

Transmission Expansion Advisory Committee – PECO Supplemental Projects

December 1, 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: PE-2020-009

Process Stage: Need Meeting 12/1/2020

Supplemental Project Driver:

Project Driver:

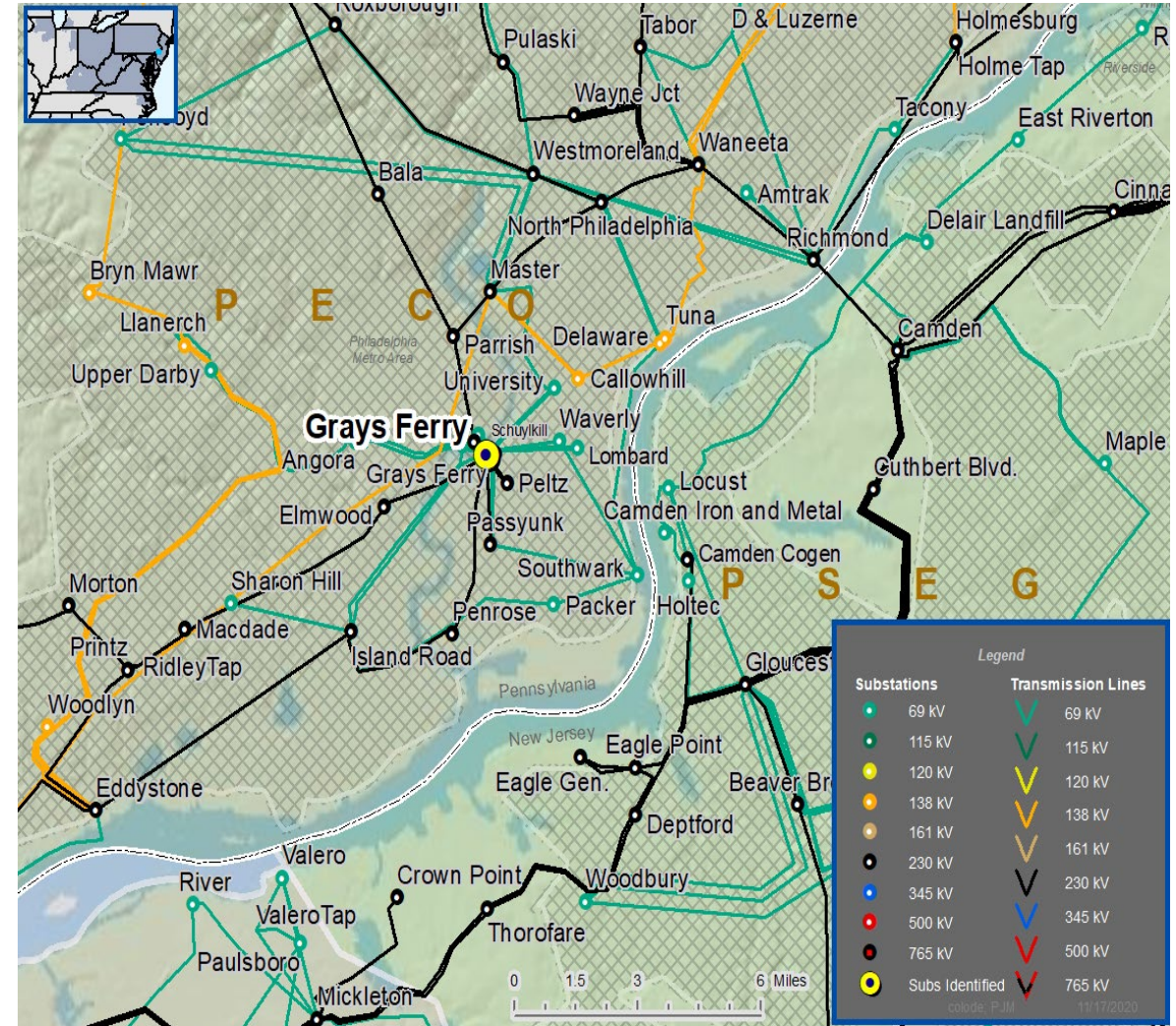
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

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

Problem Statement:

Grays Ferry 230kV circuit breaker #375 installed in 1970 is in deteriorating condition due to SF6 gas leaks, replacement part availability, and elevated maintenance cost



