

Subregional RTEP Committee – Mid-Atlantic FirstEnergy Supplemental Projects

September 19, 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

Need Number: JCPL-2024-044

Process Stage: Solution Meeting – 09/19/2024

Previously Presented: Need Meeting – 08/15/2024

Project Driver:

Customer Service

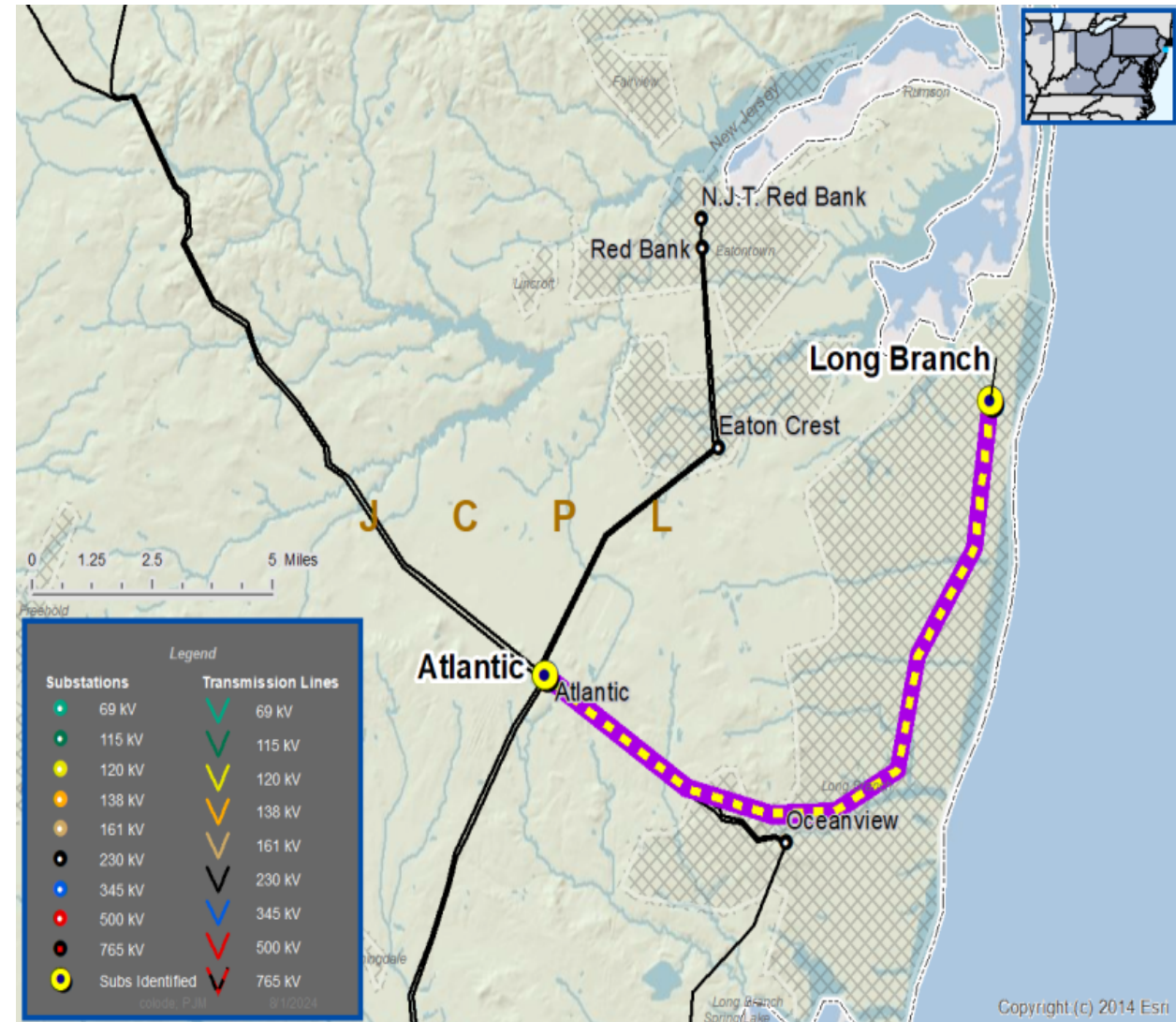
Specific Assumption Reference:

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 retail customer requested 34.5 kV service for load of approximately 20 MVA near the Atlantic – Long Branch 34.5 kV P42 Line. The request is approximately 3 miles from Long Branch Substation.

Requested in-service date is 12/18/2026



JCPL Transmission Zone M-3 Process Atlantic – Long Branch 34.5 kV P42 Line Customer Connection

Need Number: JCPL-2024-044

Process Stage: Solution Meeting – 09/19/2024

Proposed Solution:

34.5 kV line loop and ring bus

- Construct a four breaker 34.5 kV ring bus.
- Loop the Atlantic – Long Branch 34.5 kV P42 Line into the new substation. The loop is approximately 0.1 miles in length.
- Modify relay settings at Atlantic Substation and Long Branch Substation.

Alternatives Considered:

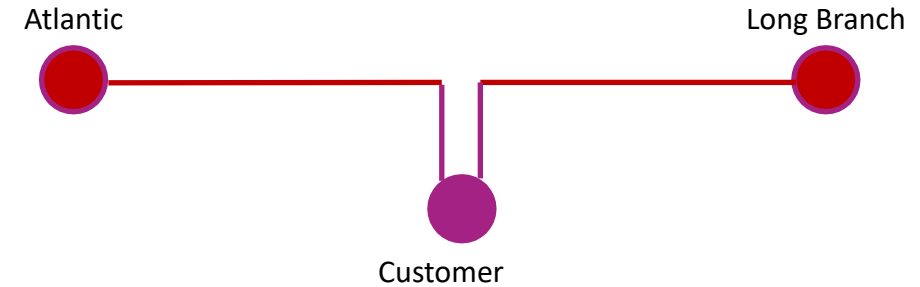
Other 34.5 kV lines in the area were considered for the new service connection. The P42 line was selected due to its proximity to the customer.

Estimated Project Cost: \$8.1M

Projected In-Service: 4/1/2027

Project Status: Conceptual

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	



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

9/16/2024 – V1 – Original version posted to pjm.com