



Sub Region RTEP Mid-Atlantic Committee PEPCO Supplemental Projects

December 13, 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: PEP-2023-005

Process Stage: Solutions Meeting 12/13/2023

Previously Presented:

Need Meeting 06/15/2023

Project Driver:

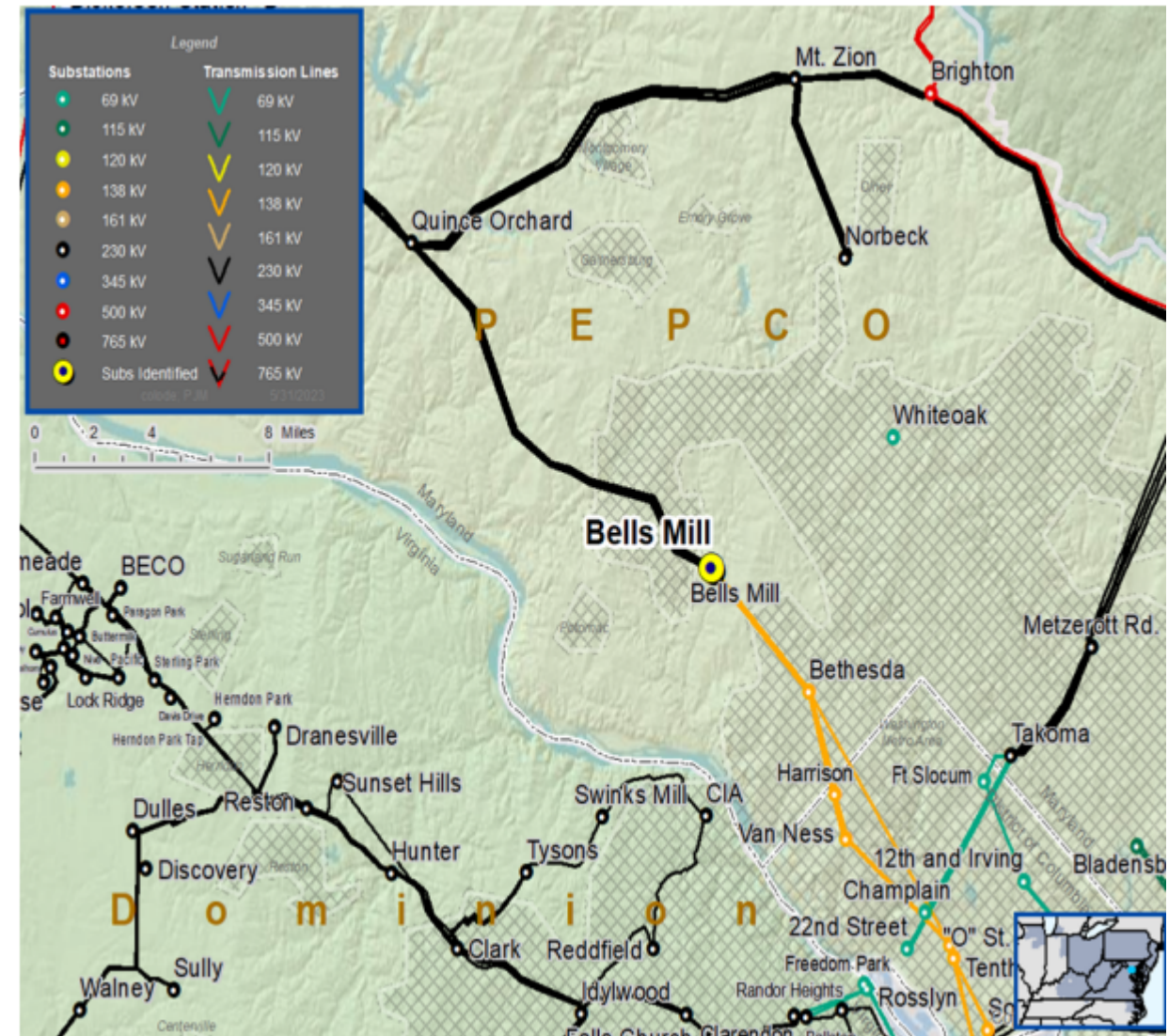
Equipment Material Condition, Performance and Risk.

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions.
- Programmatic review and/or replacement of breakers, relays, wood poles, etc.

Problem Statement:

138kV circuit breaker 8BT at Bells Mill substation was installed in 1977. It is in deteriorating condition, has a lack of replacement parts, and has elevated maintenance cost.



