

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

April 20, 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: PN-2023-002

Process State: Solution Meeting 04/20/2023

Previously Presented: Need Meeting 3/16/2023

Project Driver:

Customer Service

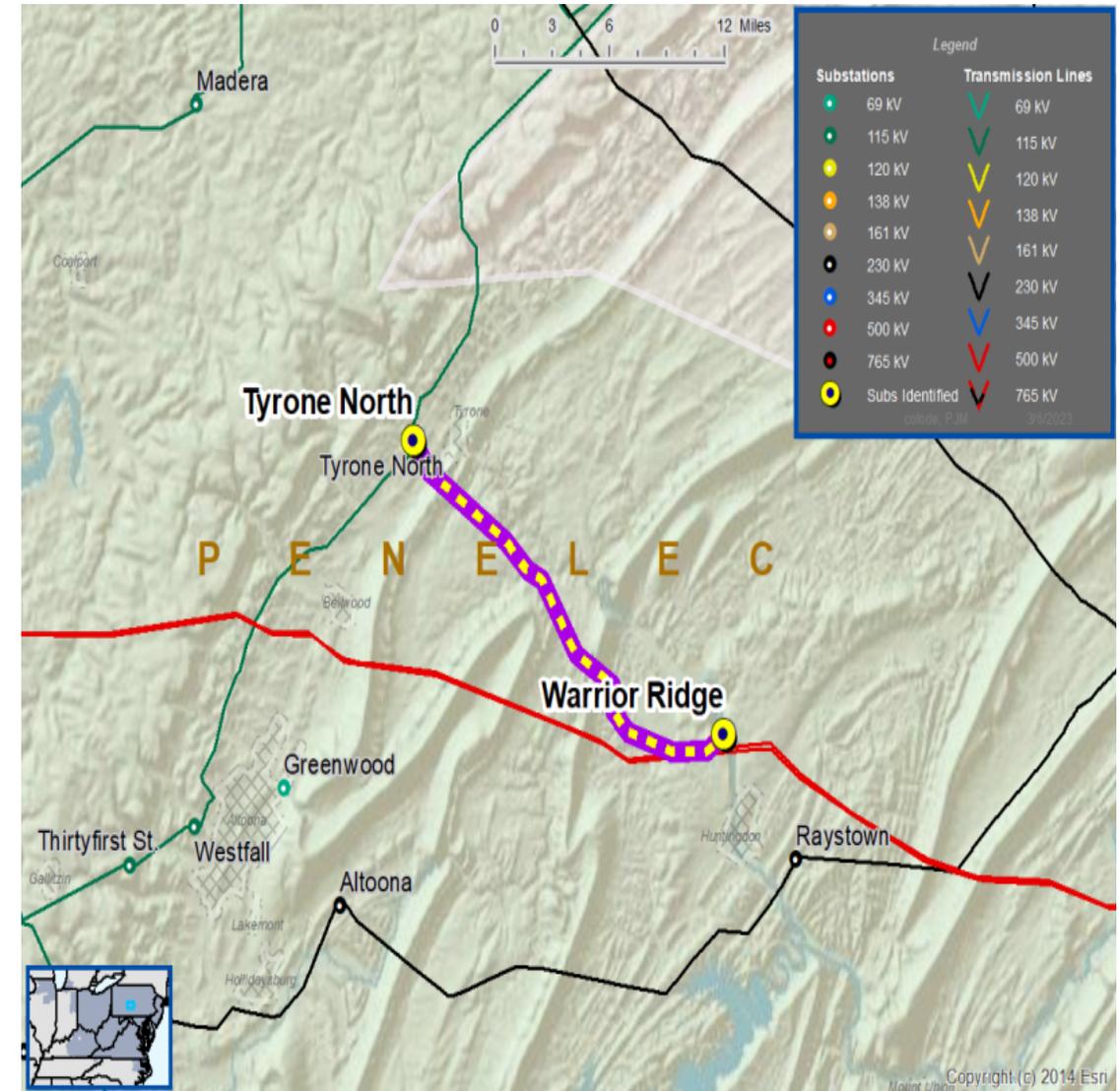
Specific Assumption Reference:

New customer connection requests 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 46 kV service for load of approximately 1.1 MW near the Tyrone North – Warrior Ridge 46 kV Line.

