TEAC Committee
PECO
Supplemental Projects

December 1, 2026

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-2026-019

Process Stage: Need Meeting 12/1/2026

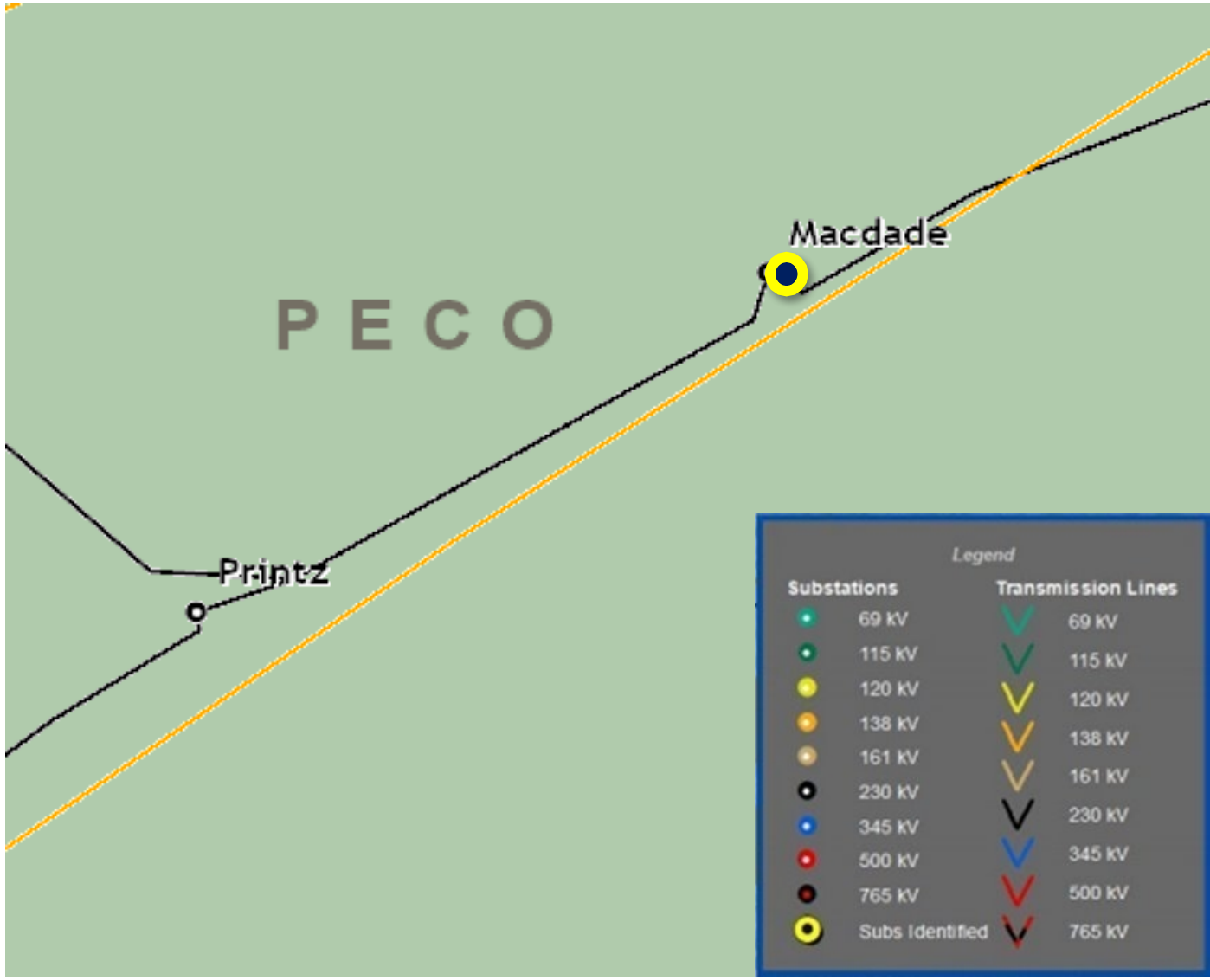
Project Driver: Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

- Environmental drivers

Problem Statement:

- The Macdade 230kV 467 motor operated disconnect has structures which are located below the flood plane level. Flooding could cause the disconnect to become deenergized impacting customers in the region.



