TEAC Committee
PECO
Supplemental Projects

March 10, 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

M-3 Process
PECO Transmission Zone

Need Number: PE-2026-005

Process Stage: Need Meeting 3/10/2026

Project Driver: Operational Flexibility and Efficiency

Specific Assumption Reference:

Enhancing system functionality, flexibility, visibility, or operability.

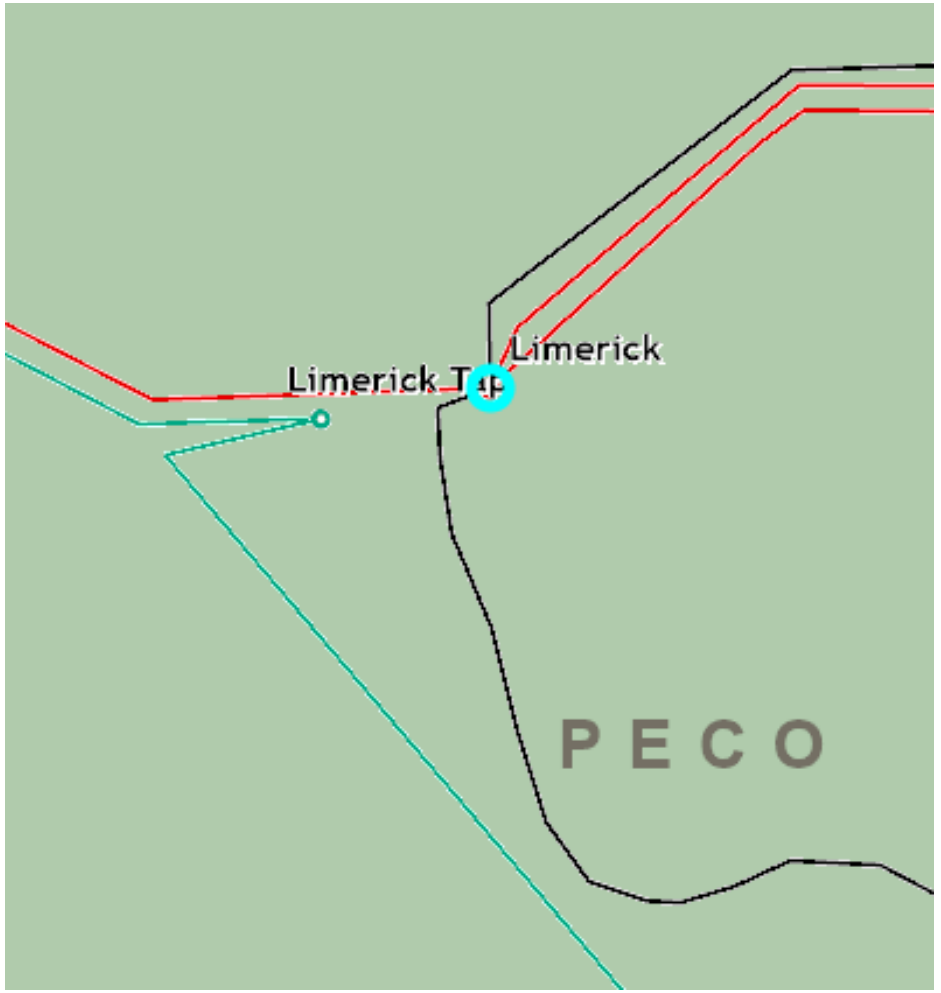
Provide Operations more option to deal with non-standard operating conditions.

Remedy recurring operational problems.

Problem Statement:

Limerick substation has a single 500/230 kV transformer bank. This limits the operational flexibility when scheduling 500kV and 230kV outages, resulting in operational actions needed.

The current configuration has been determined to no longer supports operational needs including but not limited to equipment maintenance outages.



