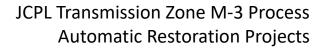
# Subregional RTEP Committee – Mid-Atlantic FirstEnergy Supplemental Projects

December 12, 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 Numbers: JCPL-2024-050 and 052

**Process State:** Need Meeting – 12/12/2024

**Project Driver:** 

Equipment Material Condition, Performance and Risk

**Specific Assumption Reference:** 

System Performance Projects Global Factors

- System reliability and performance
- Substation/line equipment limits

**Upgrade Relay Schemes** 

- Obsolete and difficult to repair communication equipment (DTT, Blocking, etc.)
- Communication technology upgrades

#### **Problem Statement:**

- There is a lack of automatic restoration of 34.5 kV lines following tripping events without the intervention of Transmission Operators.
- Manual restoration increases the risk of system constraints on adjacent facilities, especially for critical lines as identified by Transmission Operations.
- Obsolete electromechanical relay schemes. In many cases, the protection equipment cannot be repaired due to a lack of replacement parts and available expertise in the outdated technology.
- Proper operation of the protection scheme requires all the separate components perform adequately during a fault.
- Transmission line ratings are limited by terminal equipment.

Oakland Transmission Lines сгеек Hopatcong inny Hinchmans Ave 120 kV 138 kV Montville W. Wharton Montville Flanders Greystone West Caldw Drakestown ere\_Tap\_Elastim Morristown e Martins Creek eth SHercules Cement **Dot Summit** Tewksbury Morris Park Glen Gardner Merrill Creek Glendon rsville Fanwood South Farmersville Steel City Readington Mountain Ave Gilbert Bridgewater Gilbert Branchburg Flemington Bennetts Lane Franklin RB Manufacturing Bellemead



Need Number	Transmission Line / Substation Locations	Existing Line Rating MVA (SN / SE / WN / WE)	Existing Conductor Rating MVA (SN / SE / WN / WE)
JCPL-2024-050	Gilbert – Ferndale 34.5 kV B28 Line	12 / 12 / 12 / 12	14 / 14 / 15 / 15
JCPL-2024-052	Montville – Jacksonville Tap 34.5 kV L116 Line	55 / 67 / 63 / 72	55 / 67 / 63 / 79
	Montville – Jacksonville Tap 34.5 kV M117 Line	55 / 67 / 63 / 72	55 / 67 / 63 / 79

# Appendix

## High level M-3 Meeting Schedule

<b>Assum</b>	ptions
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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

12/2/2024 – V1 – Original version posted to pjm.com