

Transmission Expansion Advisory Committee – FirstEnergy (JCPL) Supplemental Projects

August 4, 2020

Solution

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-2020-004

Process Stage: Solutions Meeting 8/4/2020

Previously Presented: Need Meeting 7/7/2020

Project Driver:

Customer Service

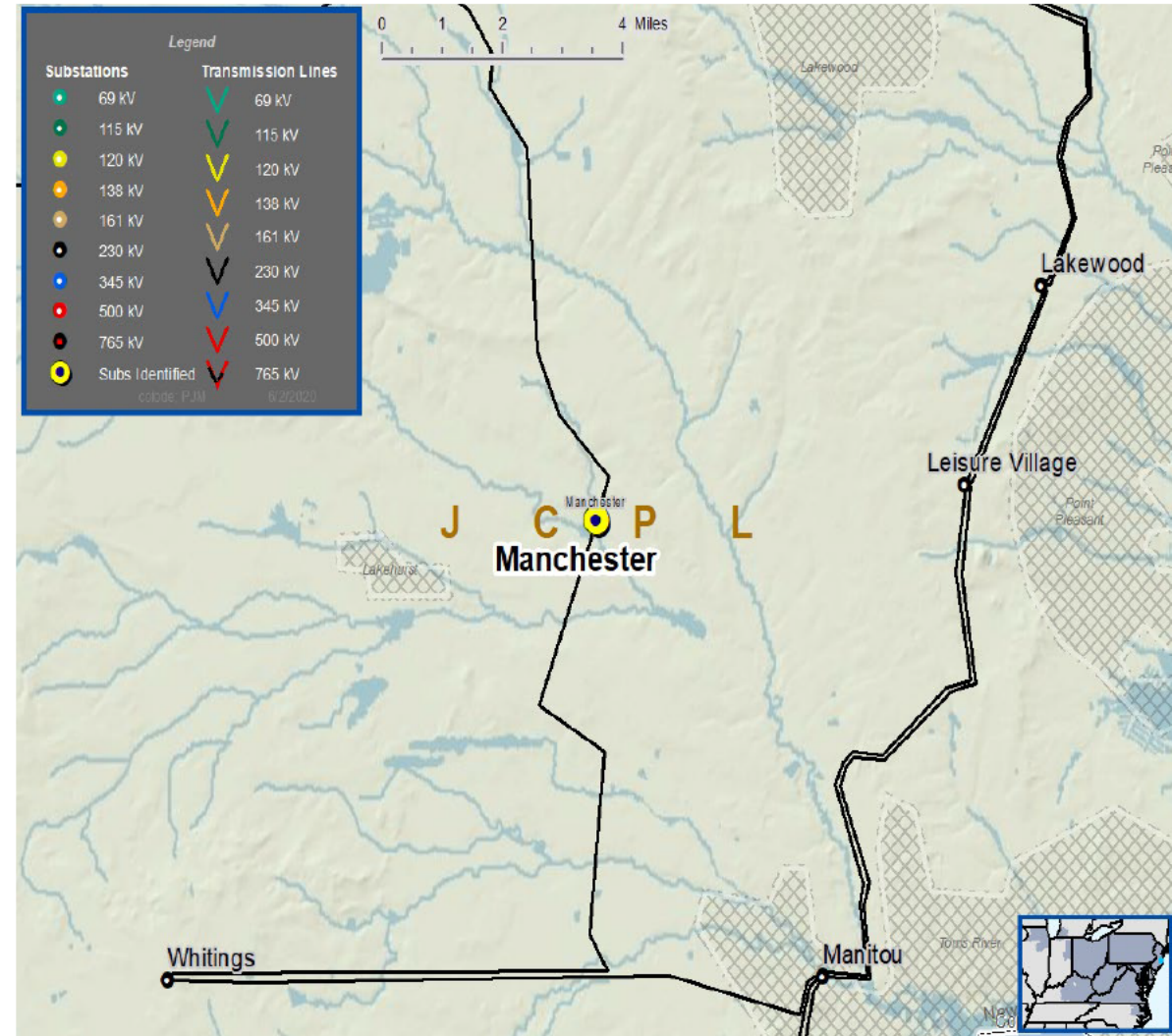
Specific Assumption Reference:

Customer connection request will be evaluated per FirstEnergy’s “Requirements for Transmission Connected Facilities” document and “Transmission Planning Criteria” document.

Problem Statement:

Customer Connection – JCP&L Distribution requested to complete a 230 kV service connection in 2016 with an initial in-service date of June 2018. The anticipated load is 9 MW, location is at the existing Manchester 230-12.5 kV substation.

Requested in-service date is June 2020.



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Proposed Solution:

Manchester 230-12.5 kV Transformer

- Install 230 kV circuit breaker and associated equipment (switch, relaying, etc.) to feed the new 230-12.5 kV #2 transformer.
- Remove 34.5-12.5 kV Mobile transformer.

Alternatives Considered:

- N/A

Estimated Project Cost: \$0.2 M

Projected In-Service: 8/31/2020

Project Status: Construction

Model: 2019 RTEP Model for 2024

Manchester 230 kV



| Legend | |
|---------|--|
| 500 kV | |
| 345 kV | |
| 230 kV | |
| 138 kV | |
| 115 kV | |
| 69 kV | |
| 46 kV | |
| 34.5 kV | |
| 23 kV | |
| New | |

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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

7/24/2020 – V1 – Original version posted to pjm.com