

Subregional RTEP Committee – Western FirstEnergy Supplemental Projects

February 17, 2023

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: APS-2023-001

Process State: Need Meeting 02/17/2023

Project Driver:

Operational Flexibility and Efficiency

Specific Assumption Reference:

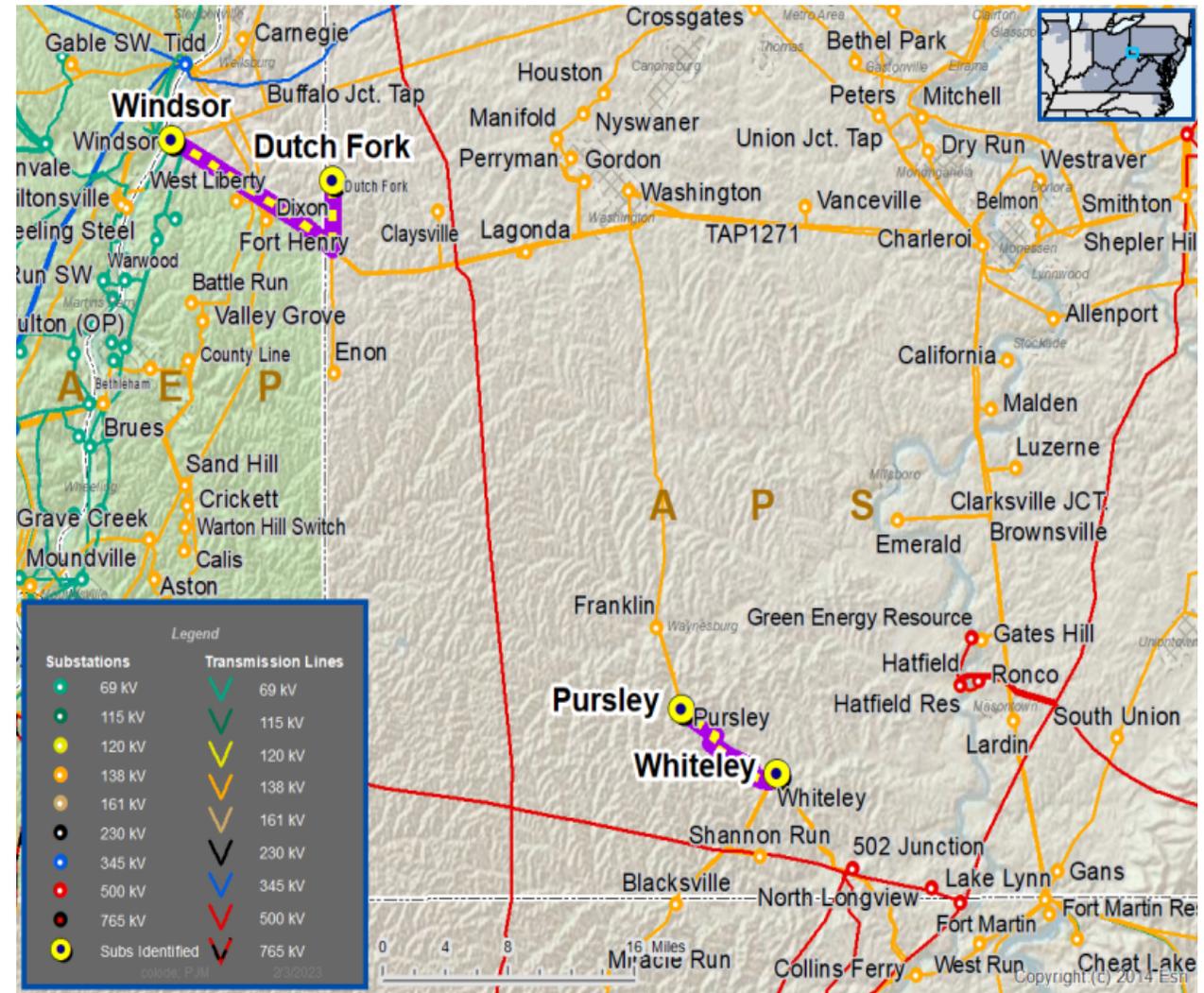
- Global
- System reliability and performance
- Load at risk in planning and operational scenarios
- System losses
- Add/Expand Bus Configuration
- Capability to perform substation maintenance

Problem Statement:

An N-1 loss of the Dutch Fork - Windsor 138 kV Line results in Enon, Dutch Fork, and Claysville substations being fed radially out of Washington Substation. The radial line serves approximately 110 MW of load at peak conditions and over 4,539 customers.

