

# Transmission Expansion Advisory Committee – PECO Supplemental Projects

January 6, 2021

# 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-2020-009**

**Process Stage: Solution Meeting 01/06/2020**

**Previously Presented: Need Meeting 12/1/2020**

**Supplemental Project Driver:**

**Project Driver:**

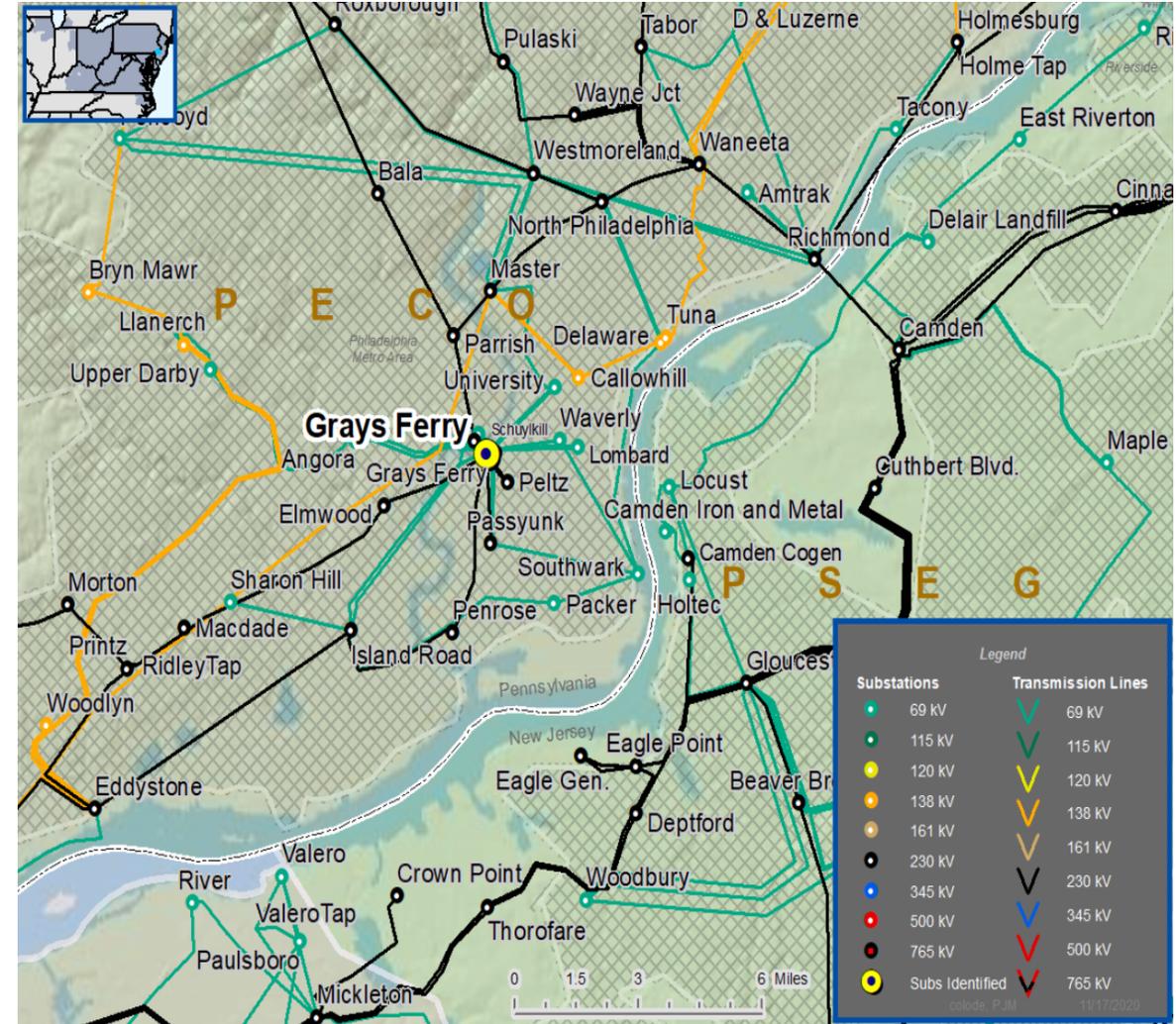
Equipment Material Condition, Performance, and Risk

**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-2020-009**

**Process Stage: Solution Meeting 01/06/2020**

**Proposed Solution:**

Replace the Grays Ferry 230kV circuit breaker #375.

