

Subregional RTEP Committee – Mid-Atlantic FirstEnergy Supplemental Projects

MetEd Transmission Zone

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

MetEd Transmission Zone M-3 Process

Carsonia - Lyons - North Boyertown 69 kV 75 Line: Customer Connection, PA

Need Number: ME-2026-008

Process Stage: Need Meeting – SRRTEP-MA – 08/13/2026

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 customer requested 69 kV service for load of approximately 13 MW near the Carsonia - Lyons - North Boyertown 69 kV 75 Line. The request is approximately 4.1 miles from Clouser's Crossing and 2.4 miles from Lyons Tap.

Requested in-service date is 10/31/2028.



MetEd Transmission Zone M-3 Process Cly - Smith Street 115 kV Line: Customer Connection, PA

Need Number: ME-2026-011

Process Stage: Need Meeting – SRRTEP-MA – 08/13/2026

Project Driver:

Customer Service

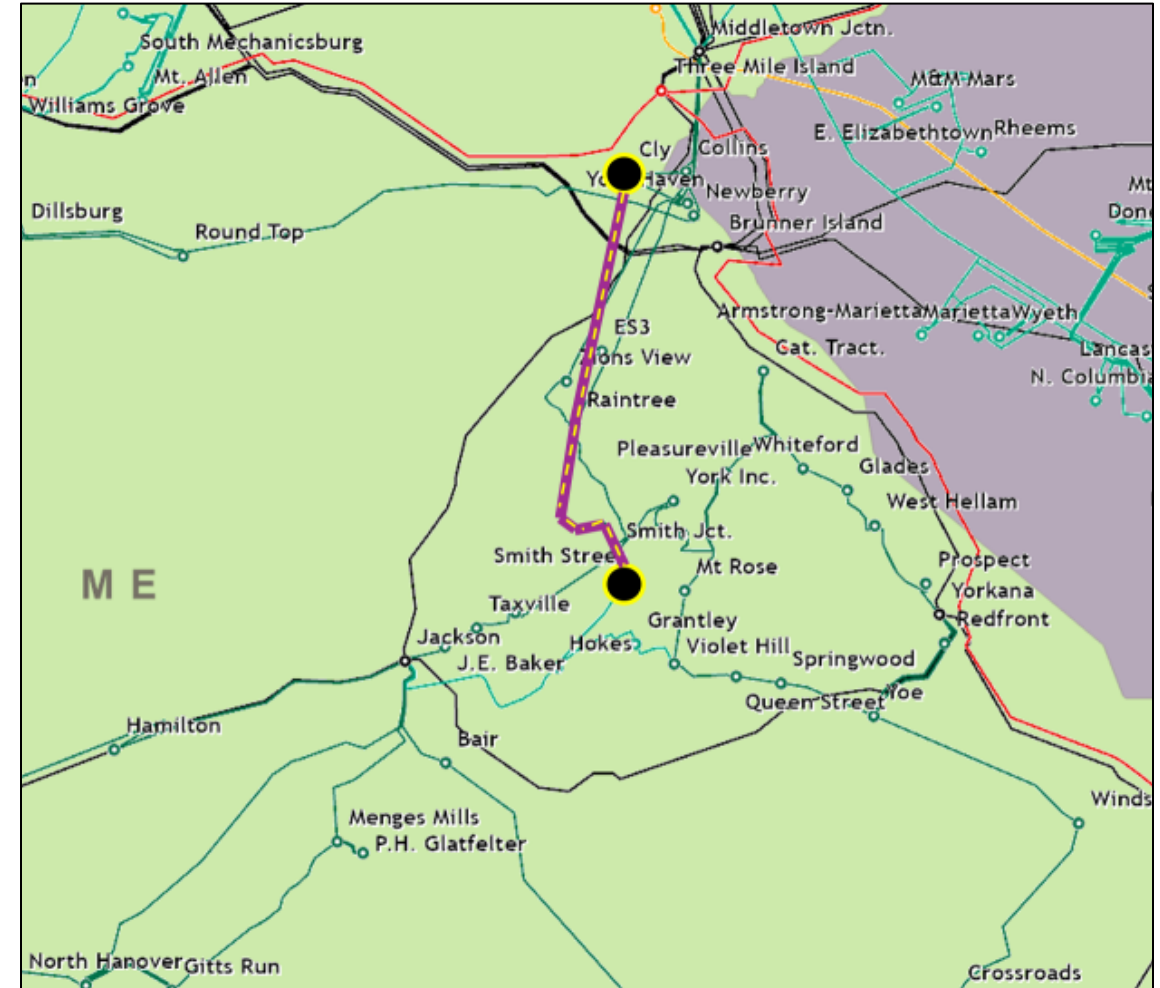
Specific Assumption References:

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 customer requested 115 kV service for load of approximately 10 MW near the Cly - Smith Street 115 kV Line. The request is approximately 0.2 miles from Cly Substation.

Requested in-service date is 2/28/2029.



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: ME-2024-023

Process Stage: Solution Meeting – SRRTEP-MA – 08/13/2026

Previously Presented: Need Meeting – SRRTEP-MA – 11/14/2024

Project Driver:

Equipment Condition/Performance/Risk

Specific Assumption References:

System Performance Global Factors

- Past system reliability/performance

Line Condition Rebuild/Replacement

- Age/condition of wood pole transmission line structures

Problem Statement:

The Muhlenberg – North Temple 69 kV Line was constructed approximately 70 years ago and is approaching end of life. The line is approximately five miles long with 143 total structures; 128 are wood pole structures and 15 are steel transmission line structures.

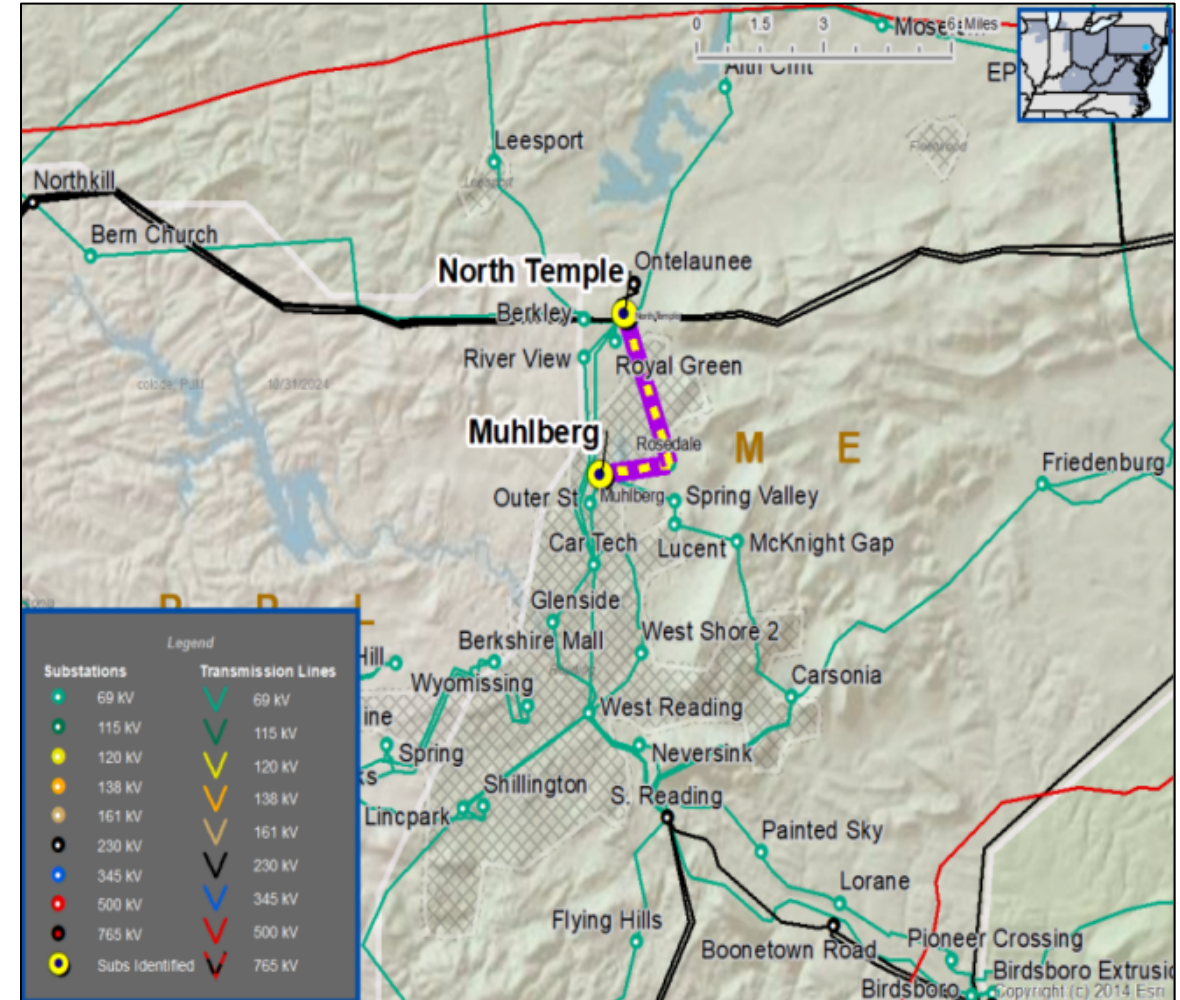
Since 2019, the line has had seven unscheduled, sustained outages caused by insulator or hardware failures.