Need Number: PE-2020-010

Process Stage: Need Meeting 12/1/2020

Supplemental Project Driver:

Project Driver:

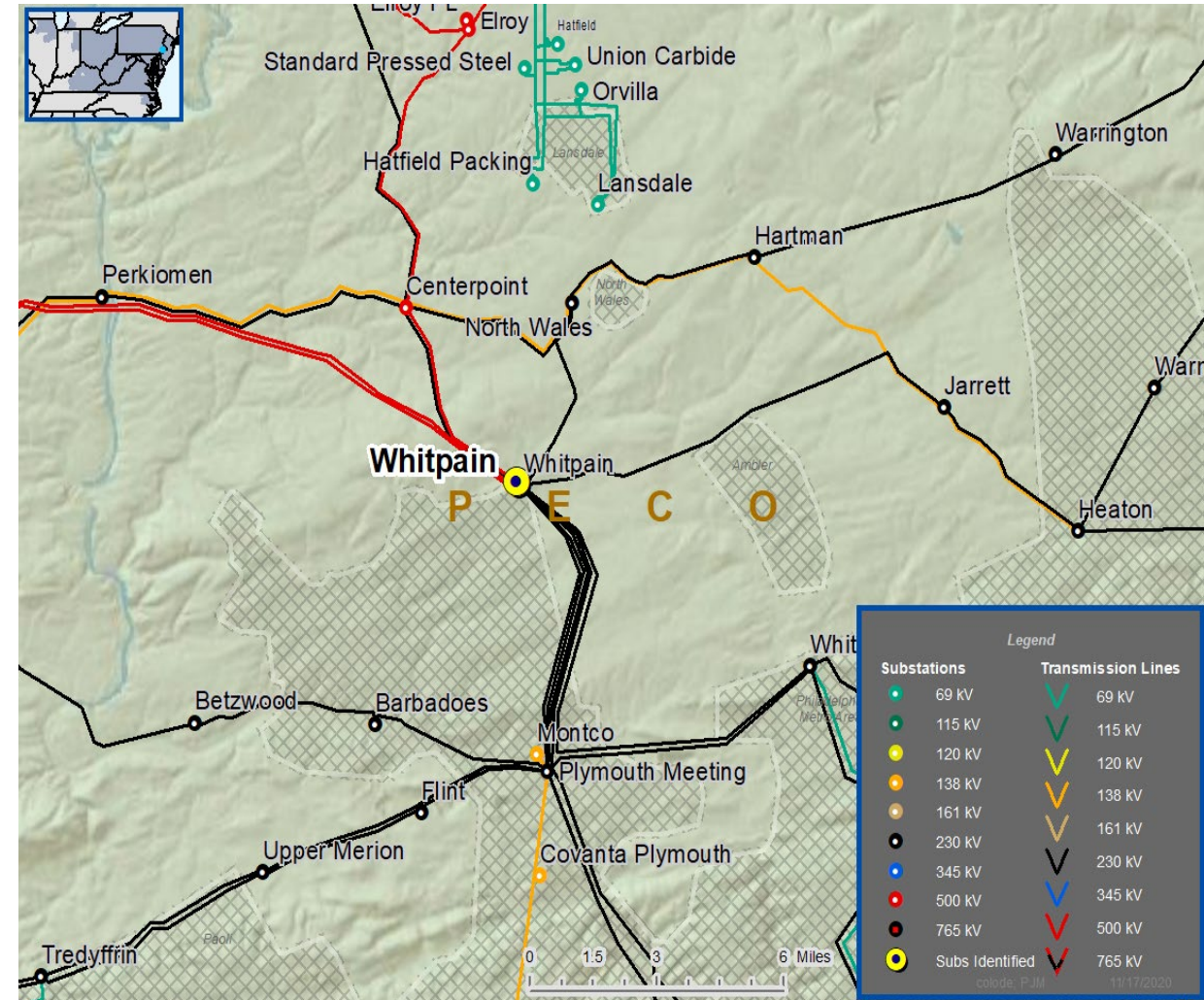
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

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

Problem Statement:

Whitpain 500kV circuit breaker #575 installed in 1968 is in deteriorating condition due to SF6 gas leaks, replacement part availability, and elevated maintenance cost.