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-2025-009

Process Stage: Solution Meeting 3/10/2026

Previously Presented: Need Meeting 11/4/2025

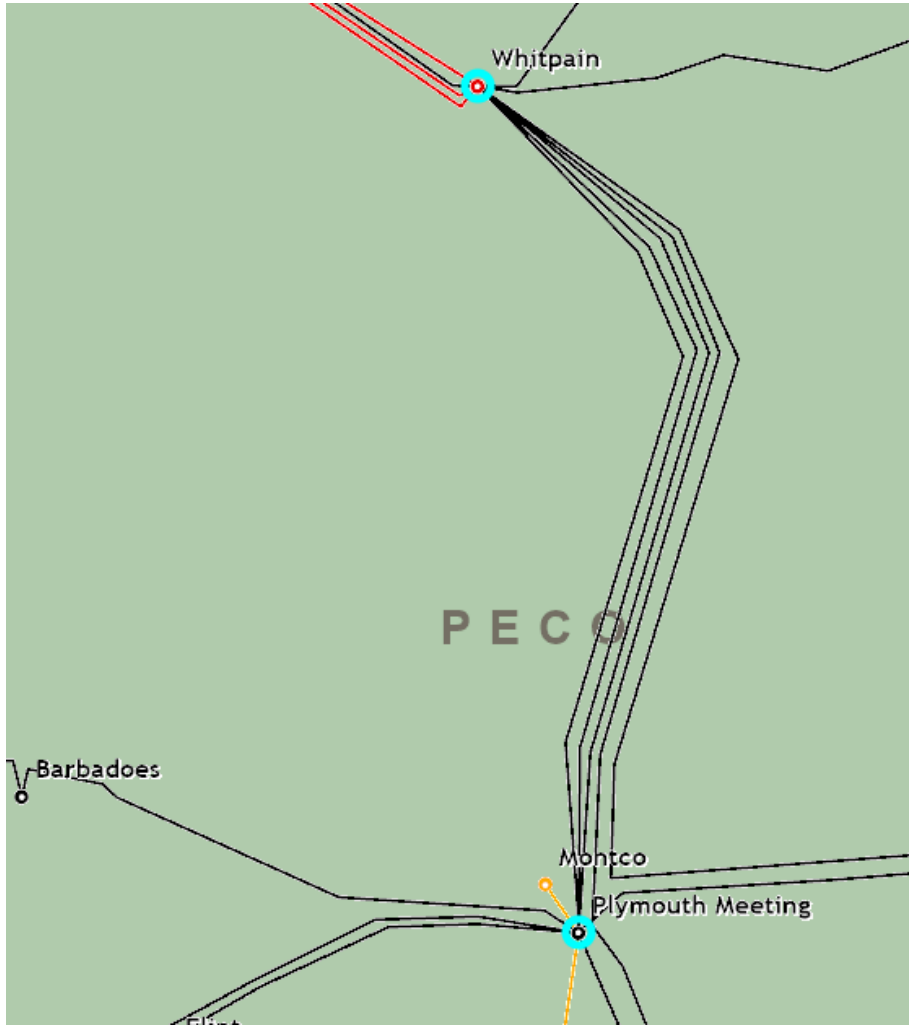
Project Driver: Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

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

Problem Statement:

- The 230 kV line 220-13 Plymouth Meeting – Whitpain is a 5.12 mile line with 795 kcmil 30/19 ACSR conductor that was constructed in 1930. This line is 95 years old and nearing end of useful life.
- The static conductor is estimated to be around 65 years old and is nearing end of useful life.
- Tower bolts and paint coatings on all structures are 95 years old and need to be replaced.



PECO Transmission Zone M-3 Process
220-13 230 kV Line Rebuild

Need Number: PE-2025-009

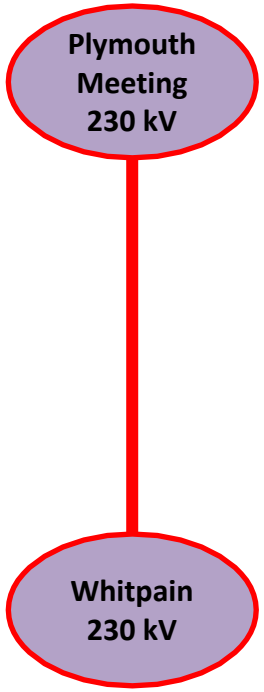
Process Stage: Solutions Meeting 3/10/2026

Solution:

Rebuild the 230 kV 220-13 Plymouth Meeting – Whitpain line with new steel double-circuited monopoles, bundled 959.6 kcmil ACSS/TW Suwannee conductor, and new OPGW shield wire.

Ratings for the line have increased as shown in the table below (expressed as Normal/Emergency MVA).

Existing ratings (MVA)	**SN/SE**	**WN/WE**
220-13 Line	456/572	513/632
New Ratings (MVA)	**SN/SE**	**WN/WE**
220-13 Line	1523/1767	1597/1843



Estimated Transmission Cost: $44 M

Alternatives Considered:

