

Subregional RTEP Committee – Mid-Atlantic FirstEnergy Supplemental Projects

November 17, 2022

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: JCPL-2022-004

Process Stage: Need Meeting 11/17/2022

Project Driver:

Customer Service

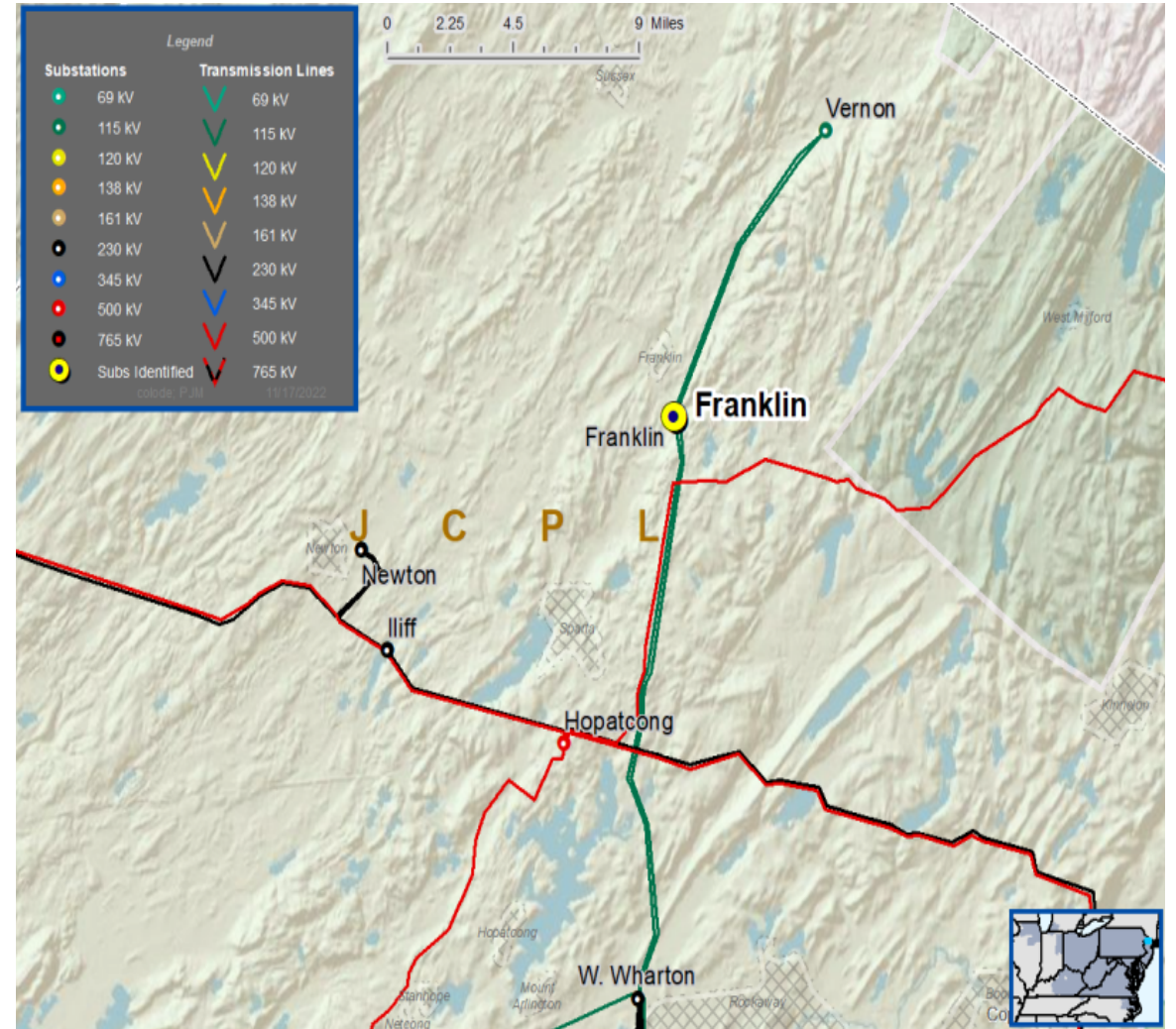
Specific Assumption Reference:

Customer request 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 34.5 kV service; anticipated load is 10 MVA near the Franklin 34.5 kV Substation.

