

Subregional RTEP Committee – Mid-Atlantic FirstEnergy Supplemental Projects

February 13, 2025

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-2024-033

Process Stage: Solution Meeting SRRTEP-MA - 02/13/2025

Previously Presented: Need Meeting 05/16/2024

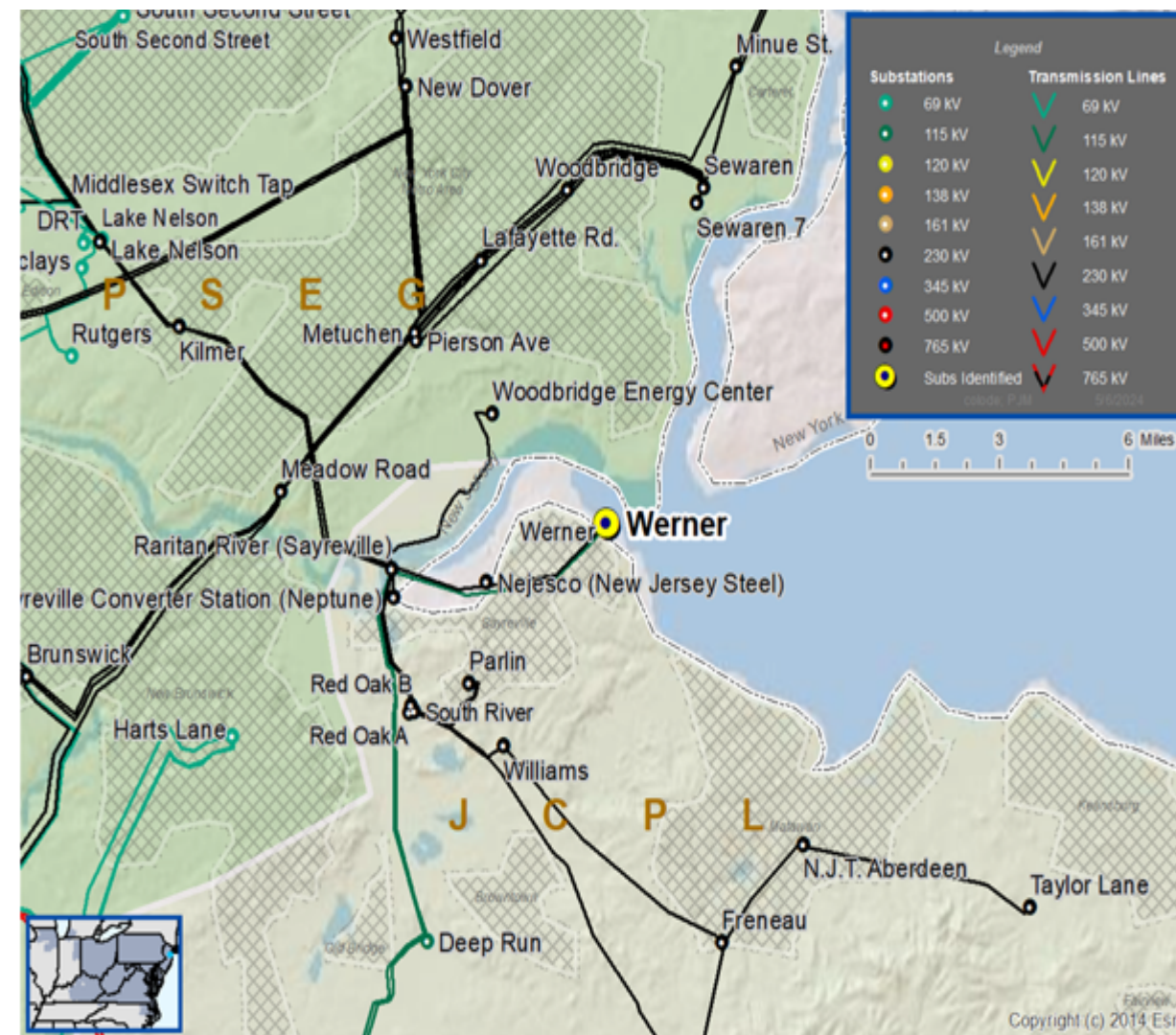
Project Driver: Customer Service

Specific Assumption References:

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 3 MVA near Werner Substation. Requested in-service date is 10/01/2024



Need number(s): JCPL-2024-033

Process Stage: Solution Meeting SRRTEP-MA - 02/13/2025

Proposed Solution:

Raritan River - Werner 34.5 kV U99 Line Customer Connection: Tap the Raritan River - Werner 34.5 kV U99 Line Extend tap line ~200 ft to customer Add SCADA controlled switches Modify relay settings at Raritan River Substation and Werner Substation. Estimated Cost: \$0.7 M

Transmission Cost Estimate: \$0.7 M











Alternatives Considered:

Alternative 34.5 kV lines were considered, but the U99 Line was selected due to its proximity to the customer.