A subsequent N-1 loss of the Whiteley - Pursley 138 kV Line adds Washington, Vanceville, Franklin, and Pursley substations to the radial line now served out of Charleroi Substation. This adds an additional 67 MW of load and 13,379 customers served from the radial line.

This radial line has approximately 177 MW and 17,918 customers. In this configuration Enon Substation has 73 miles of line exposure.



Need Number: APS-2023-003

Process Stage: Need Meeting 2/17/2023

Project Driver: *Customer Service*

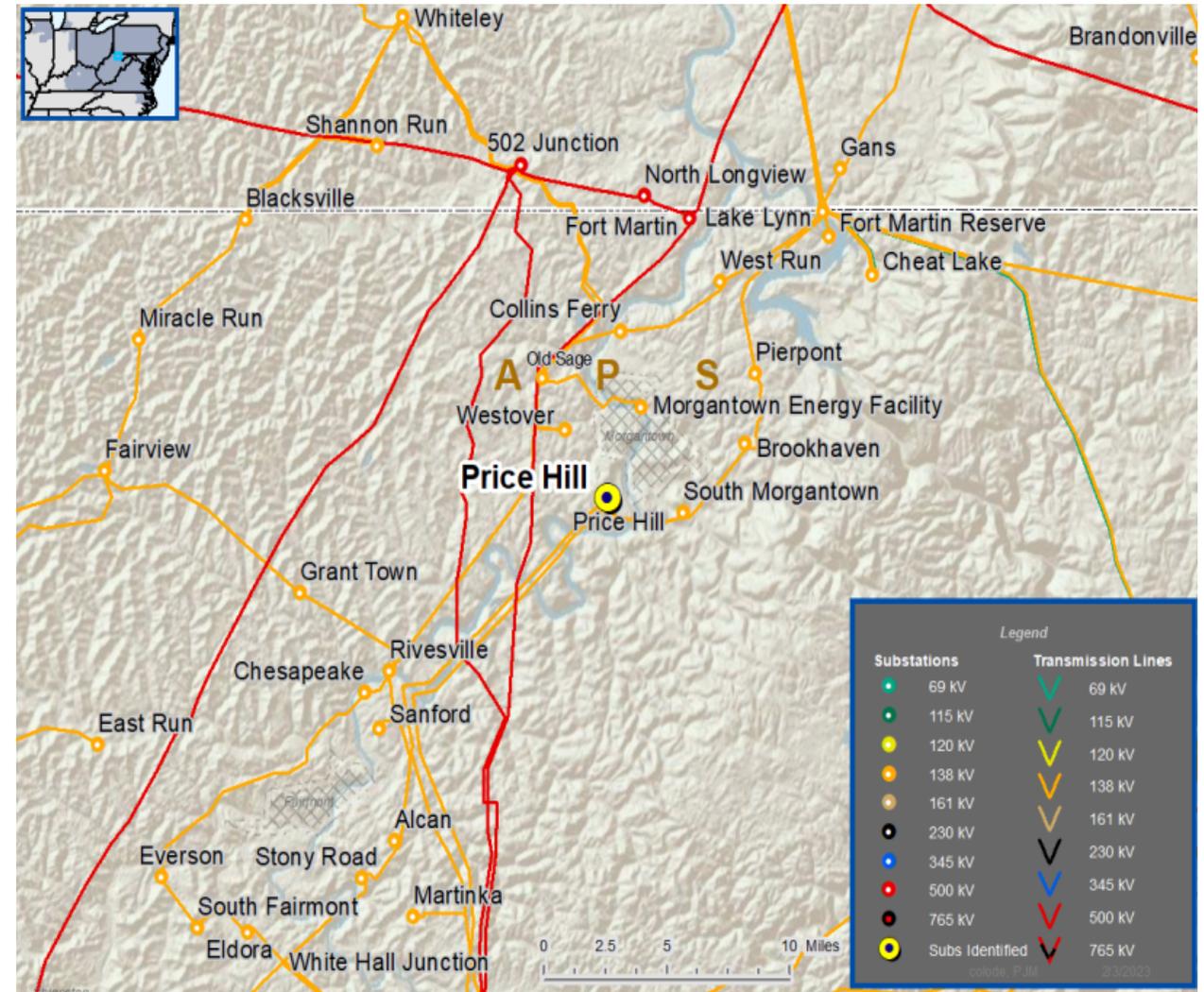
Specific Assumption Reference:

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 138 kV service to support 8 MVA of load at a site near Price Hill 138 kV substation in the Mon Power service territory.

Requested in-service date is 3/17/2023



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

2/7/2022– V1 – Original version posted to pjm.com