

Subregional RTEP Committee – Mid-Atlantic FirstEnergy Supplemental Projects

October 17, 2024

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

Need Number: ME-2024-021

Process Stage: Need Meeting – 10/17/2024

Project Driver:

Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

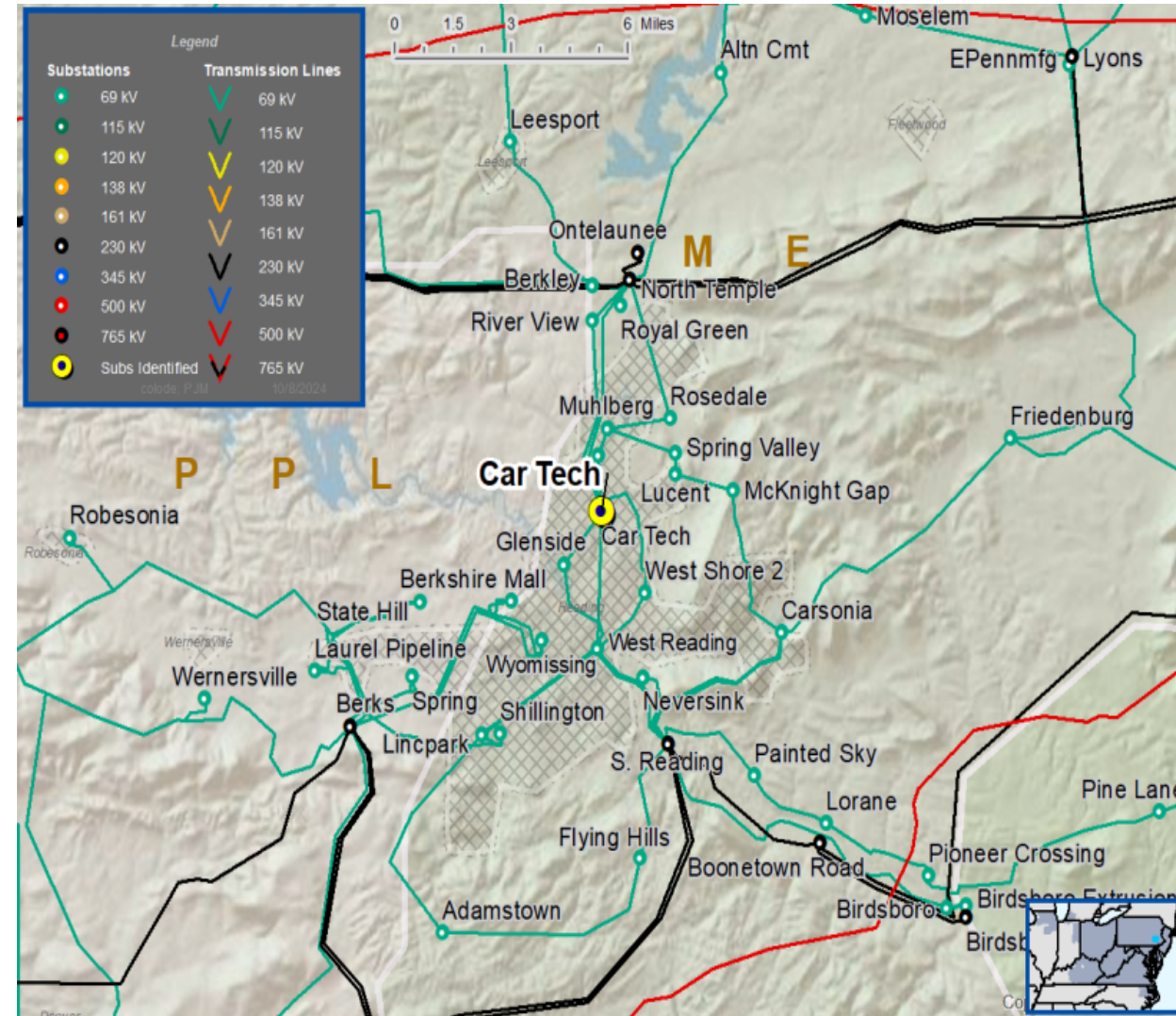
System Performance Projects Global Factors

- System reliability/performance
 - Substation/line equipment limits
- Substation Condition Rebuild/Replacement
- Age/condition of substation equipment
 - Circuit breakers and other fault interrupting devices

Problem Statement:

- The existing 69 kV breaker 83692 at Carpenter Technology Substation is over 50 years old and approaching end of life.
- Replacement components are difficult to source in quantity leading to non-standard repairs.
- The circuit breaker requires frequent maintenance to preserve the integrity of the oil and to replace parts on pneumatic systems.
- The line is currently limited by terminal equipment.

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ME Transmission Zone M-3 Process Carpenter Technology Substation 69 kV Circuit Breaker

Need #	Transmission Line / Substation Locations	Existing Line Rating (MVA SN / SE / WN / WE)	Existing Conductor Rating (MVA SN / SE / WN / WE)
ME-2024-021	Carpenter Technology – Riverview 69 kV Line	147 / 180 / 187 / 211	218 / 250 / 218 / 263



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

10/07/2024 – V1 – Original version posted to pjm.com

10/8/2024 – V2 – Added map for need ME-2024-021