Projected In-Service: 03/31/2025

Project Status: Conceptual



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

Need Number: JCPL-2024-035

Process Stage: Solution Meeting 02/13/2024

Previously Presented: Need Meeting 05/16/2024

Project Driver:

Customer Service

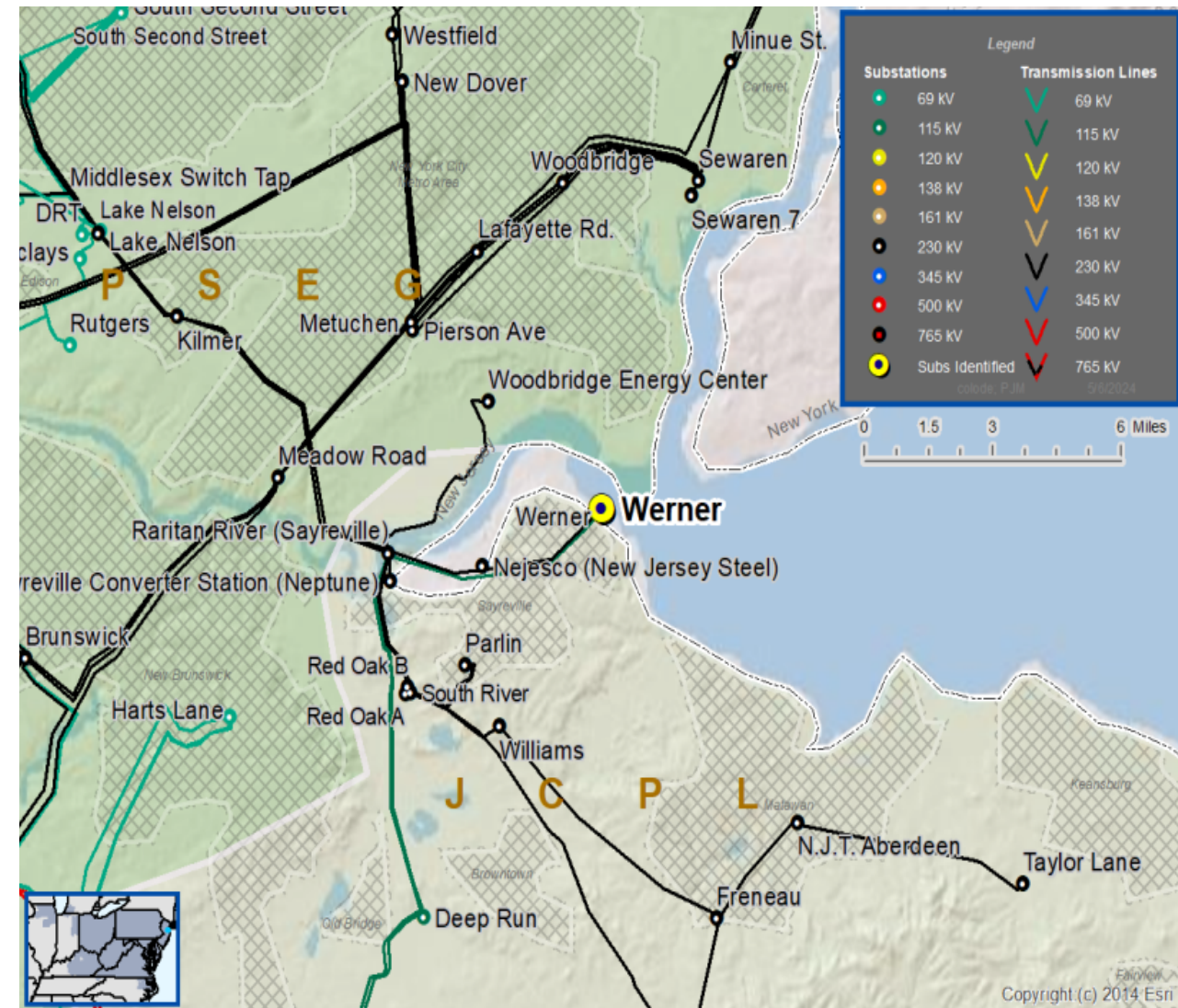
Specific Assumption Reference:

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 1.5 MVA near Werner Substation.

Requested in-service date is 01/01/2025



Need number(s): JCPL-2024-035

Process Stage: Solution Meeting SRRTEP-MA - 02/13/2025

Proposed Solution:

Raritan River - Werner 34.5 kV U99 Line Customer Connection: Tap the Raritan River - Werner 34.5 kV U99 Line
Extend tap line ~200 ft to customer Add SCADA controlled switches Modify relay settings at Raritan River
Substation and Werner Substation. Estimated Cost: \$0.5 M

Transmission Cost Estimate: \$0.5 M











Alternatives Considered:

Alternative 34.5 kV lines were considered, but the U99 Line was selected due to its proximity to the customer

Projected In-Service: 03/31/2025

Project Status: Conceptual



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

2/3/2025 – V1 – Original version posted to pjm.com

2/12/2025 – V2 – JCPL-2024-035 need slide corrected