The estimated cost of the project is \$0.9M

Existing rating 2500 A, 42kA

New rating 3000 A, 63kA

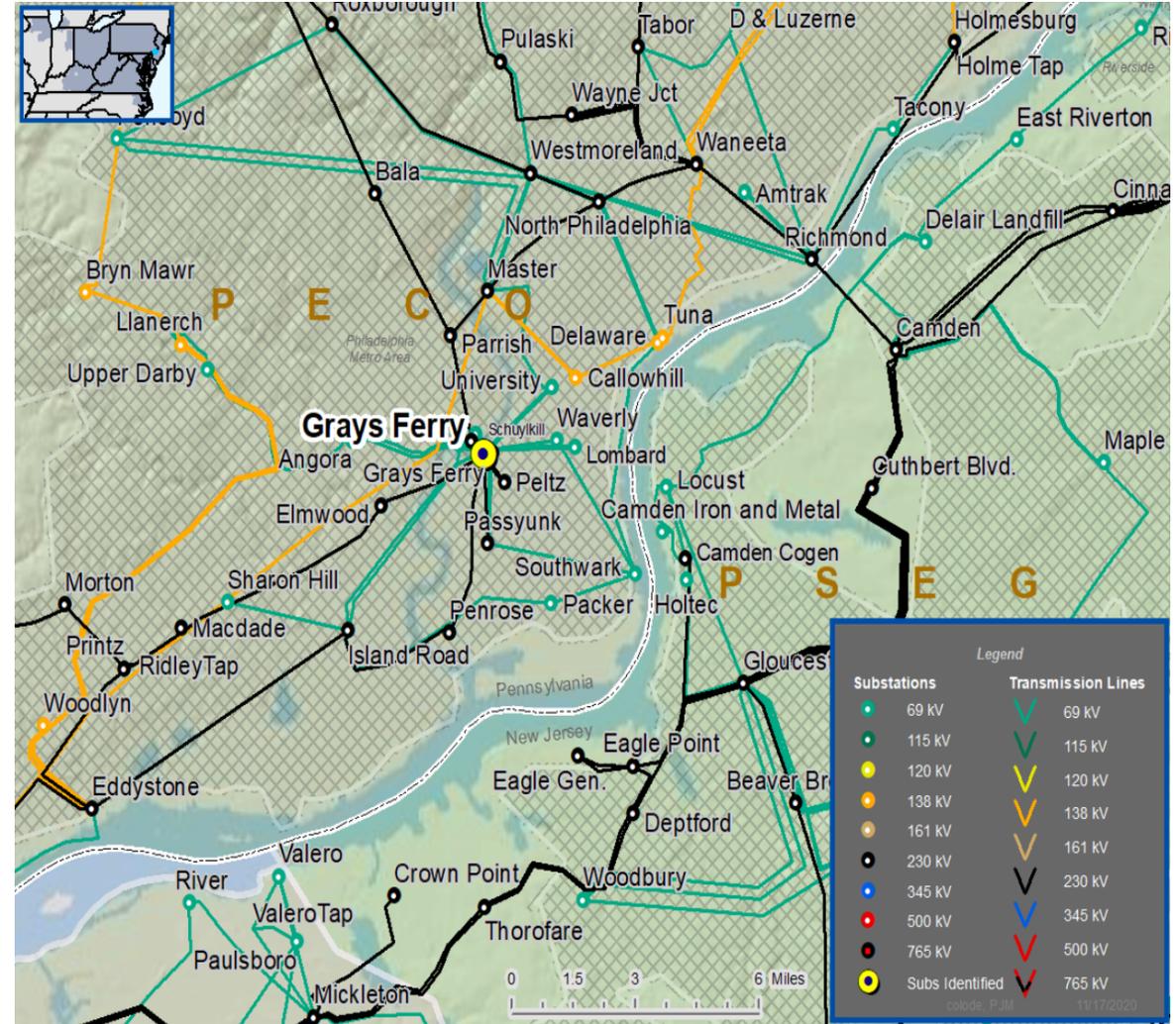
**Alternatives Considered:**

None

**Projected In-Service: 6/1//2021**

**Project Status: Engineering**

**Model: 2025 RTEP**



**Need Number: PE-2020-010**

**Process Stage:** Solution Meeting 01/06/2020

**Previously