

Transmission Expansion Advisory Committee – FirstEnergy Supplemental Projects

September 6, 2022

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: APS-2020-012

Process Stage: Solution Meeting 09/06/2022

Previously Presented: Need Meeting 06/07/2022

Project Driver:

Customer Service

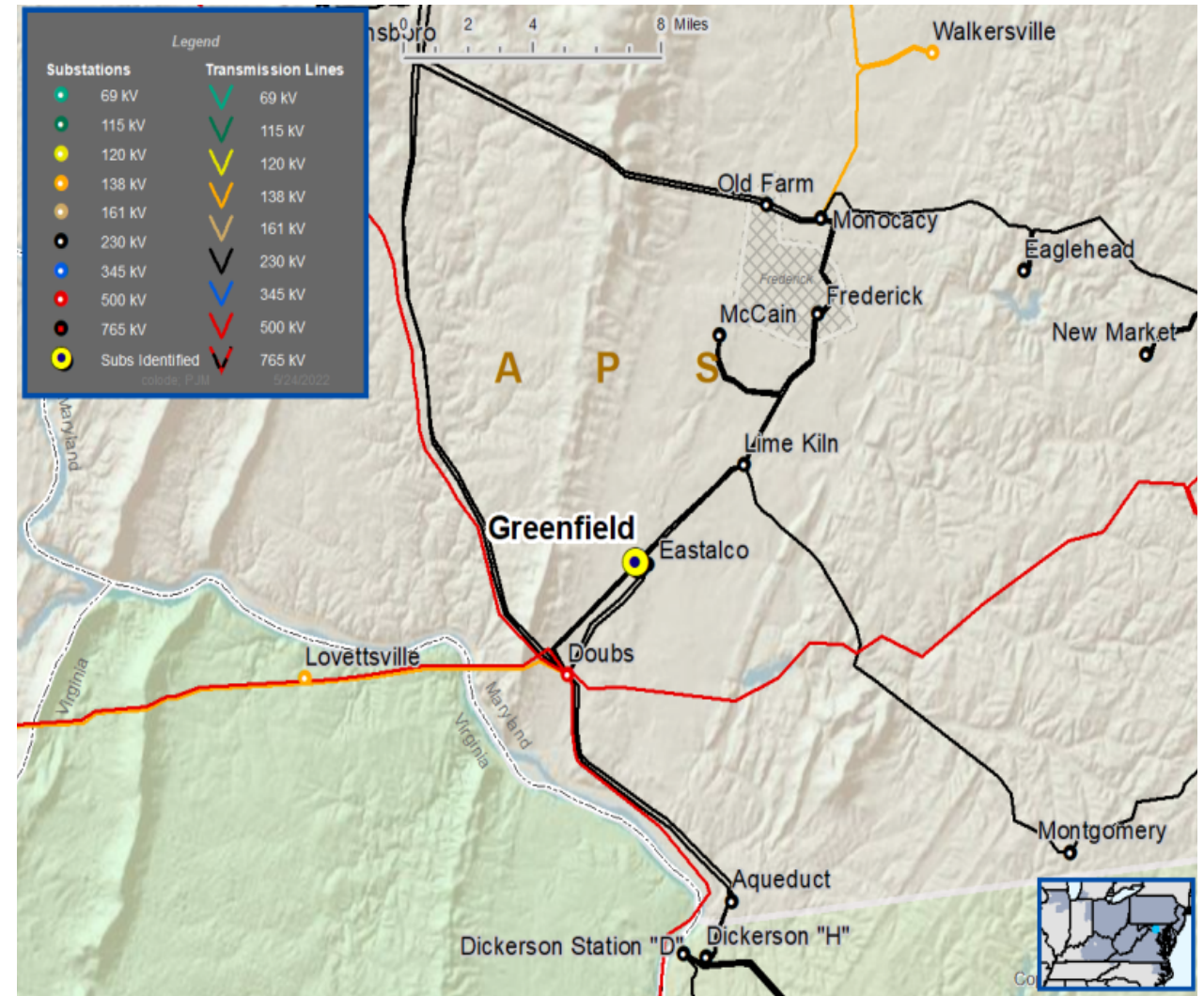
Specific Assumption Reference:

New customer connection 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 230 kV service, anticipated load is 30 MW, location is near the Doubs – Monocacy 230 kV line.

Requested in-service date is November 2022.