Need Number: PE-2020-011

Process Stage: Need Meeting 12/1/2020

Supplemental Project Driver:

Project Driver:

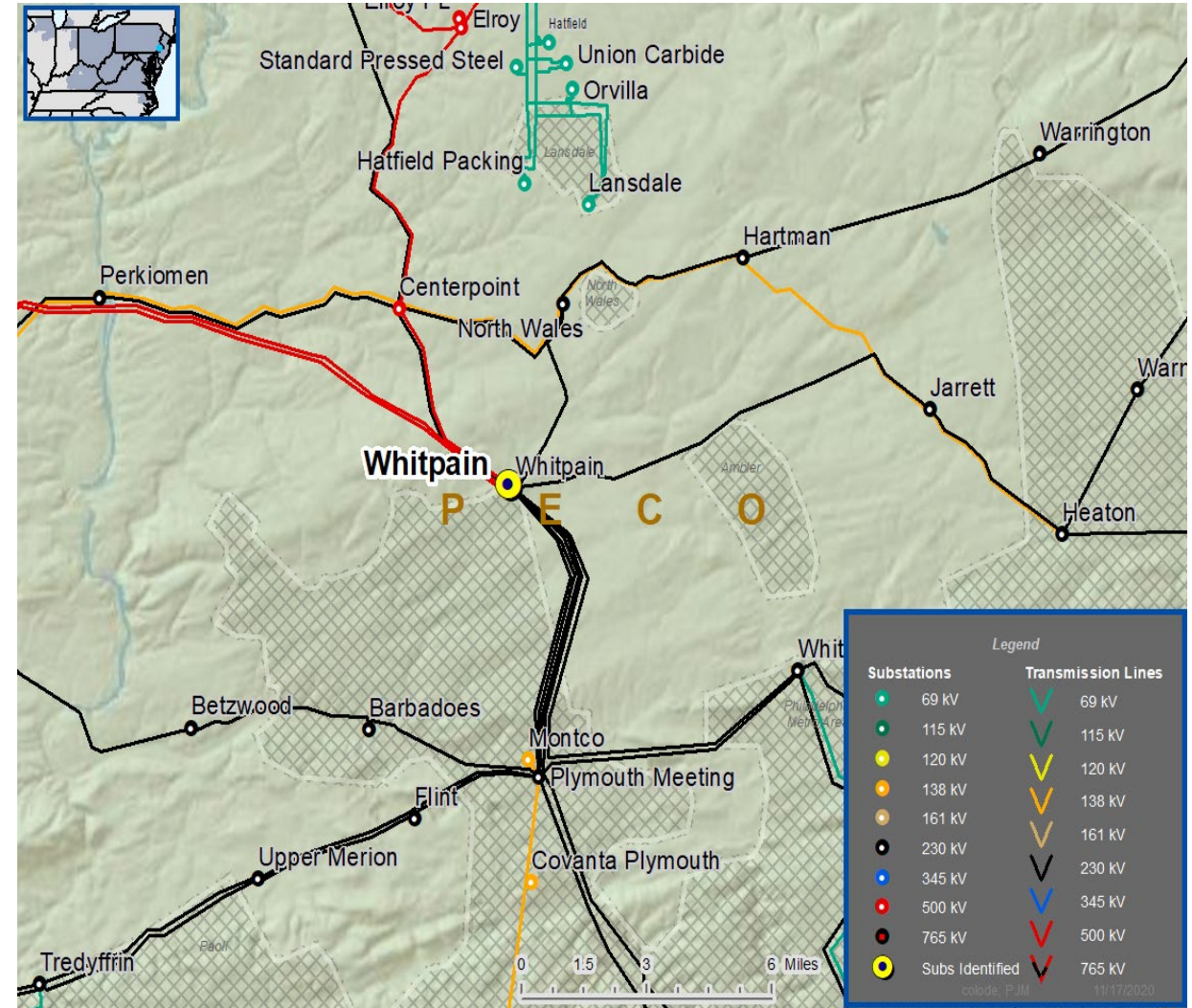
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

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

Problem Statement:

Whitpain 500kV circuit breaker #385 installed in 1968 is in deteriorating condition due to SF6 gas leaks, replacement part availability, and elevated maintenance cost.