Presented:** Need Meeting 12/1/2020

**Supplemental Project Driver:**

**Project Driver:**

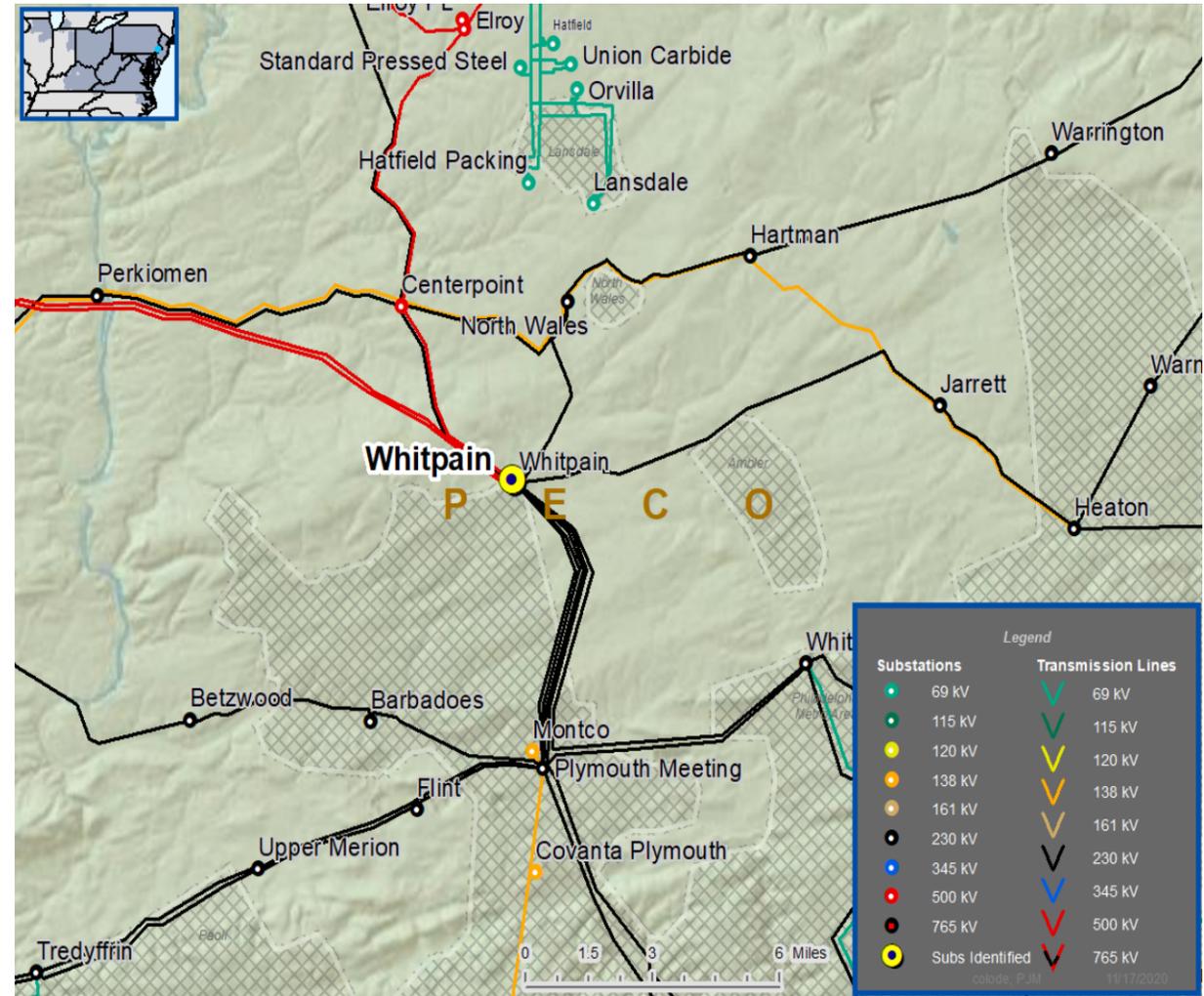
Equipment Material Condition, Performance, and Risk

**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-2020-010**

**Process Stage: Solution Meeting 01/06/2020**

**Proposed Solution:**

Replace the Whitpain 500kV circuit breaker #575.

