Subregional RTEP Committee – Mid-Atlantic
FirstEnergy (Met-Ed) Supplemental Projects

July 20, 2023

Needs

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

Met-Ed Transmission Zone M-3 Process
Cleona –Campbelltown 69 kV Line

Need Number: ME-2023-009

Process State: Need Meeting – 07/20/2023

Project Driver:

Performance and Risk, Operational Flexibility and Efficiency

Specific Assumption Reference:

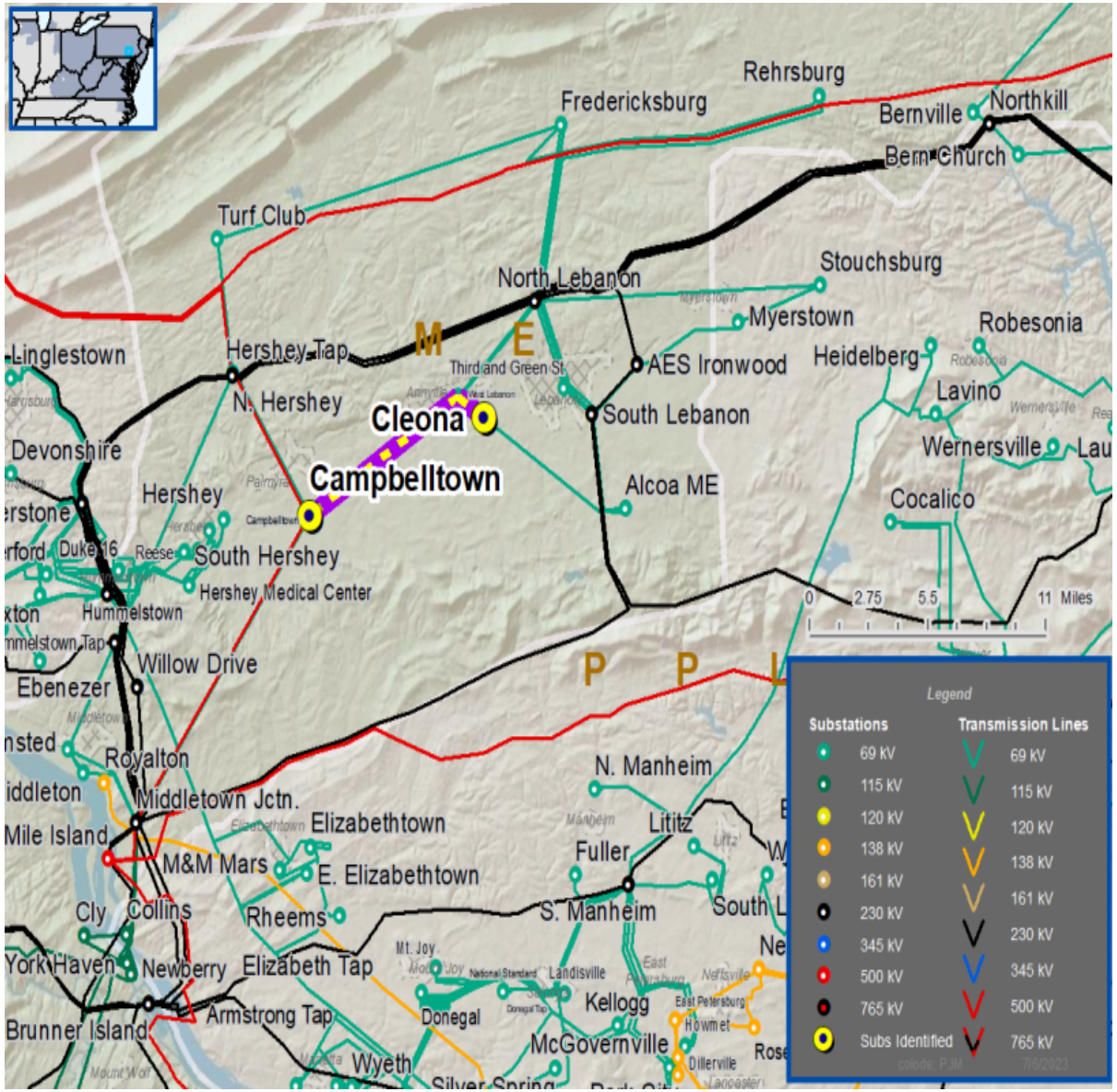
System Performance Projects Global Factors