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

M-3 Process
PECO Transmission Zone

Need Number: PE-2026-010

Process Stage: Solution Meeting 12/1/2026

Previously Presented: Need Meeting 4/7/2026

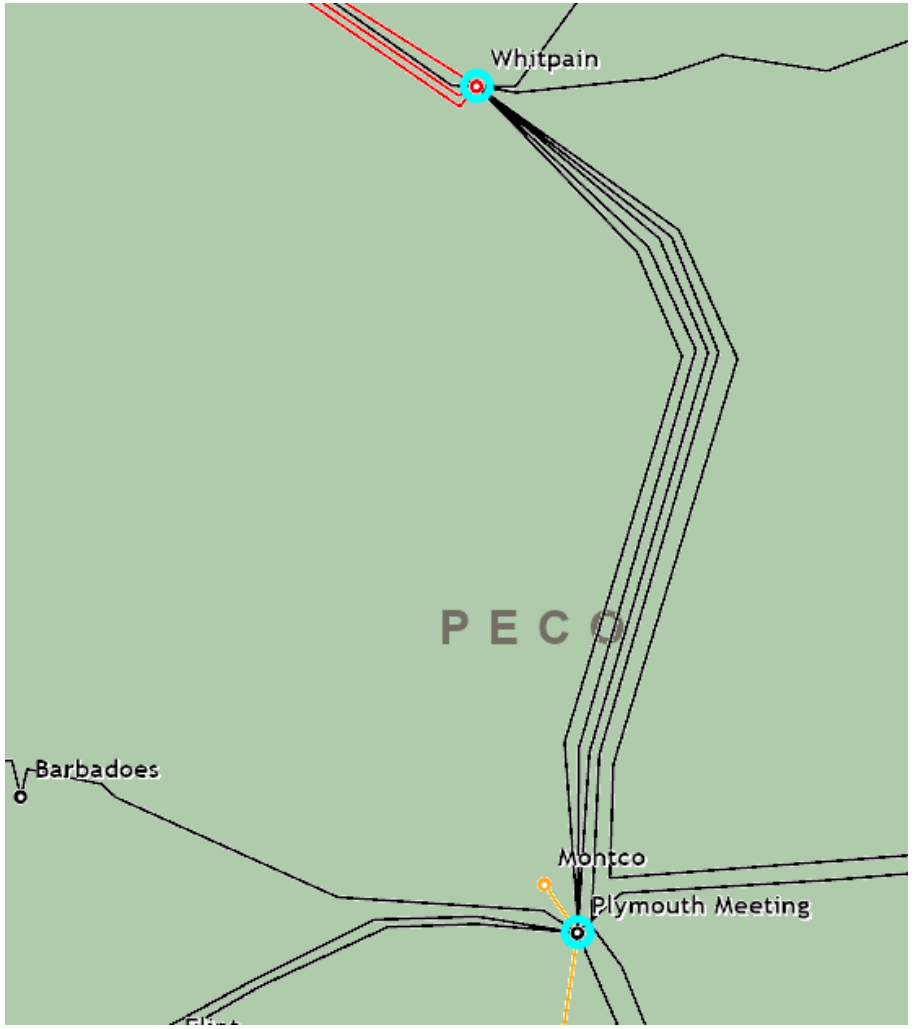
Project Driver: Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions

Problem Statement:

- 220-15 Plymouth Meeting – Whitpain is a 5.09 mile 230 kV line that was constructed in 1968 using aluminum lattice structures. These structures are now obsolete due to lack of repair and replacement parts.



PECO Transmission Zone M-3 Process
220-15 230 kV Line Rebuild

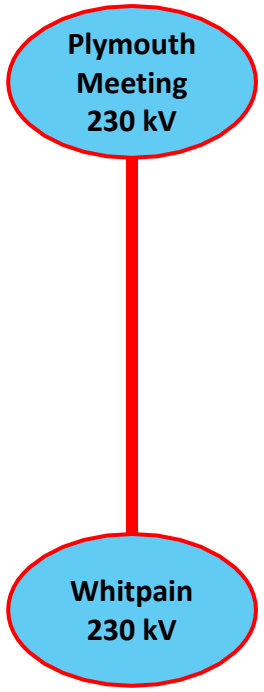
Need Number: PE-2026-010

Process Stage: Solutions Meeting 12/1/2026

Solution:

- Rebuild the 230kV 220-15 Plymouth Meeting – Whitpain 230 kV line with bundled 959.6 kcmil ACSS/TW Suwannee conductor, and new OPGW shield wire, on new structures shared with the 230kV 220-14 line.
- Replace disconnects, metering and station cable at Plymouth Meeting and Whitpain substations.
- Ratings for the lines have increased as shown in the table below (expressed as Normal/Emergency MVA).