The estimated cost of the project is \$1.3M

Existing rating 3000 A, 40kA

New rating 4000 A, 63kA

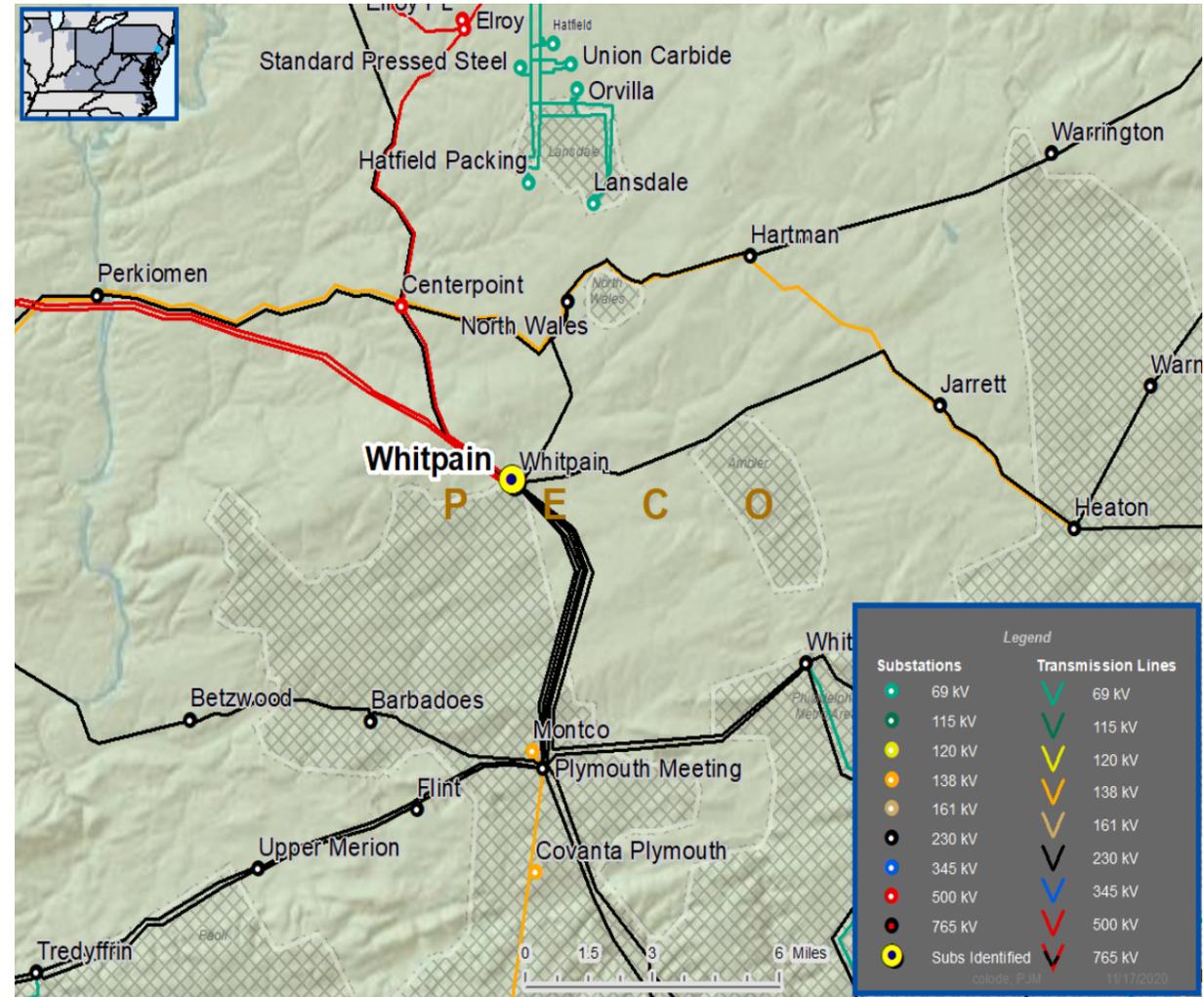
**Alternatives Considered:**

None

**Projected In-Service: 6/1//2021**

**Project Status: Engineering**

**Model: 2025 RTEP**



**Need Number: PE-2020-011**

**Process Stage:** Solution Meeting 01/06/2020

**Previously