Requested in-service date is 6/1/2023



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: JCPL-2022-003

Process Stage: Solution Meeting 11/17/2022

Previously Presented: Need Meeting 9/15/2022

Project Driver:

Infrastructure Resilience, Performance and Risk, Operational Flexibility and Efficiency

Specific Assumption Reference:

Global Factors

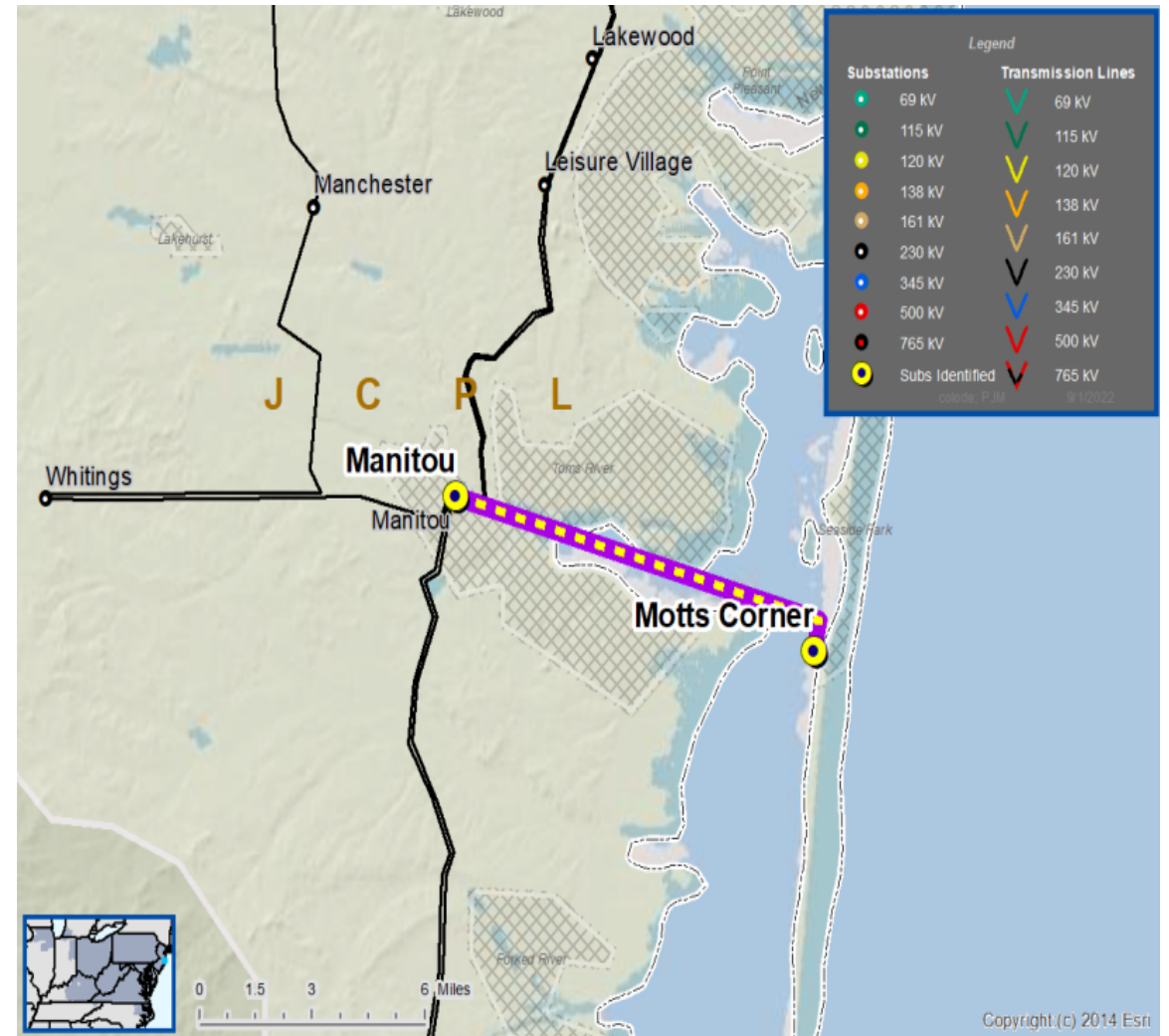
- Age/condition of transmission line conductors
- Load at risk in planning and operational scenarios

System Condition Project

- Transmission Power Cable and Support Equipment

Problem Statement

- Faulted Manitou –Motts Corner No 1 X50 35kV submarine cable from Bayville, NJ to Seaside Park, NJ is currently out of service and in need of replacement
- Original cable was installed in 1949
- Replacement cable was installed in 1968
- Recent N92 cable failure highlighted the need for redundant operational feeds to the barrier islands.
- NJ BPU requirement to plan for N-2 for service to barrier islands



Need Number: JCPL-2022-003

Process Stage: Solution Meeting 11/17/2022

Proposed Solution:

Replace 1.5 mile of faulted submarine cable with double 500 CU conductors. Restore service to 34.5 kV line between Motts Corner and Seaside Park.

Transmission Line Ratings:

- Motts Corner – Seaside Park 34.5 kV Line
 - 44 / 52 MVA (SN/SE)

Alternatives Considered:

- None

Estimated Project Cost: \$14.26

Projected In-Service: 10/31/2023

Project Status: Conceptual

Model: 2022 RTEP model for 2027 Summer (50/50)



Legend	
500 kV	
345 kV	
230 kV	
138 kV	
115 kV	
69 kV	
46 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

11/7/2022 – V1 – Original version posted to pjm.com