Existing ratings (MVA)	**SN/SE**	**WN/WE**
220-15 Line	456/572	513/632
New Ratings (MVA)	**SN/SE**	**WN/WE**
220-15 Line	996/1159	996/1159



Estimated Transmission Cost: $13.5M

Alternatives Considered:

1. No feasible alternatives considered

Projected In-Service: 12/01/2029

Project Status: Engineering

Model: 2030 RTEP

M-3 Process
PECO Transmission Zone

Need Number: PE-2026-014

Process Stage: Solution Meeting 12/1/2026

Previously Presented: Need Meeting 10/6/2026

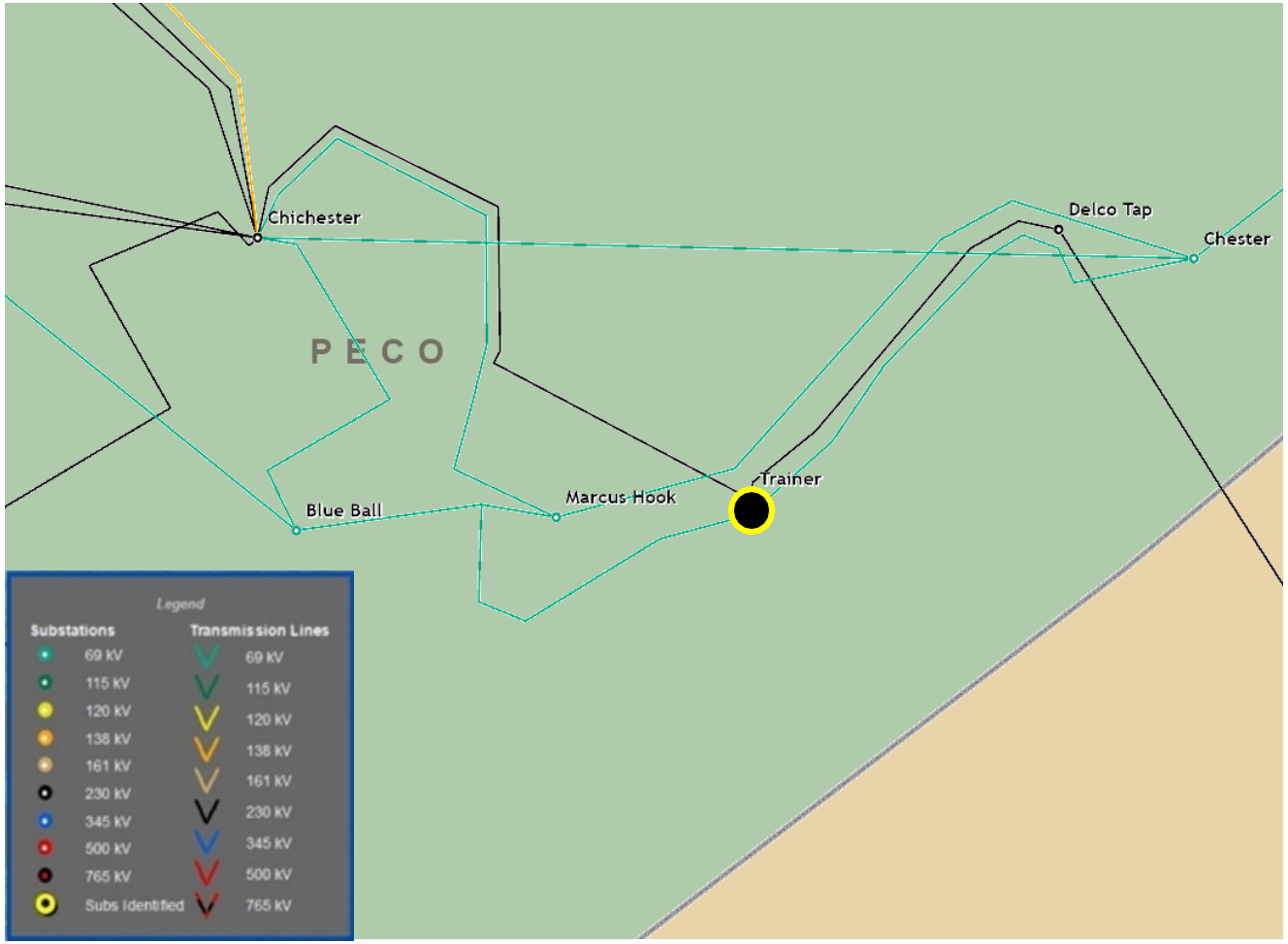
Project Driver: Equipment Material Condition, Performance, and Risk

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, cables, etc.