Presented:** Need Meeting 12/1/2020

**Supplemental Project Driver:**

**Project Driver:**

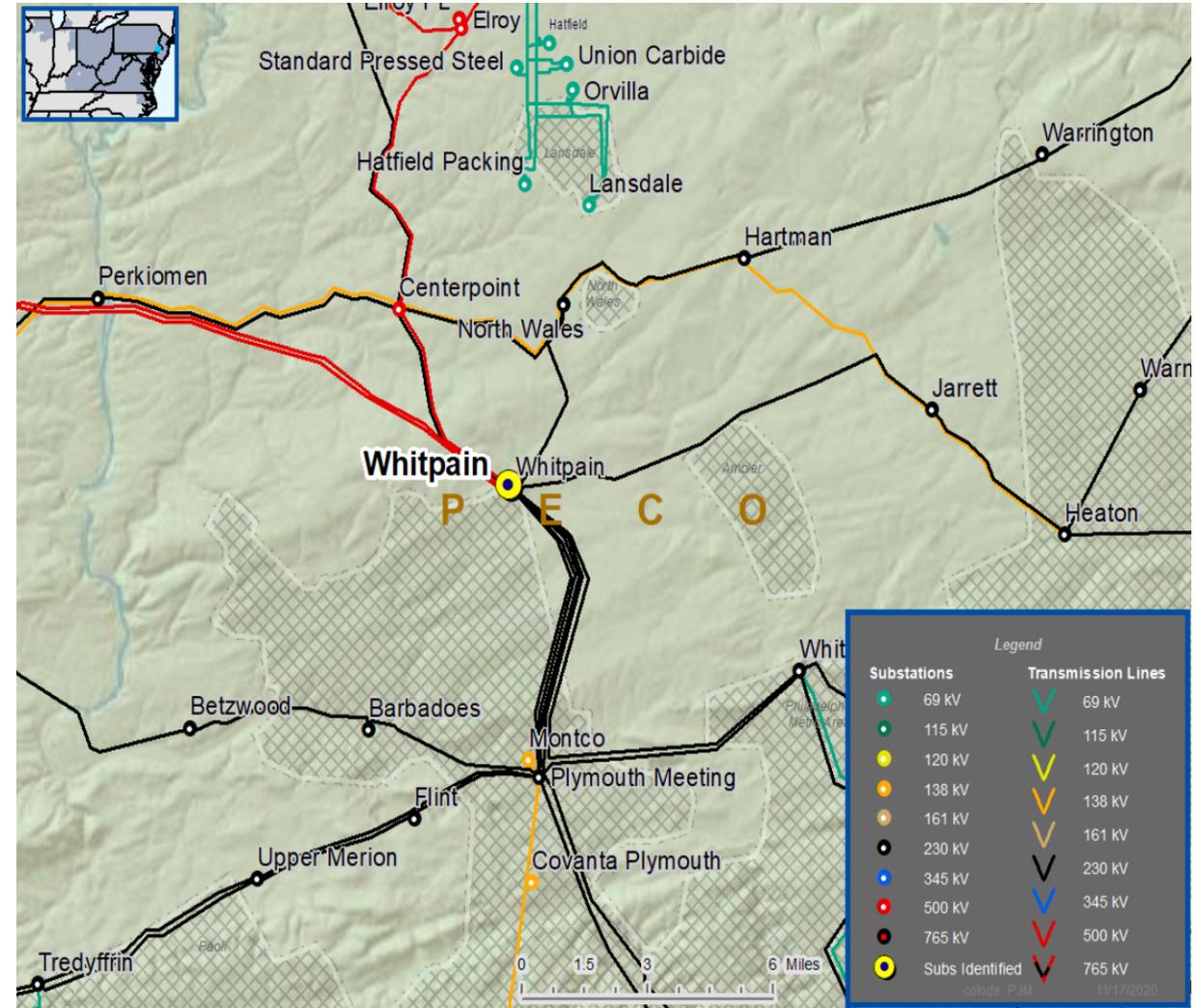
Equipment Material Condition, Performance, and Risk

**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-2020-011**

**Process Stage: Solution Meeting 01/06/2020**

**Proposed Solution:**

Replace the Whitpain 500kV circuit breaker #385.

