

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

June 15, 2021

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-2021-003

Process Stage: Need Meeting 6/15/2021

Project Driver:

Equipment Material Condition, Performance and Risk, Operational Flexibility and Efficiency

Specific Assumption Reference:

System Performance Projects Global Factors

- System reliability and performance
- Substation/line equipment limits

System Condition Projects

- Substation Condition Rebuild/Replacement

Upgrade Relay Schemes

- Relay schemes that have a history of misoperation
- Obsolete and difficult to repair communication equipment (DTT, Blocking, etc.)
- Communication technology upgrades

Problem Statement:

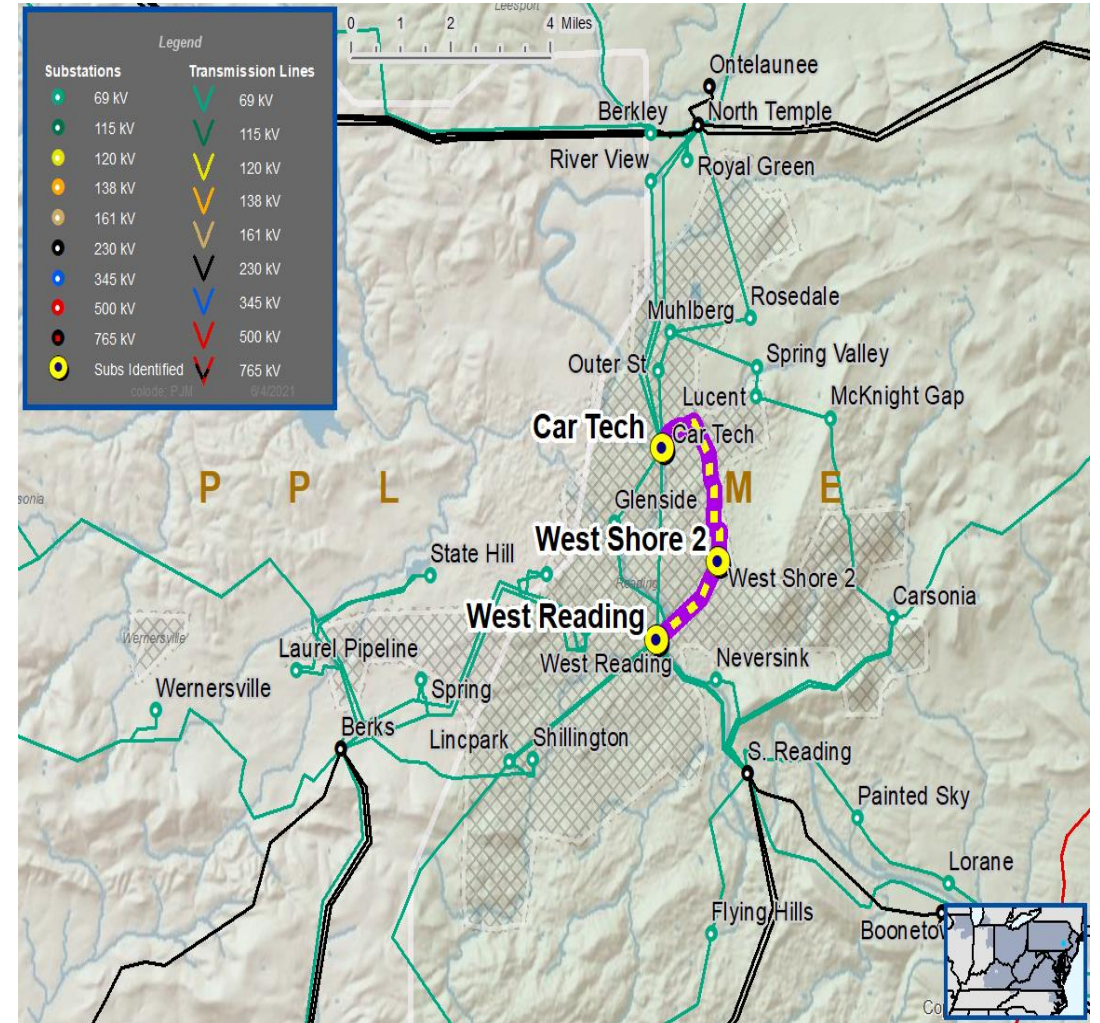
A communication service carrier has notified FirstEnergy of the anticipated retirement of an analog communications channel in the Met-Ed service territory. The existing Potential Overreaching Transfer Trip (POTT) scheme on the West Reading - Car Tech 69 kV line will be impacted by this planned retirement.

The existing relaying and terminal hardware on the CarTech – West Reading 69 kV line does not maintain compatibility with available communications protocols and FirstEnergy standards.

The relaying type is identified by FirstEnergy as being prone to frequent misoperations.

The anticipated analog circuit retirement is anticipated 6/8/2021 .

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Need Number	Transmission Line / Substation Locations	Existing Line Rating (SN / SE)	Existing Conductor Rating (SN / SE)	Limiting Terminal Equipment
ME-2021-003	Carpenter Technology - West Shore Tap 25 69 kV Line West Shore Tap - West Reading 25 69 kV Line	100 / 100 139 / 169	139 / 169 139 / 169	Line Relaying, Substation Conductor N/A

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

6/4/2021 – V1 – Original version posted to pjm.com