Need Number: PEP-2023-005

Process Stage: Solutions Meeting 12/13/2023

Proposed Solution:

Replace the existing 138kV oil circuit breaker 8BT at Bells Mill

The estimated cost of the project is \$675K

Existing rating 1600A, 38kA

Proposed rating 2000A, 63kA

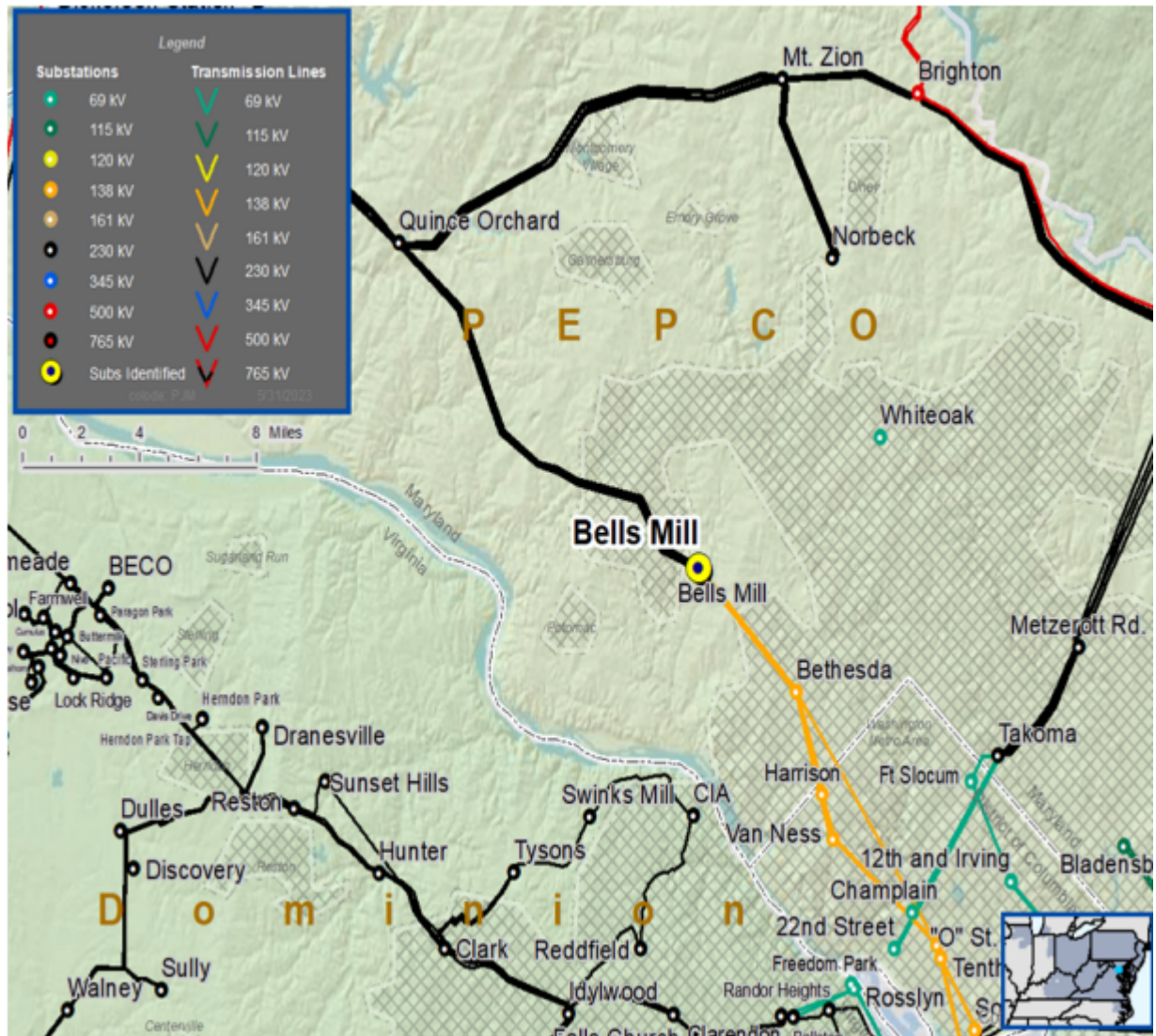
Alternatives Considered:

No feasible alternatives available

Projected In-Service: 10/1/2025

Project Status: Conceptual

Model: RTEP 2028



Need Number: PEP-2023-020, 021, and 022

Process Stage: Solutions Meeting 12/13/2023

Previously Presented:

Need Meeting 11/16/2023

Project Driver:

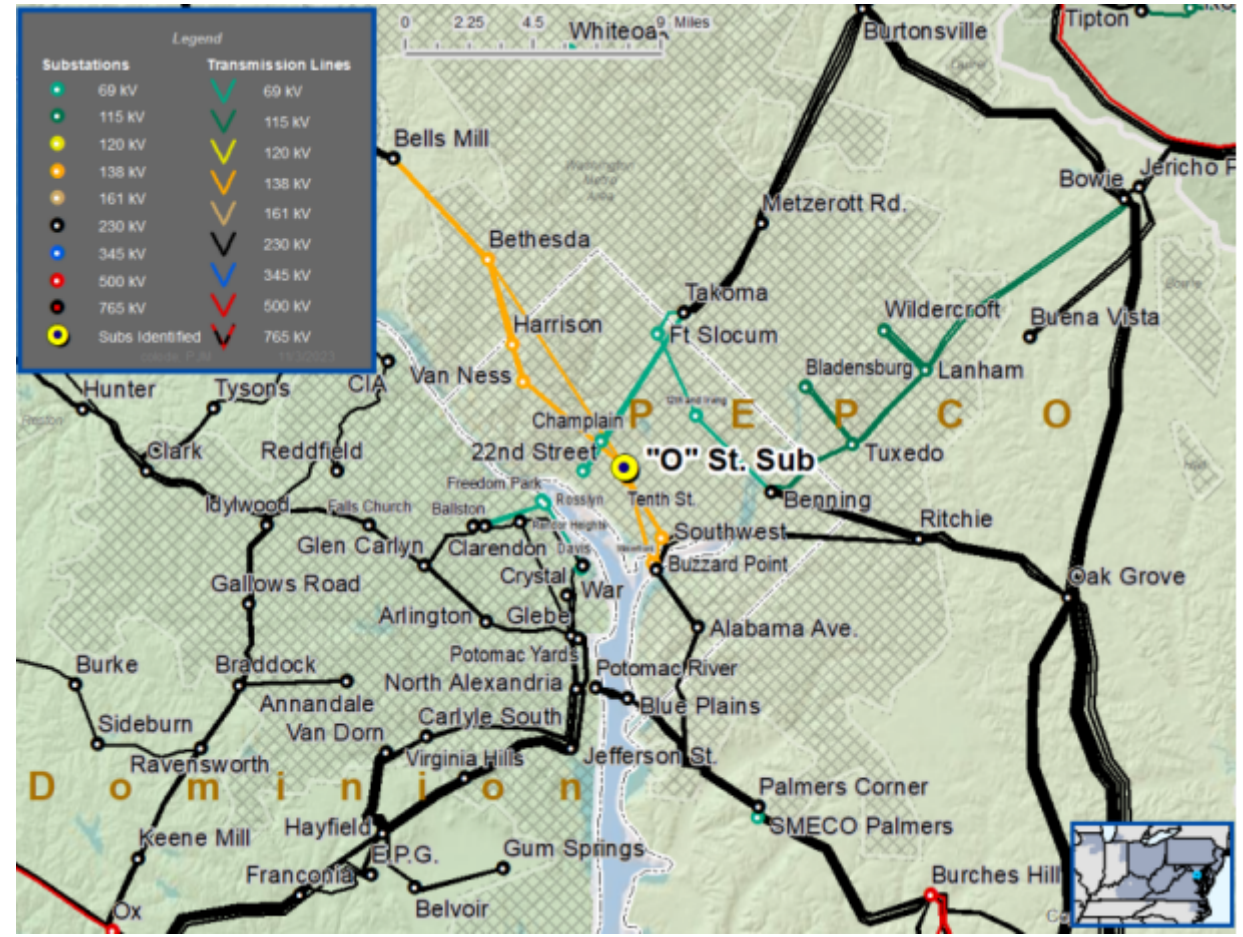
Equipment Material Condition, Performance and Risk.

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions.
- Programmatic review and/or replacement of breakers, relays, wood poles, etc.

Problem Statement:

138kV circuit breakers 1B, 3B, and 4B at O Street were installed in 1967. They are in deteriorating condition, have a lack of replacement parts, and have elevated maintenance cost.