Muhlenberg – Rosedale 69 kV Line

- Existing Line Ratings: 105 / 125 / 125 / 143 MVA (SN/SE/WN/WE)
- Existing Line Conductor Ratings: 111 / 134 / 125 / 159 MVA (SN/SE/WN/WE)

Rosedale – North Temple 69 kV Line

- Existing Line Ratings: 111 / 134 / 125 / 159 MVA (SN/SE/WN/WE)
- Existing Line Conductor Ratings: 111 / 134 / 125 / 159 MVA (SN/SE/WN/WE)



MetEd Transmission Zone M-3 Process

Muhlenberg - North Temple 69 kV 834 Line Rebuild, PA

Need Number: ME-2024-023

Process Stage: Solution Meeting – SRRTEP-MA – 08/13/2026

Proposed Solution:

- Rebuild 5.4 miles of the Muhlenberg - North Temple 69 kV 834 Line and install new conductor.
- At Rosedale Substation, replace existing disconnect switches.
- At North Temple Substation, replace existing disconnect switches.
- At Muhlenberg Substation, adjust relay settings.

Ratings:

Muhlenberg - Rosedale 69 kV Line

- Before Proposed Solution: 105 / 125 / 129 / 143 MVA (SN/SE/WN/WE)
- After Proposed Solution: 139 / 169 / 158 / 201 MVA (SN/SE/WN/WE)

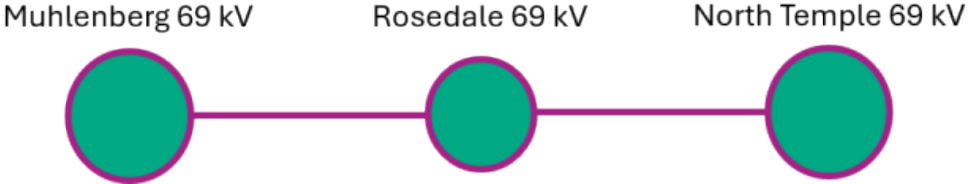
North Temple - Rosedale 69 kV Line

- Before Proposed Solution: 111 / 134 / 125 / 159 MVA (SN/SE/WN/WE)
- After Proposed Solution: 139 / 169 / 158 / 201 MVA (SN/SE/WN/WE)

Alternatives Considered:

Maintain existing conditions with risk of equipment failure due to equipment deterioration.

Estimated Project Cost: \$21.57 M
Projected In-Service: 12/31/2029
Project Status: Conceptual
Model: 2025 RTEP model for 2030 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

08/03/2026 – V1 – Original version posted to pjm.com