Need Number: APS-2020-012

Process Stage: Solution Meeting 09/06/2022

Proposed Solution:

- Install 230 kV circuit breaker and associated equipment (switch, relaying, etc.) to feed a new 230-34.5 kV transformer.
- Loop the Doubs – Monocacy 230 KV line into the new station.

Alternatives Considered:

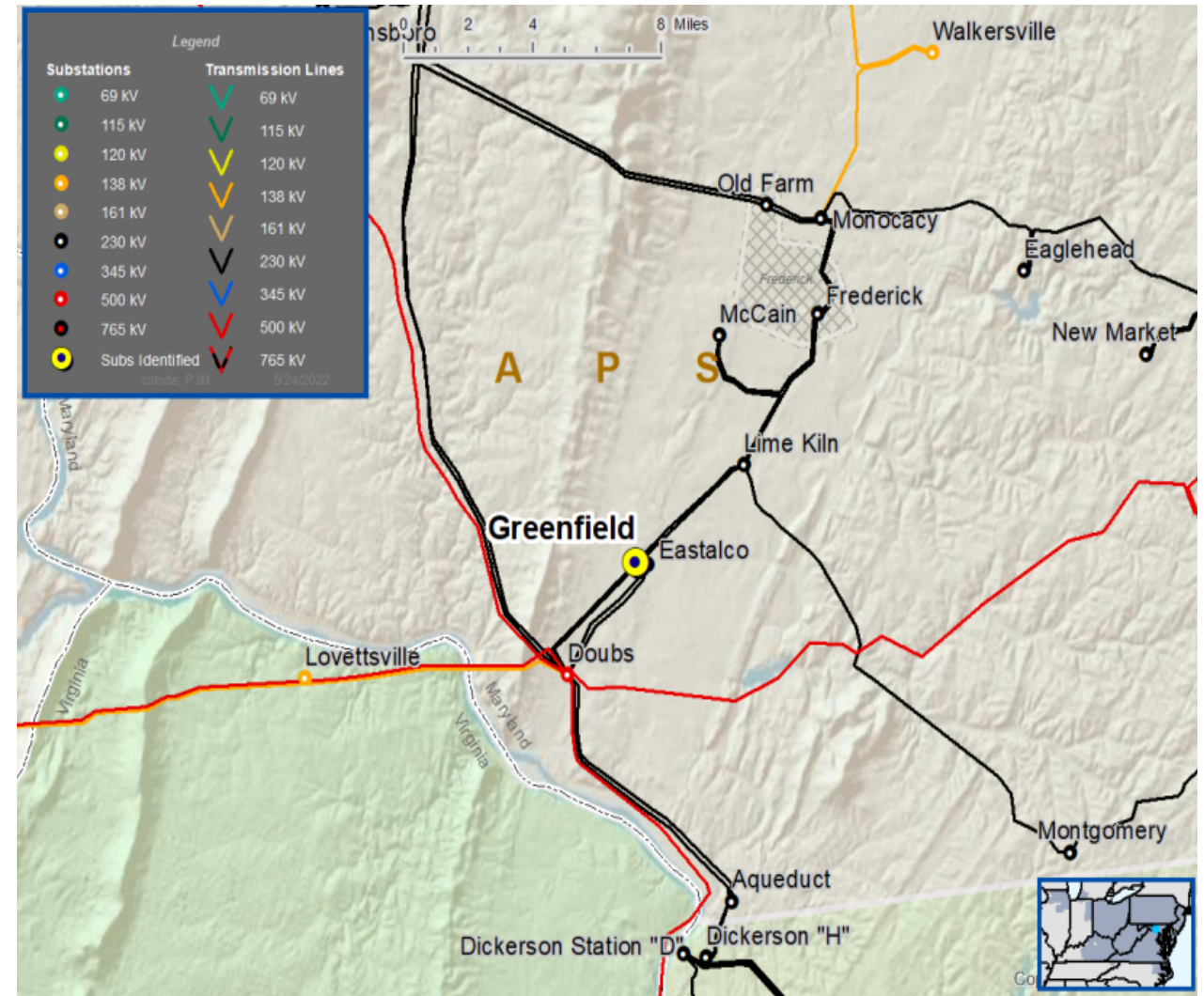
- None

Estimated Project Cost: \$4.9M

Projected In-Service: 11/01/2022

Project Status: Construction

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



Need Number: APS-2022-003

Process Stage: Solution Meeting 09/06/2022

Previously Presented: Need Meeting 05/10/2022

Project Driver:

Customer Service

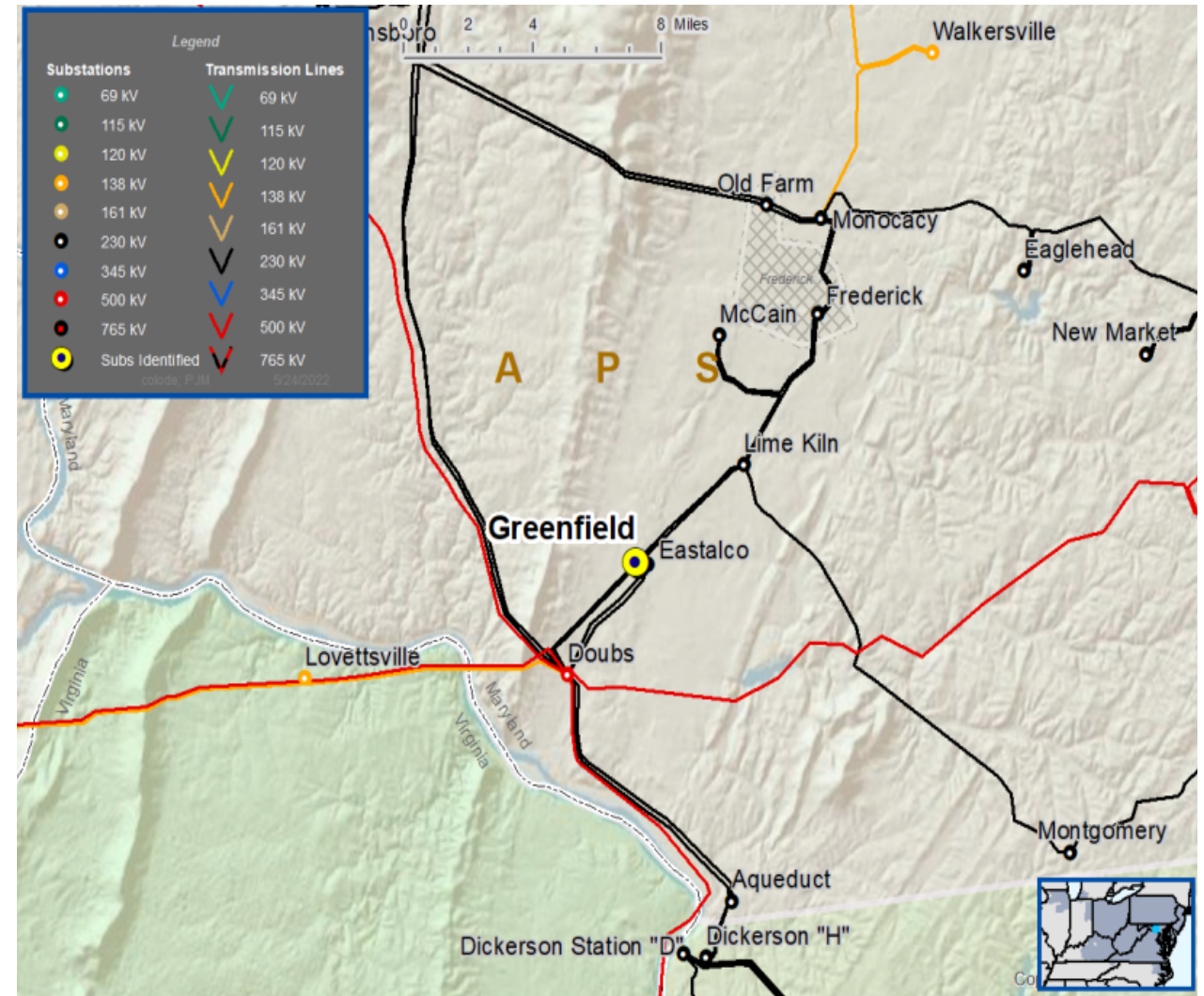
Specific Assumption Reference:

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 240 MW. Location is near the Doubs – Eastalco 230 kV Lines.

Requested in-service date is April 1, 2024.