Need Number: PE-2020-012

Process Stage: Need Meeting 12/1/2020

Supplemental Project Driver:

Project Driver:

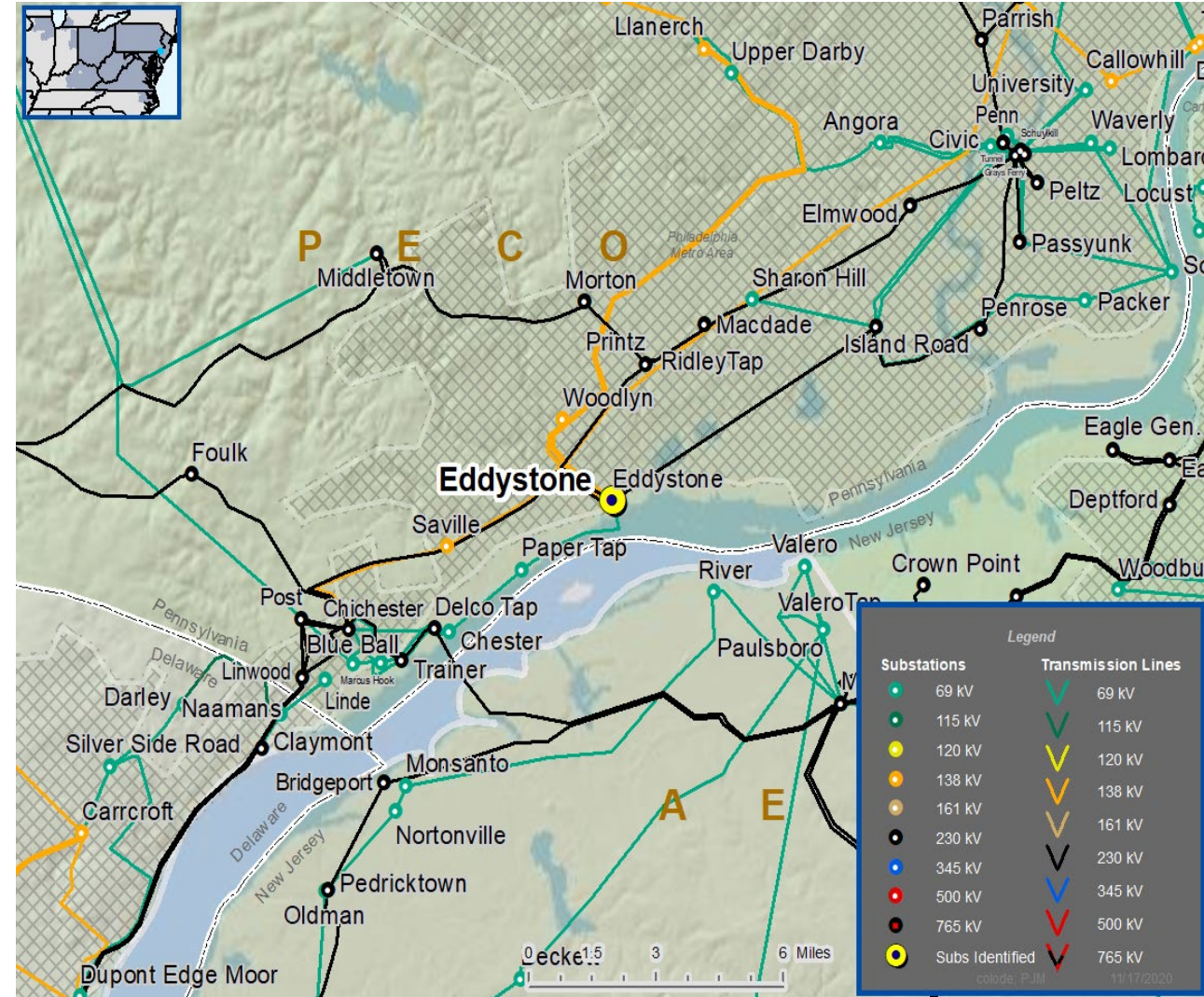
Operational Flexibility and Efficiency

Specific Assumption Reference:

- Provide Operations more options to deal with non-standard operating conditions
- Follow internal Transmission & Substation recommended designs
- Increasing system capacity

Problem Statement:

PECO substation control house equipment for its Eddystone substation is located inside a legacy generation owned facility.