The estimated cost of the project is \$1.3M

Existing rating 3000 A, 40kA

New rating 4000 A, 63kA

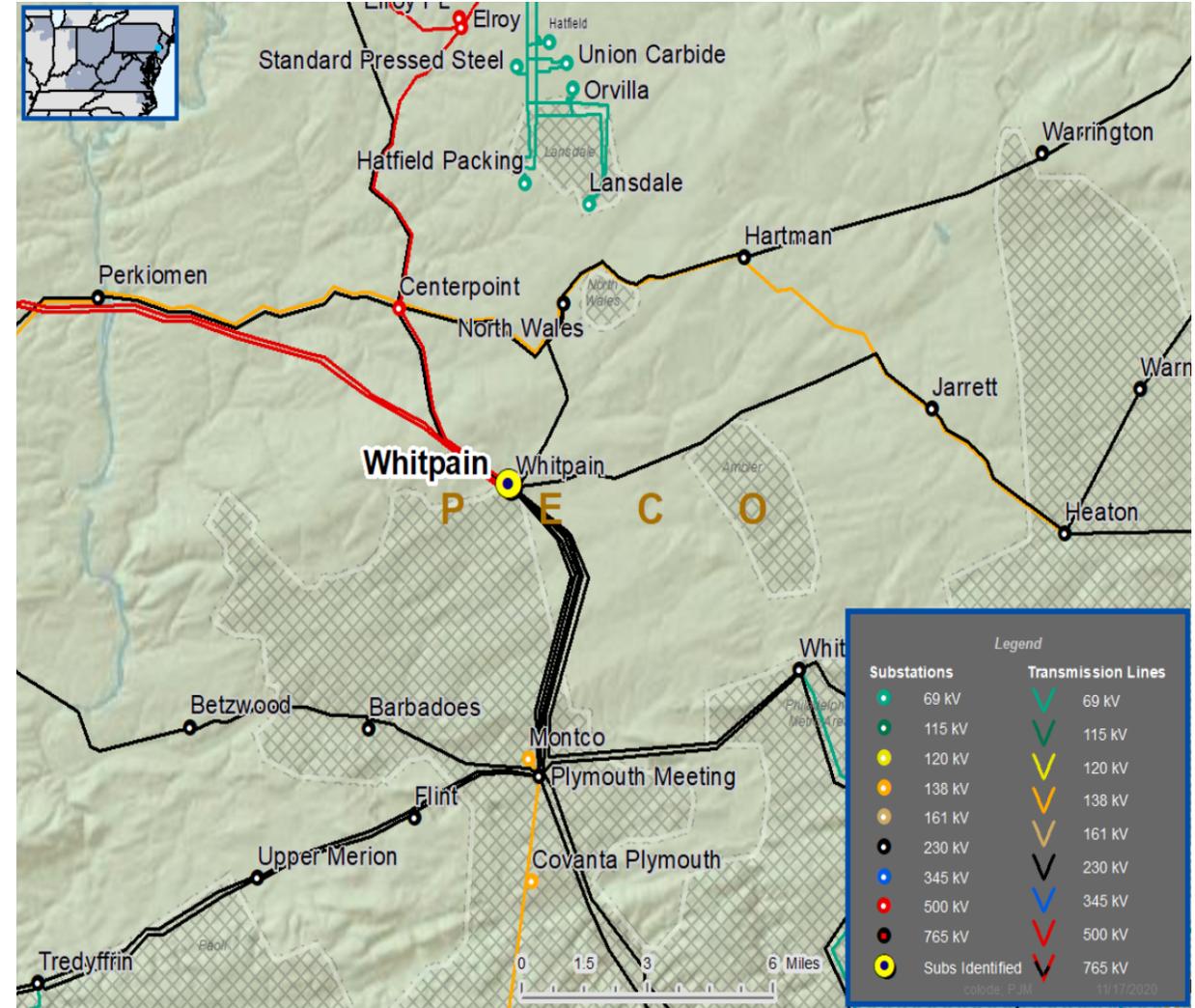
**Alternatives Considered:**

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

12/23/2020 - V1 – Original version posted to pjm.com