Need Number: PEP-2023-020, 021, and 022

Process Stage: Solutions Meeting 12/13/2023

Proposed Solution:

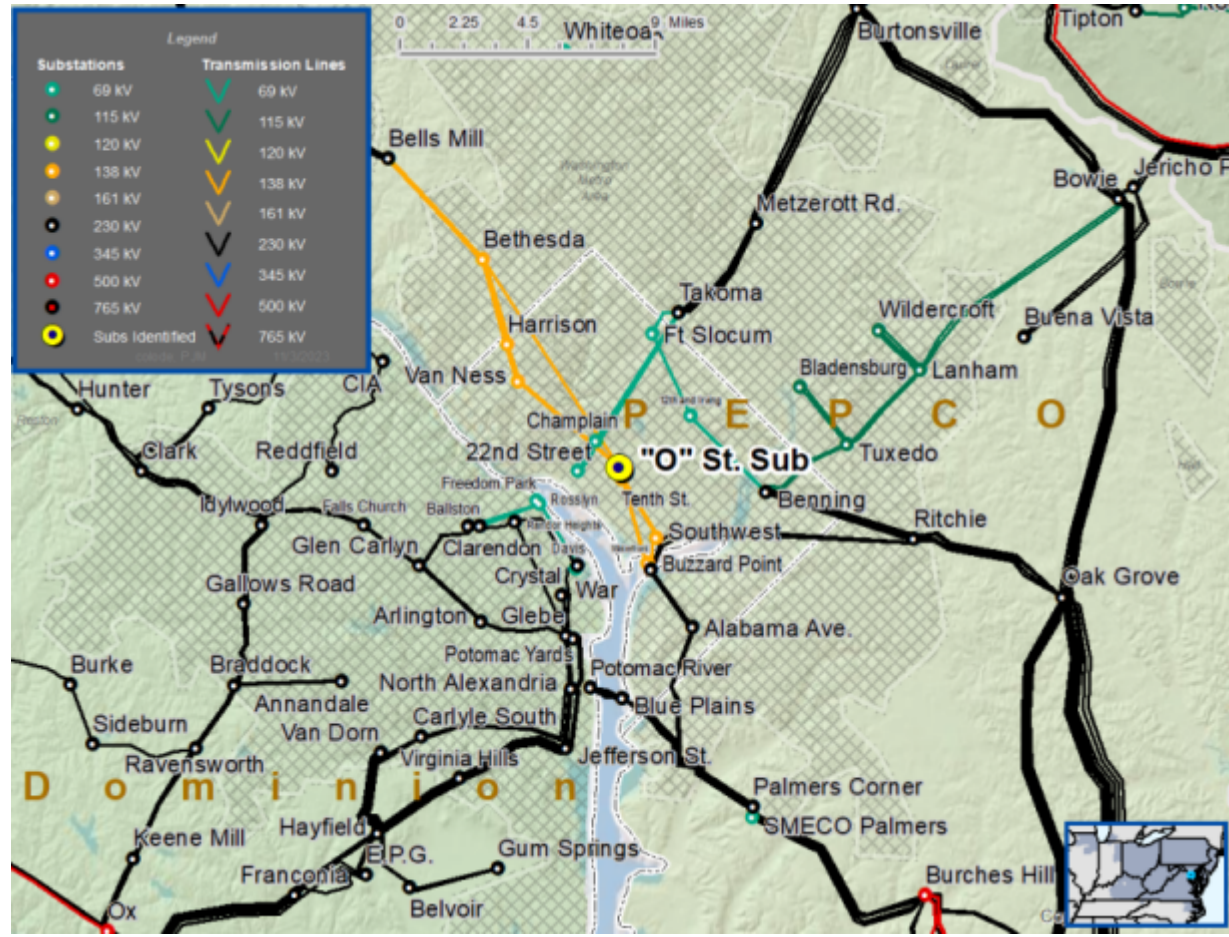
Replace the existing 138kV O street circuit breakers below:

Need No.	Description	Existing Rating	Proposed Rating	Estimate cost	Projected ISD	Status
PEP-2023-020	O Street 138kV 1B Breaker	1600A, 37kA	3000A, 63kA	\$675K	5/28/24	Engineering
PEP-2023-021	O Street 138kV 3B Breaker	1600A, 37kA	3000A, 63kA	\$675K	12/31/23	Engineering
PEP-2023-022	O Street 138kV 4B Breaker	1600A, 37kA	3000A, 63kA	\$675K	1/31/24	Engineering

Alternatives Considered:

No feasible alternatives available

Model: RTEP 2028



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

12/1/2023 – V1 – Original version posted to pjm.com