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: PE-2020-007

Process Stage: Solution Meeting 12/1/2020

Previously Presented: Need Meeting 11/4/2020

Supplemental Project Driver:

Project Driver:

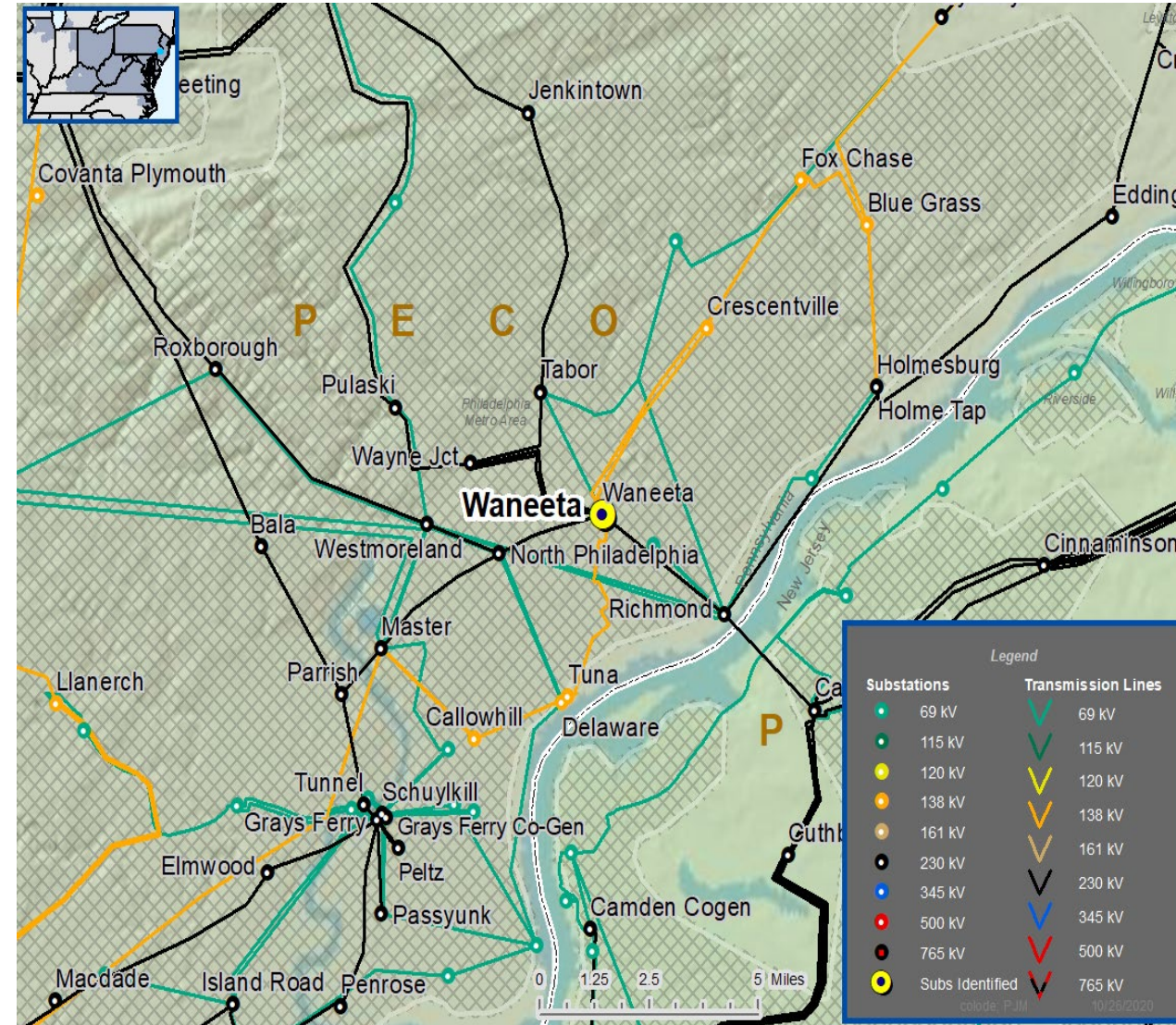
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

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

Problem Statement:

Waneeta 230kV circuit breaker #285 installed in 1968 is in deteriorating condition due to SF6 gas leaks, replacement part availability, and elevated maintenance cost.