Requested in-service date is 04/28/2023.



Need Number: PN-2023-002

Process State: Solution Meeting 04/20/2023

Proposed Solution:

- Tap the Tyrone North – Warrior Ridge 46 kV Line
- Construct 0.1 miles of 336 26/7 ACSR to the customer
- Install three 1200 A SCADA controlled disconnect switches
- Install one 46 kV revenue metering package

Alternatives Considered:

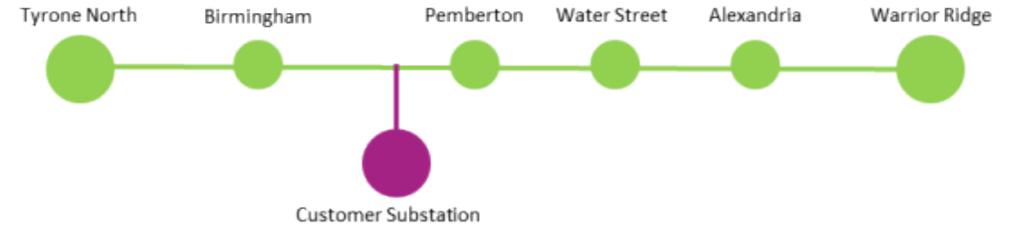
No reasonable alternatives to serve the customer request at this service location.

Estimate Project Cost: \$1.15M

Projected In-Service: 05/12/2023

Project Status: Engineering

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 | |

Need Number: PN-2022-004

Process State: Solution Meeting 04/20/2023

Previously Presented: Need Meeting 12/14/2022

Project Driver:

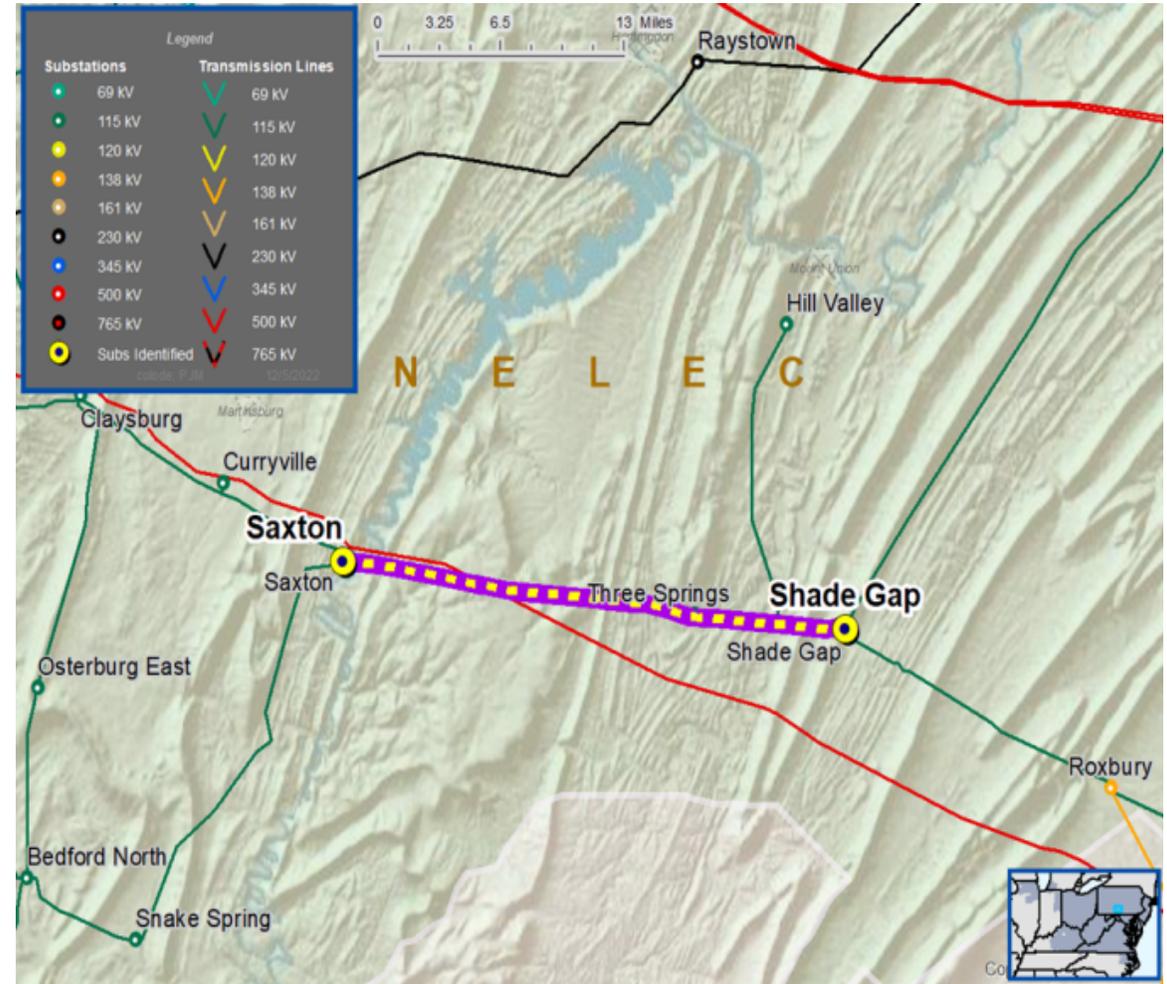
Customer Service

Specific Assumption Reference:

New customer connection requests 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 115 kV service for load of approximately 20 MW near the Saxton – Shade Gap 115 kV line. Requested in-service date is 09/01/2024.



Need Number: PN-2022-004

Process State: Solutions Meeting 4/20/2023

Proposed Solution:

Provide 115 kV Service:

- Tap the Saxton – Shade Gap 115 kV Line (Saxton – Three Springs 115 kV Line segment)
- Construct ~8.64 miles of 115 kV line towards the customer
- Install one 115 kV revenue metering package
- Install three 1200 A SCADA controlled disconnect switches

Alternatives Considered:

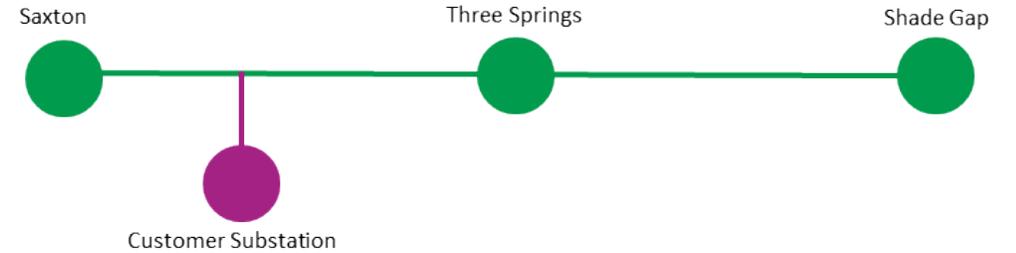
- Tap the Claysburg – Saxton (R2) 115 kV Line
- Alternative would require new ROW crossing Raystown Lake, which is federally managed and controlled land
- Acquiring new ROW in federally controlled land would result in further delay to the project ISD

Estimated Project Cost: \$23.96M

Projected In-Service: 04/01/2025

Project Status: Engineering

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

4/10/2023 – V1 – Original version posted to pjm.com