy (JCPL) Supplemental Projects

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: JCPL-2023-058

Process Stage: Solution Meeting 01/18/2024

Previously Presented: Need Meeting 11/16/2023

Project Driver:

Customer Service

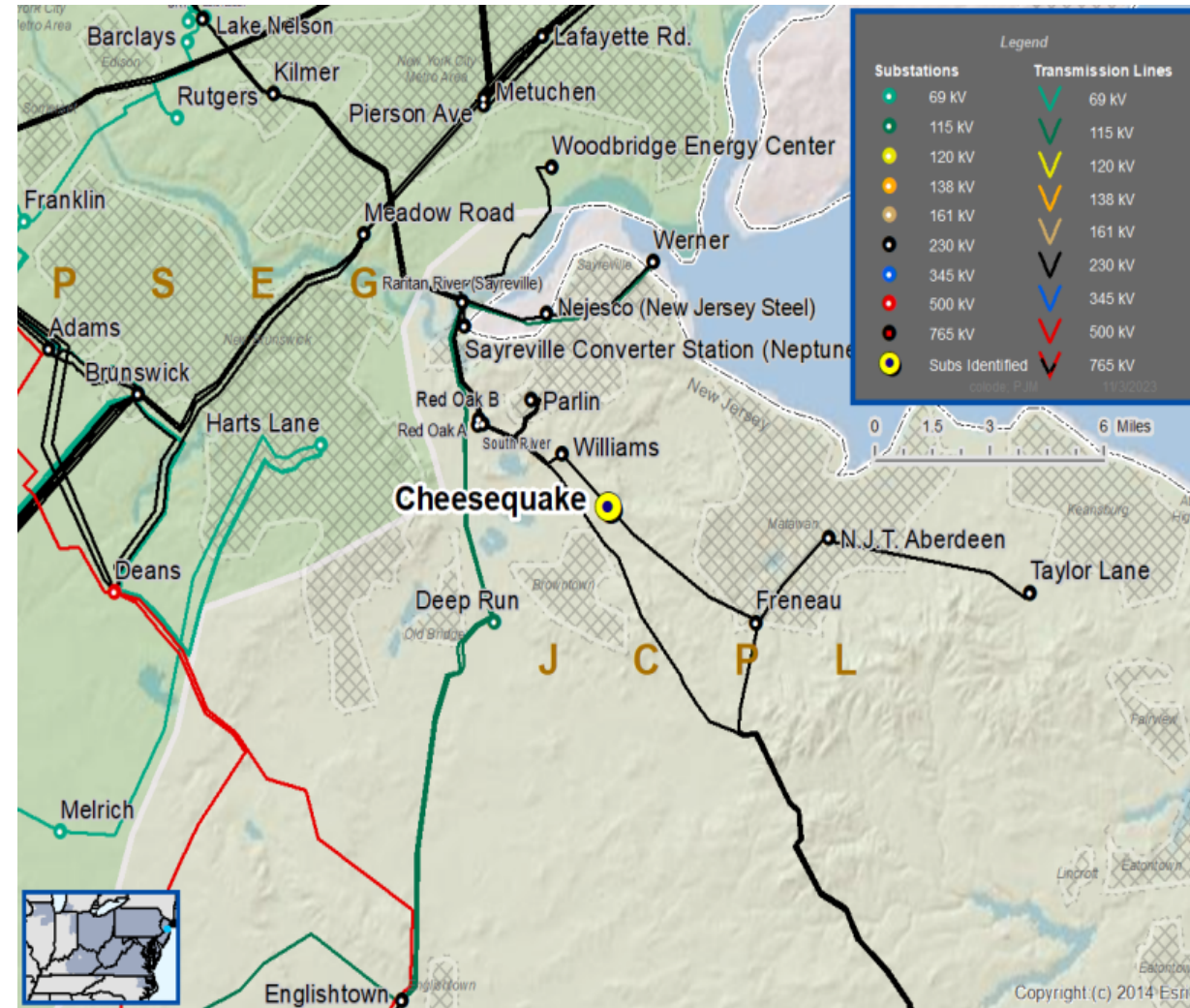
Specific Assumption Reference:

New customer connection requests will be evaluated per FirstEnergy’s “Requirements for Transmission Connected Facilities” document and “Transmission Planning Criteria” document.

Problem Statement:

New Customer Connection - A customer requested 34.5 kV service for load of approximately 14 MVA; location is near Cheesequake Substation.

Requested in-service date is 06/01/2025



Need Number: JCPL-2023-058

Process Stage: Solution Meeting 01/18/2024

Proposed Solution:

Tap the Freneau – Raritan River 34.5 kV Line at Cheesequake Substation

- Install one SCADA controlled line switch toward Freneau Substation and build approximately one to two spans toward Cheesequake Substation and install one SCADA controlled tap switch
- Install 34.5 kV revenue metering equipment
- Modify relay schemes/settings at terminal stations

Alternatives Considered:

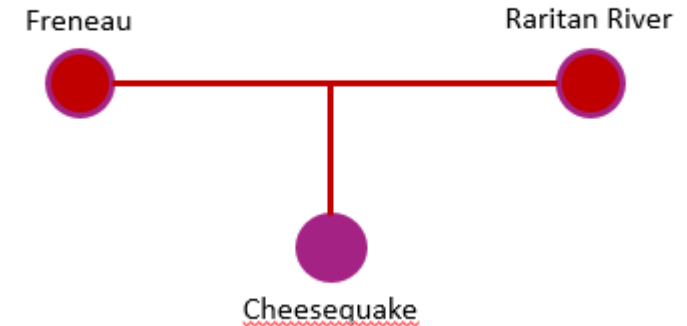
- No other feasible alternatives were considered to serve the customer load due to the proximity to Cheesequake Substation.

Estimated Project Cost: \$1.3M

Projected In-Service: 06/01/2024

Project Status: Engineering

Model: 2023 RTEP model for 2028 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

1/8/2023 – V1 – Original version posted to pjm.com