Need Number: PE-2020-007

Process Stage: Solution Meeting 12/1/2020

Proposed Solution:

Replace Waneeta 230kV circuit breaker #285.

The estimated cost of the project is \$0.8M

Existing rating 2500 A, 42kA

New rating 3000 A, 63kA

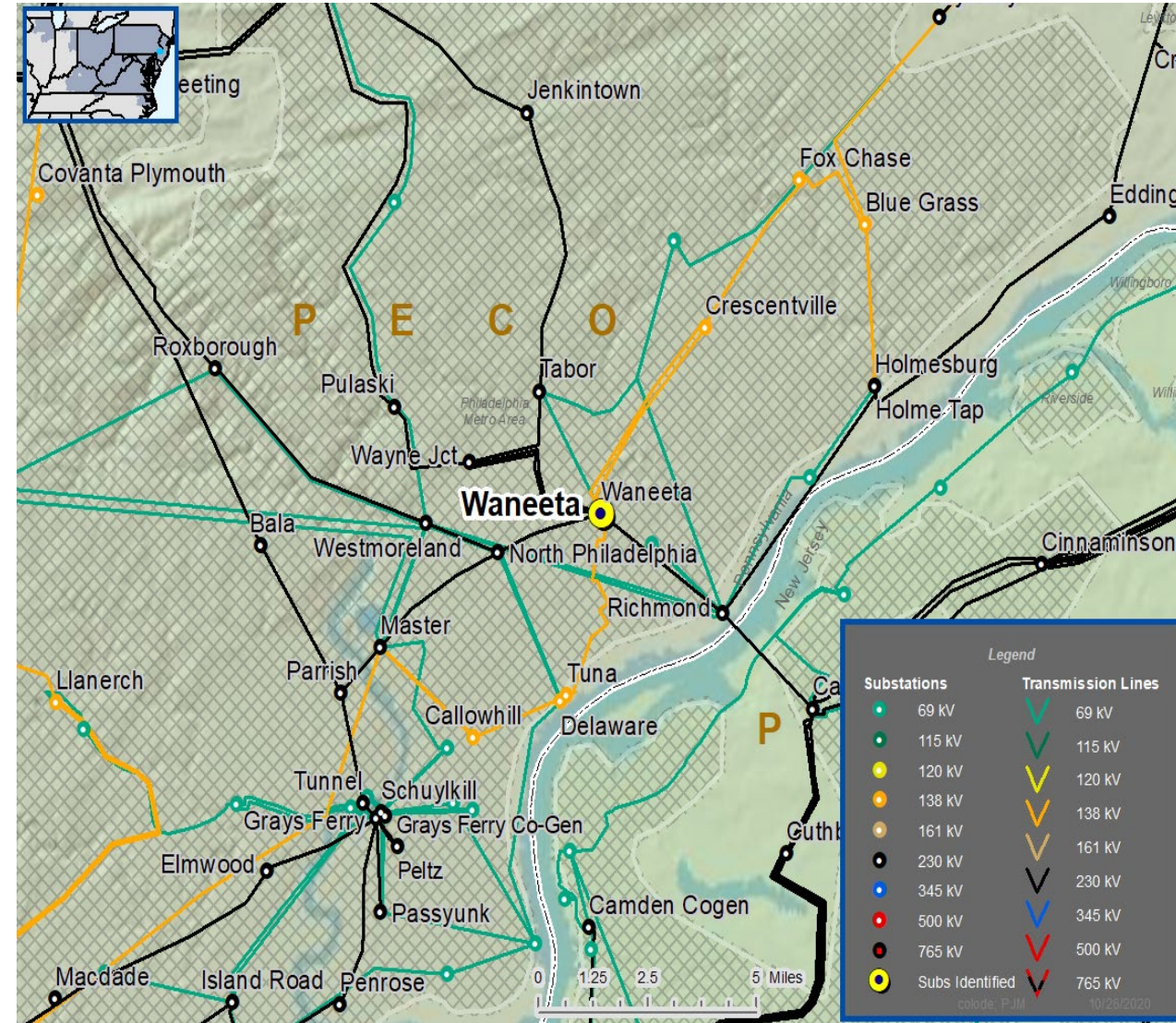
Alternatives Considered:

None

Projected In-Service: 6/1/2021

Project Status: Engineering

Model: 2025 RTEP



Need Number: PE-2020-008

Process Stage: Solution Meeting 12/1/2020

Previously Presented: Need Meeting 11/4/2020

Supplemental Project Driver:

Project Driver:

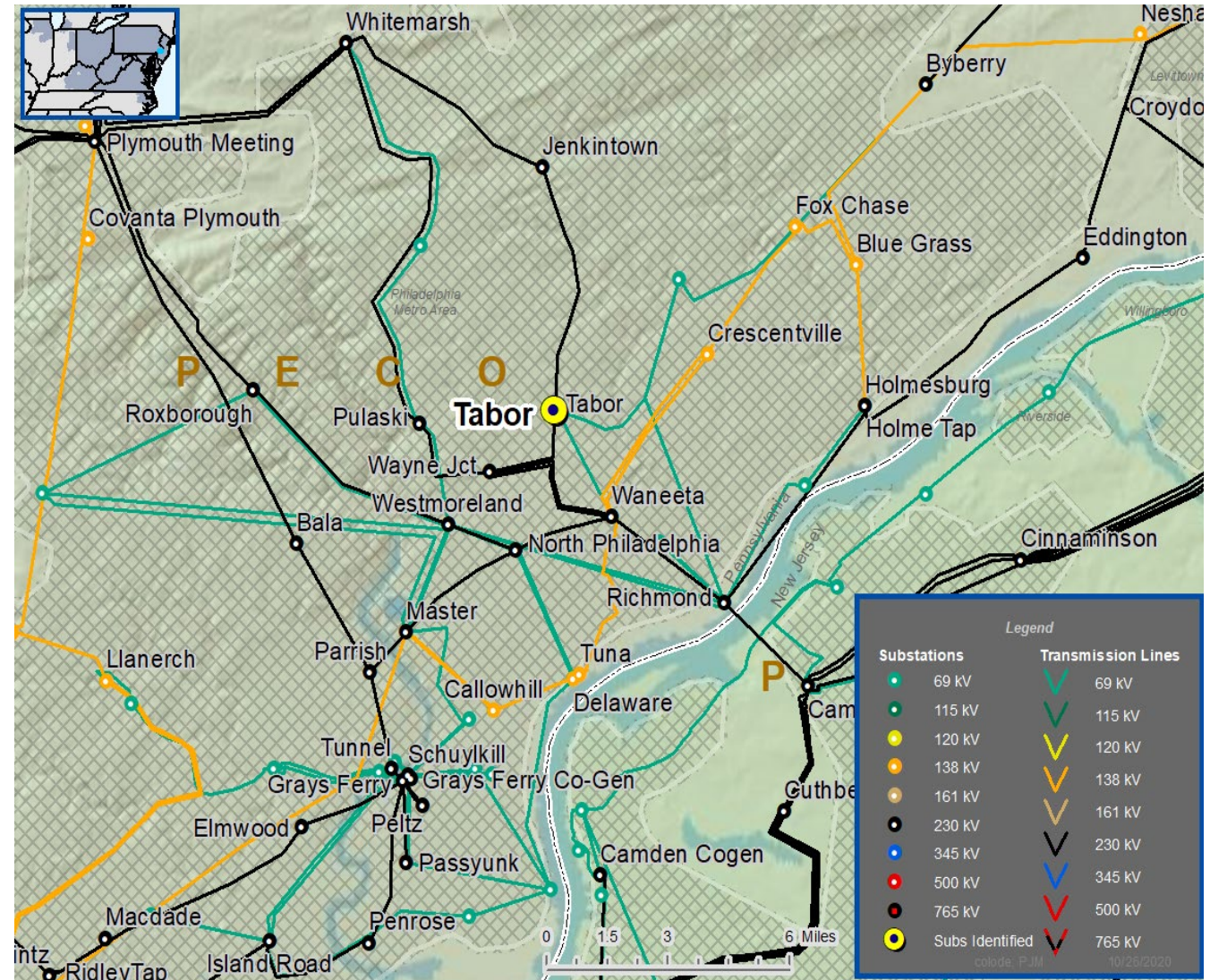
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

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

Problem Statement:

Tabor 230kV circuit breaker #905 installed in 1968 is in deteriorating condition due to SF6 gas leaks, replacement part availability, and elevated maintenance cost.