- System reliability and performance
- Reliability of Non-Bulk Electric System (Non-BES) Facilities

Upgrade Relay Schemes

Problem Statement:

- An N-1-1 outage of the N. Hershey – Mill St. - Campbelltown 69 kV Line & Middletown Jct. 230-69 kV Transformer #3 can cause the North Lebanon - Annville 69 kV line to overload to 131% of its Summer Emergency rating.



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

MetEd Transmission Zone M-3 Process
Middletown Junction-Smith Street #1 115 kV New Customer

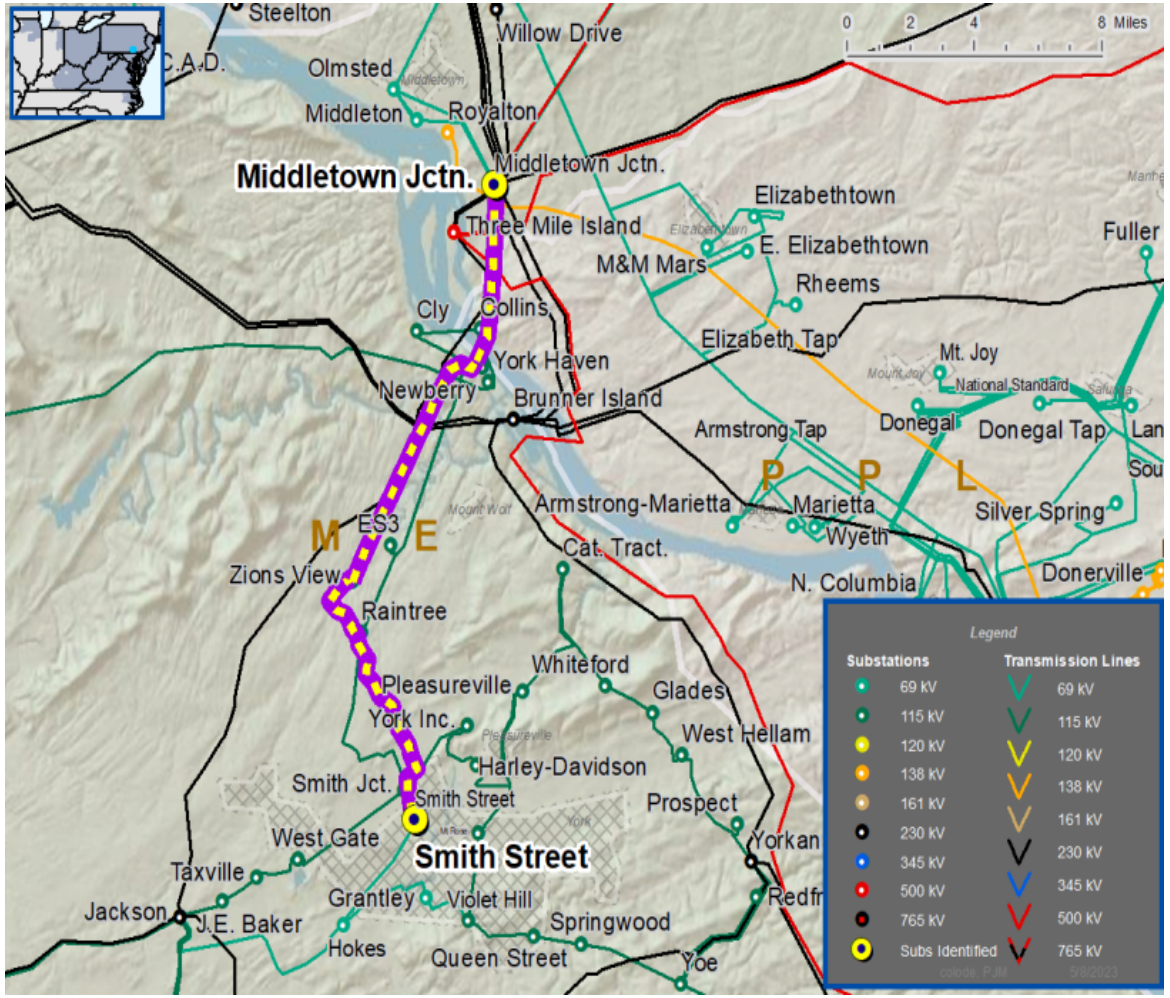
Need Number: ME-2023-005
Process Stage: Solution Meeting – 07/20/2023
Previously Presented: Need Meeting – 5/18/2023