Need Number: APS-2022-003

Process Stage: Solution Meeting 09/06/2022

Proposed Solution:

- Construct a new three breaker 230 kV ring bus named Sage Substation.
- Re-terminate the Doubs – Eastalco #205 230 kV Line at Doubs Substation.
- Terminate the Doubs – Eastalco #205 230 kV Line into the newly constructed Sage Substation.
- Re-Energize the Doubs – Eastalco #205 230 kV Line.
- Install fiber from Doubs Substation to the newly constructed Sage Substation.

Alternatives Considered:

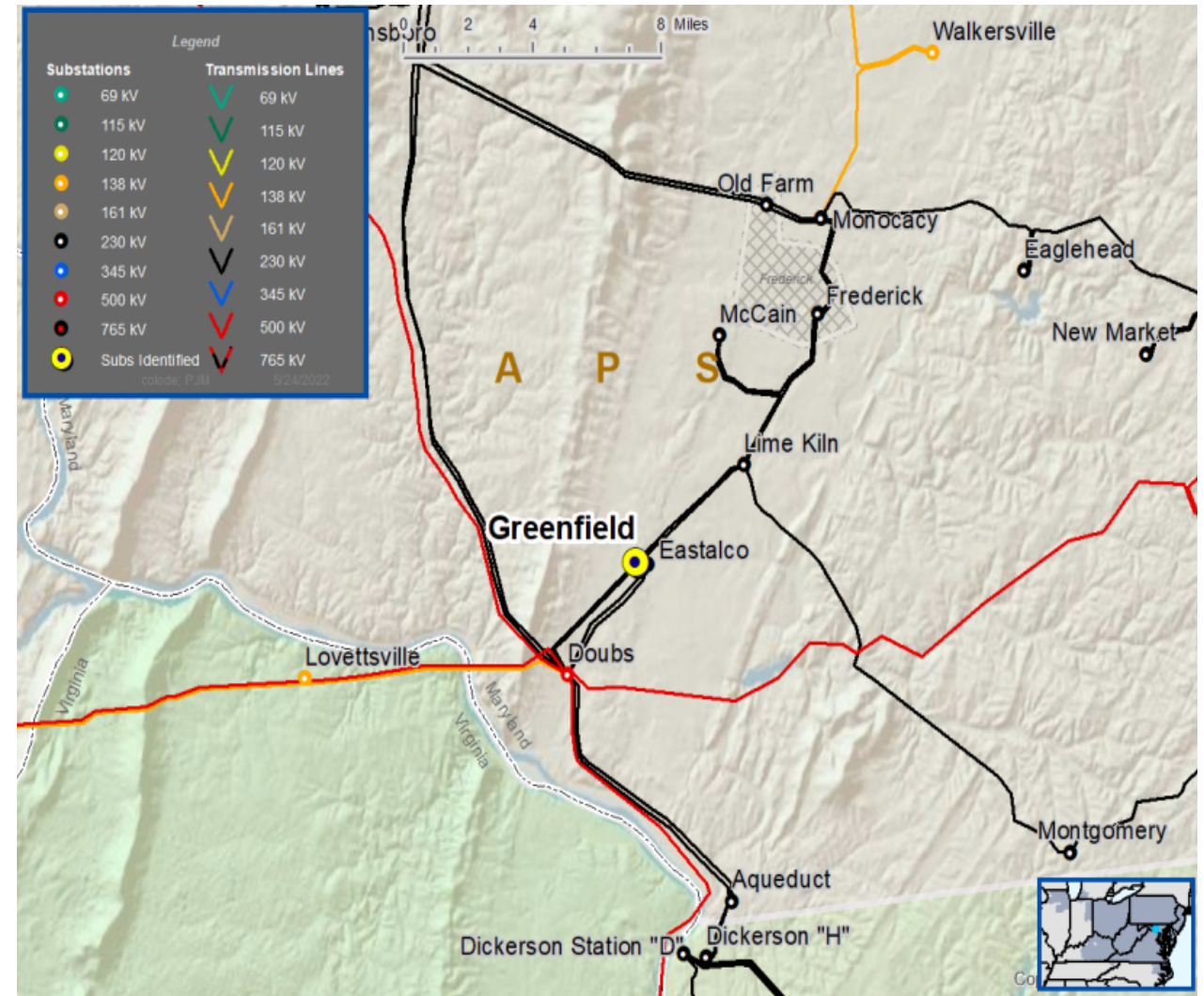
- None

Estimated Project Cost: \$15.1M

Projected In-Service: 04/01/2024

Project Status: Engineering

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



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

08/26/2022 – V1 – Original version posted to pjm.com