Problem Statement:

- Trainer 230kV circuit breakers 785 and 875 are oil filled breakers installed in 1973 and 1983 (respectively) and are in deteriorating condition, have lack of replacement parts, and elevated maintenance cost.



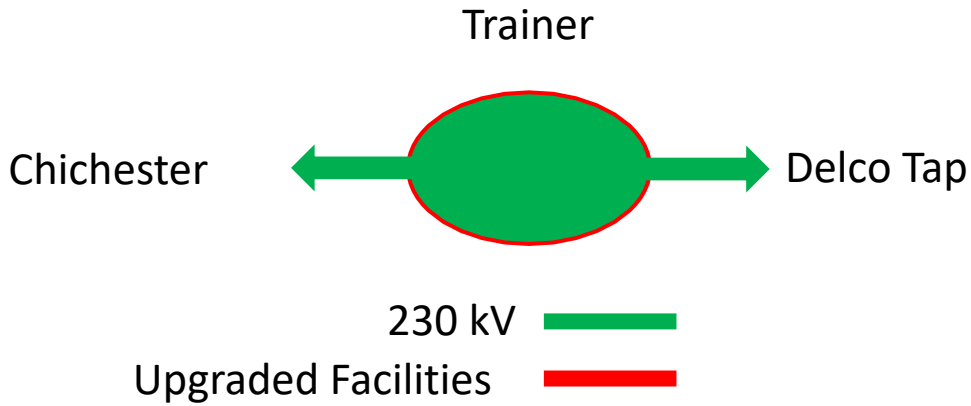
Need Number: PE-2026-014

Process Stage: Solution Meeting 12/1/2026

Solution:

Replacement of 230kV CBs 785 and 875 with SF6 circuit breakers, replacement of disconnect switches and associated CTs. The breaker short circuit ratings will increase from 40 kA to 63 kA.

	Existing Short Circuit Rating	New Short Circuit Rating
Trainer CB 785	40 kA	63 kA
Trainer CB 875	40 kA	63 kA



Estimated Transmission Cost: $1.5M

Alternatives Considered:

1. No feasible alternatives available

Projected In-Service: 4/9/2027

Project Status: Engineering

Need Number: PE-2026-015

Process Stage: Solution Meeting 12/1/2026

Previously Presented: Need Meeting 10/6/2026

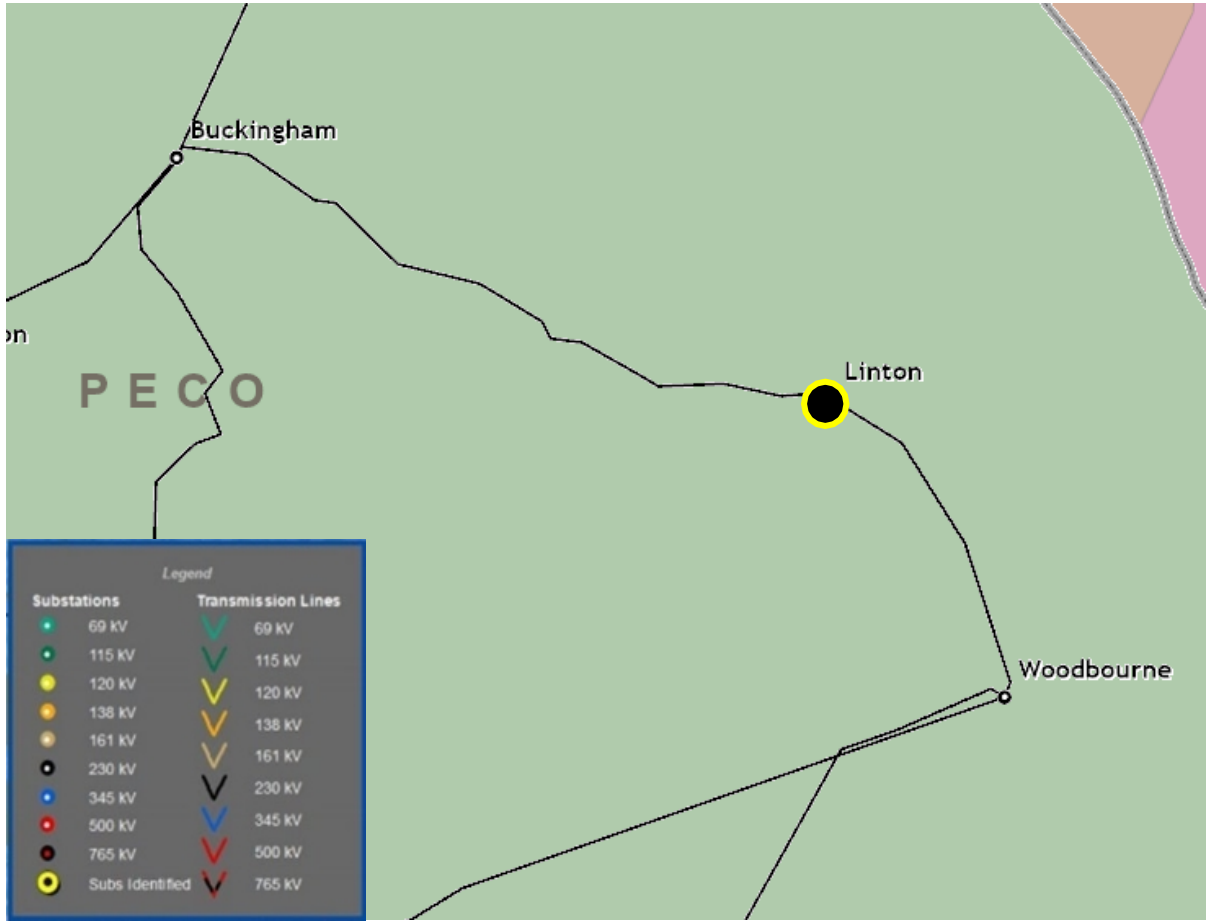
Project Driver: Equipment Material Condition, Performance, and Risk

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, cables, etc.

Problem Statement:

- Linton 230kV circuit breaker 785 is an oil filled breaker installed in 1990 and is in deteriorating condition, has lack of replacement parts, and elevated maintenance cost.



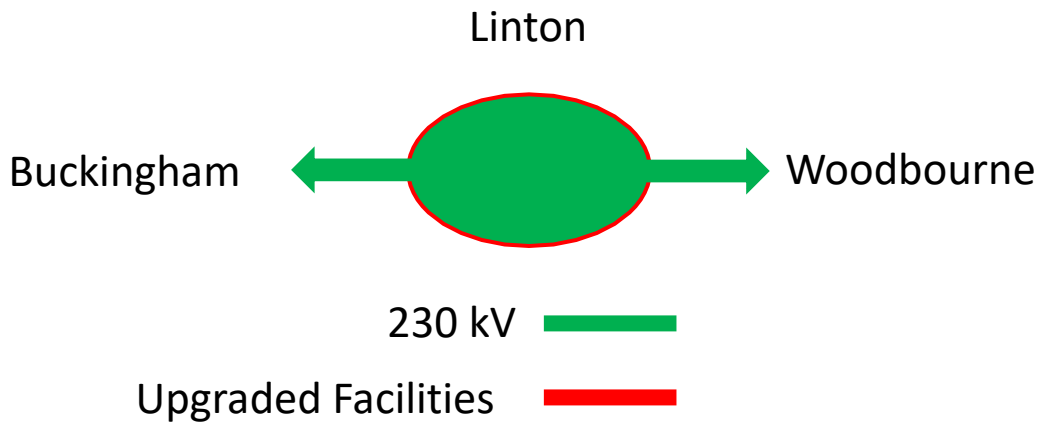
Need Number: PE-2026-015

Process Stage: Solution Meeting 12/1/2026

Solution:

Replacement of 230kV CB 785 with SF6 circuit breaker, replacement of disconnect switches and associated CTs. The breaker short circuit rating will increase from 40 kA to 63 kA.

	Existing Short Circuit Rating	New Short Circuit Rating
Linton CB 785	40 kA	63 kA



Estimated Transmission Cost: $1.1M

Alternatives Considered:

1. No feasible alternatives available

Projected In-Service: 10/29/2027

Project Status: Engineering

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

11/20/2026 – V1 posted