Project Driver(s):
Customer Service

Specific Assumption Reference(s)
New customer connection request will be evaluated per FirstEnergy's "Requirements for Transmission Connected Facilities" document and "Transmission Planning Criteria" document.

Problem Statement
New Customer Connection - has requested a new 115 kV delivery point near the Middletown Junction-Smith Street #1 115 kV line. The anticipated load of the new customer connection is 12 MVA.

Requested in-service date is 05/31/2024.



Met-Ed Transmission Zone M-3 Process
Middletown Junction-Smith Street #1 kV New Customer- Solution

Need Number: ME-2023-005

Process Stage: Solution Meeting – 07/20/2023

Proposed Solution:

115 kV Transmission Line Tap

- Install three SCADA controlled transmission line switches
- Construct approximately 0.2 miles of transmission line using 556 ACSR 26/7 from tap point to customer substation
- Install one 115 kV revenue metering package at customer substation
- Modify relay settings at Middletown Junction and Smith Street substations

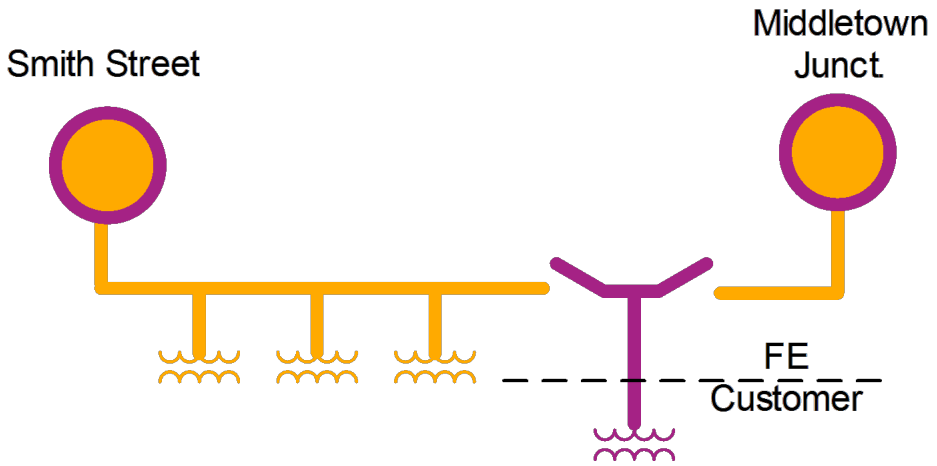
Alternatives Considered:

- No other feasible transmission solution

Estimated Project Cost: $4.9M

Projected In-Service: 7/3/2024

Status: Engineering



Legend	
500 kV	
345 kV	
115 kV	
69 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

7/10/2023 – V1 – Original version posted to pjm.com