Need Number: PE-2020-008

Process Stage: Solution Meeting 12/1/2020

Proposed Solution:

Replace Tabor 230kV circuit breaker #905.

The estimated cost of the project is \$0.8M

Existing rating 2500 A, 42kA

New rating 3000 A, 63kA

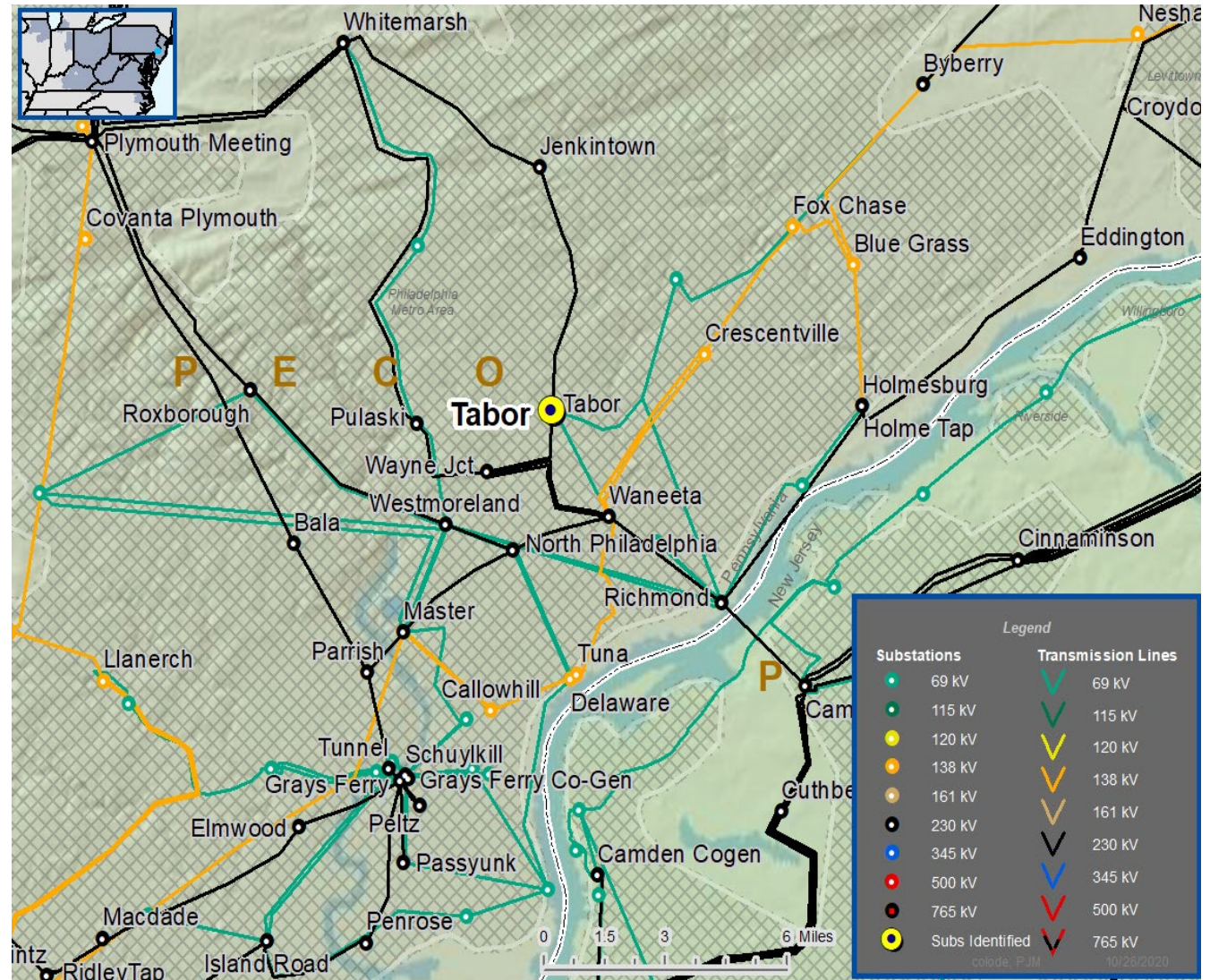
Alternatives Considered:

None

Projected In-Service: 6/1/2021

Project Status: Engineering

Model: 2025 RTEP



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

11/20/2020 - V1 – Original version posted to pjm.com