

Subregional RTEP Committee – Mid-Atlantic FirstEnergy Supplemental Projects

May 15th 2025

Change to the Existing Projects

Penelec Transmission Zone M-3 Process Warren – Falconer 115 kV Line: New Customer

s3291.1: Originally presented in 07/20/2023 and 02/15/2024 SRRTEP Mid-Atlantic meetings. Changes are marked in **red**.

Project Driver:

Customer Service

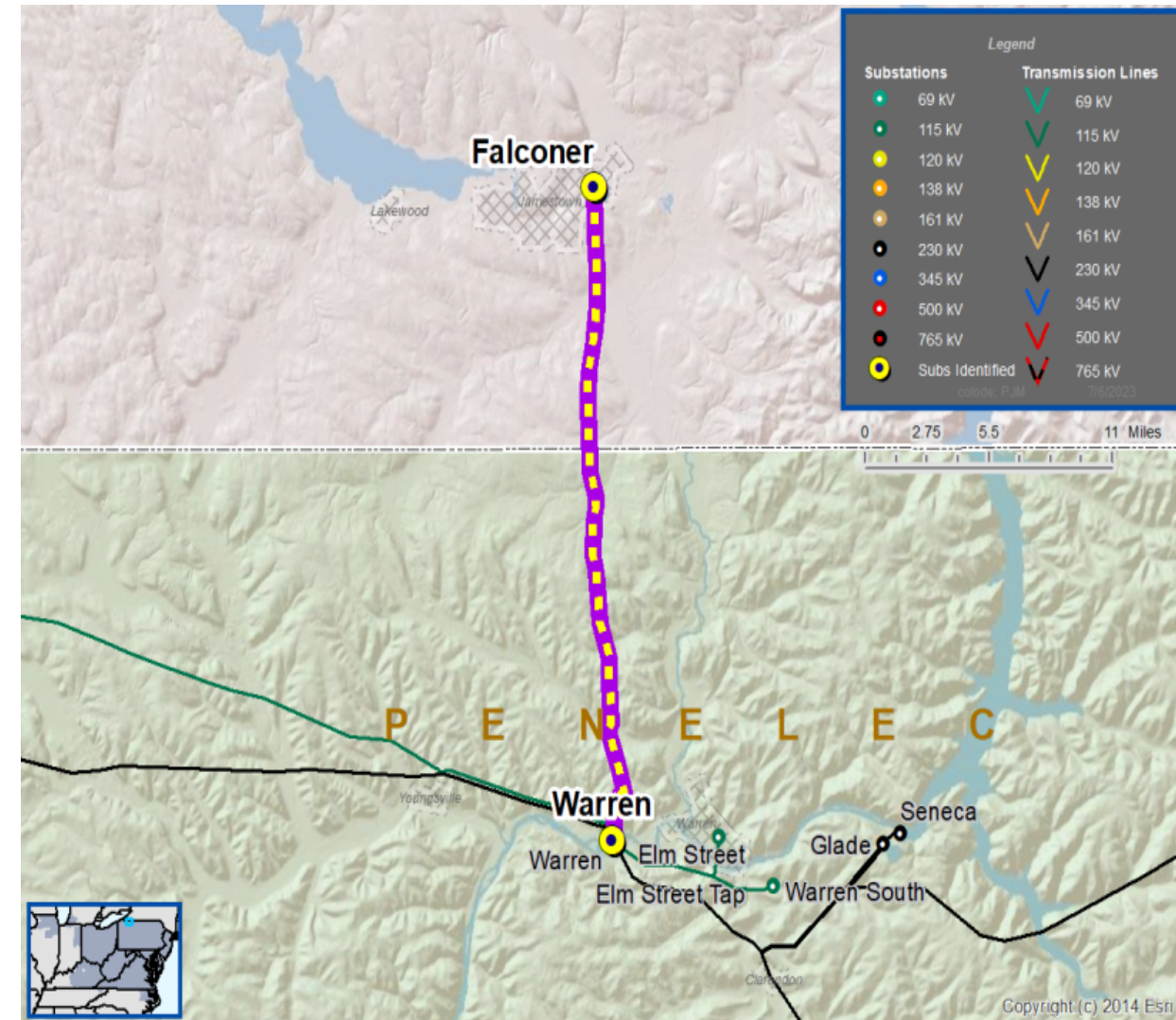
Specific Assumption Reference:

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 115 kV service; anticipated load is 22.4 MVA near the Warren – Falconer 115 kV Line.

Requested in-service date is ~~12/31/2024~~ **04/28/2028**.





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Proposed Solution:

Provide 115 kV service from the Warren – Falconer 115 kV Line:

- Tap the Warren – Falconer 115 kV Line, install switches and build approximately 190 ft of transmission line from tap point to customer substation
- Construct new 115 kV switching station near the Warren - Falconer 115 kV Line
- Install two SCADA controlled transmission line disconnect switches with full load break interrupters
- Install one 115 kV circuit breaker (Normally Open)
- Install one 115 kV revenue metering package at customer substation
- Adjust relay settings at Warren Substation
- ~~Operate disconnect switch towards Falconer Substation as normally open~~

Alternatives Considered:

- No feasible alternatives considered due to proximity of customer load to Warren – Falconer 115 kV Line.

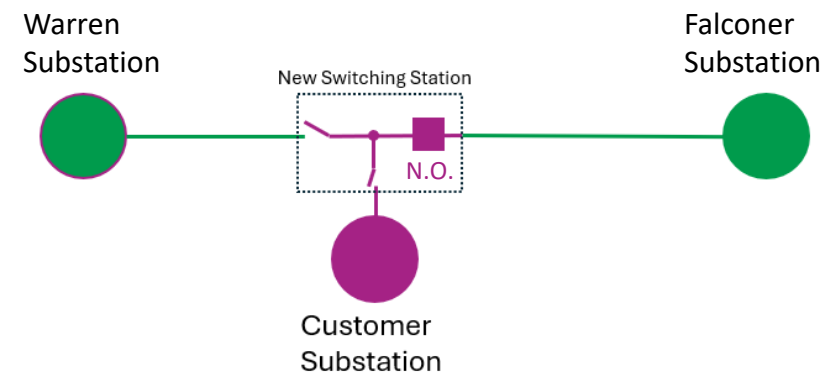
Estimated Project Cost: ~~\$1.5M~~ **\$8.45M**

Projected In-Service: ~~04/28/2027~~ **04/28/2028**

Project Status: Engineering

Model: 2023 Series 2028 RTEP Case Summer 50/50

Penelec Transmission Zone M-3 Process Warren – Falconer 115 kV Line: New Customer



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

03/03/2024 – V1 – Original version posted to pjm.com