

Sub Regional RTEP Committee: Western Dayton Supplemental Projects

February 21, 2020

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: Dayton-2020-001

Process Stage: Need Meeting 2/21/2020

Project Driver:

Operational performance

Specific Assumption Reference:

Dayton Local Plan Assumptions (Slide 5)

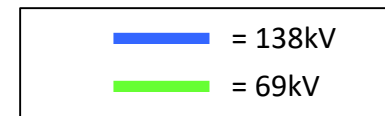
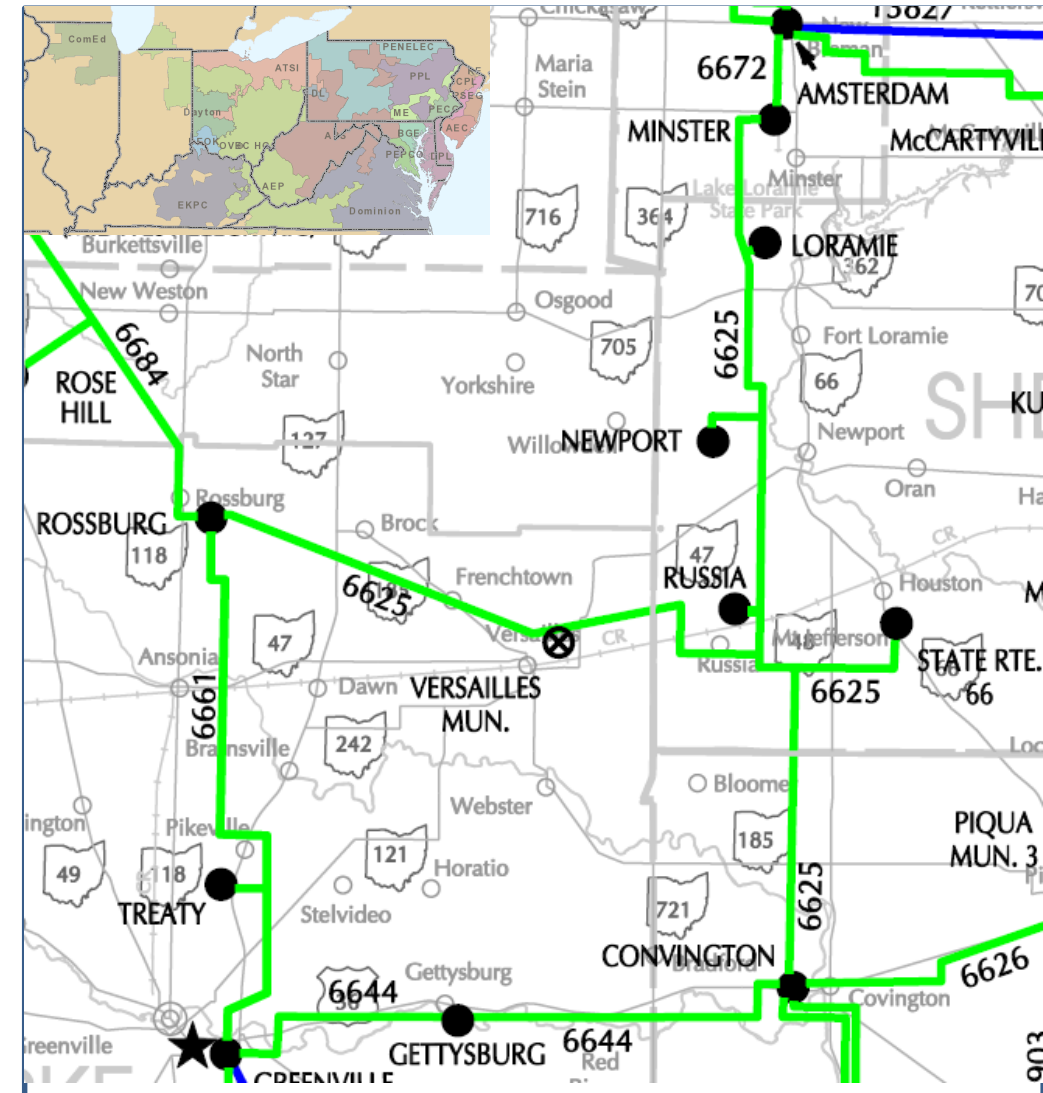
Problem Statement:

- The existing 42 mile 69kV transmission line (6625) from Covington-Minster-Rossburg was constructed using wood pole, cross-arm and brace design in 1971. This line provides transmission and distribution level service to 6 different substations serving nearly 7,000 customers in Darke, Mercer, Miami, and Shelby Counties in Ohio and totaling approximately 40MW of load.

- A fault occurring anywhere on this 42 mile line will result in at least a temporary outage and potential permanent outage to all 7,000 customers.

-This line is one of the worst performing 69kV transmission lines in the Dayton zone. The line has experienced 30 outages (5 permanent and 25 momentary) since 2016, and the total duration of those outages is ~3700 minutes. Most of the permanent outages have been caused by equipment related issues while most of the momentary outages have been the result of weather.

-This is a three-terminal transmission line which causes protection and control concerns which could lead to possible misoperation. There are existing sectionalizing switches to help reduce outage time but the switches have not operated reliably during outage conditions and will need addressed.



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

2/10/2020 – V1 – Original version posted to pjm.com