1. No feasible alternatives considered

Projected In-Service: 07/01/2029

Project Status: Engineering

Model: 2029 RTEP

M-3 Process
PECO Transmission Zone

Need Number: PE-2025-010

Process Stage: Solution Meeting 3/10/2026

Previously Presented: Need Meeting 11/4/2025

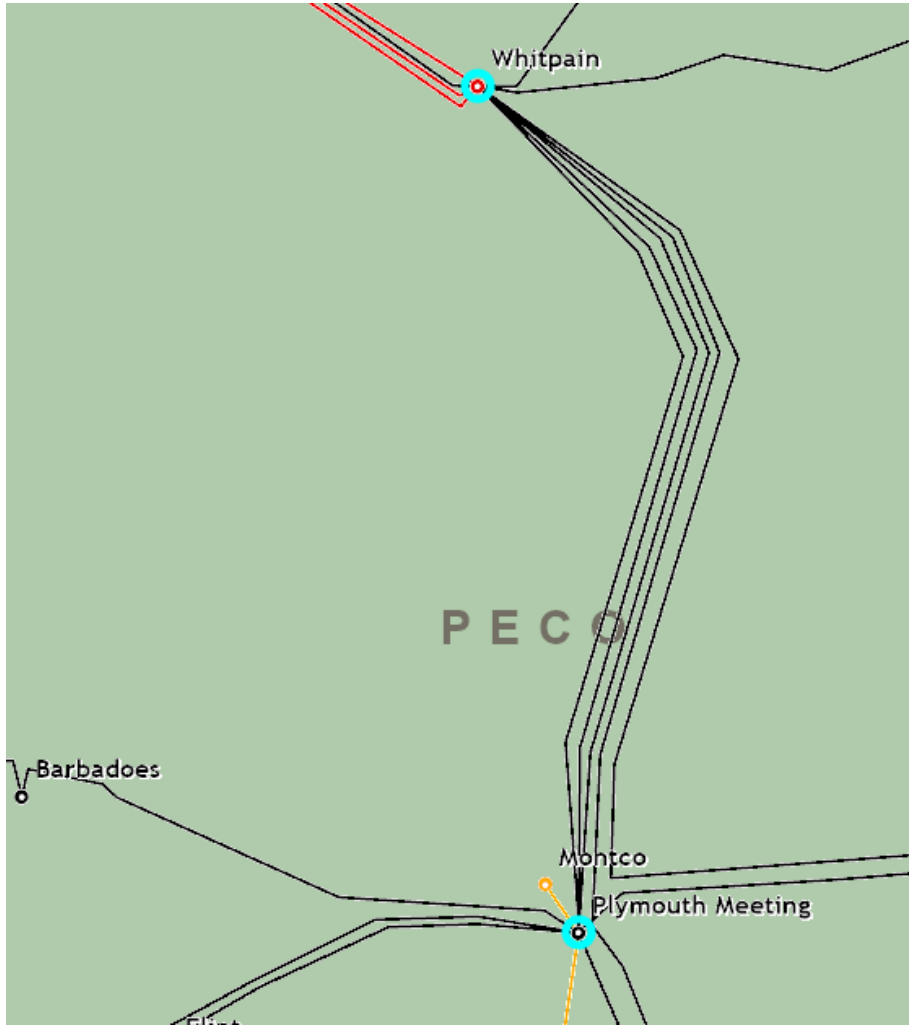
Project Driver: Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

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

Problem Statement:

- The 230 kV line 220-14 Plymouth Meeting – Whitpain is a 5.12 mile line with 795 kcmil 30/19 ACSR conductor that was constructed in 1930. This line is 95 years old and nearing end of useful life.
- The static conductor is estimated to be around 65 years old and is nearing end of useful life.
- Tower bolts and paint coatings on all structures are 95 years old and need to be replaced.



PECO Transmission Zone M-3 Process
220-14 230 kV Line Rebuild

Need Number: PE-2025-010

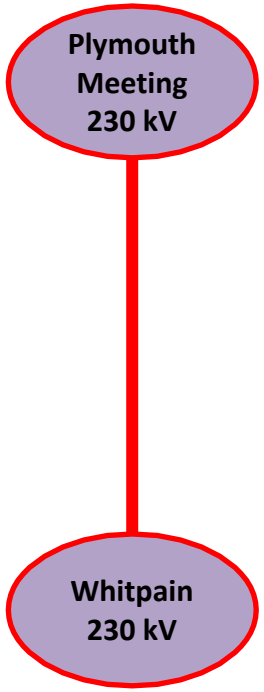
Process Stage: Solutions Meeting 3/10/2026

Solution:

Rebuild the 230 kV 220-14 Plymouth Meeting – Whitpain line with new steel double-circuited monopoles, bundled 959.6 kcmil ACSS/TW Suwannee conductor, and new OPGW shield wire.

Ratings for the line have increased as shown in the table below (expressed as Normal/Emergency MVA).

Existing ratings (MVA)	**SN/SE**	**WN/WE**
220-13 Line	456/572	513/632
New Ratings (MVA)	**SN/SE**	**WN/WE**
220-13 Line	1523/1767	1597/1843



Estimated Transmission Cost: $44 M

Alternatives Considered:

1. No feasible alternatives considered

Projected In-Service: 12/31/2029

Project Status: Engineering

Model: 2029 RTEP

M-3 Process
PECO Transmission Zone

Need Number: PE-2026-02

Process Stage: Solutions Meeting 3/10/2026

Previously Presented: Need Meeting 01/06/2026

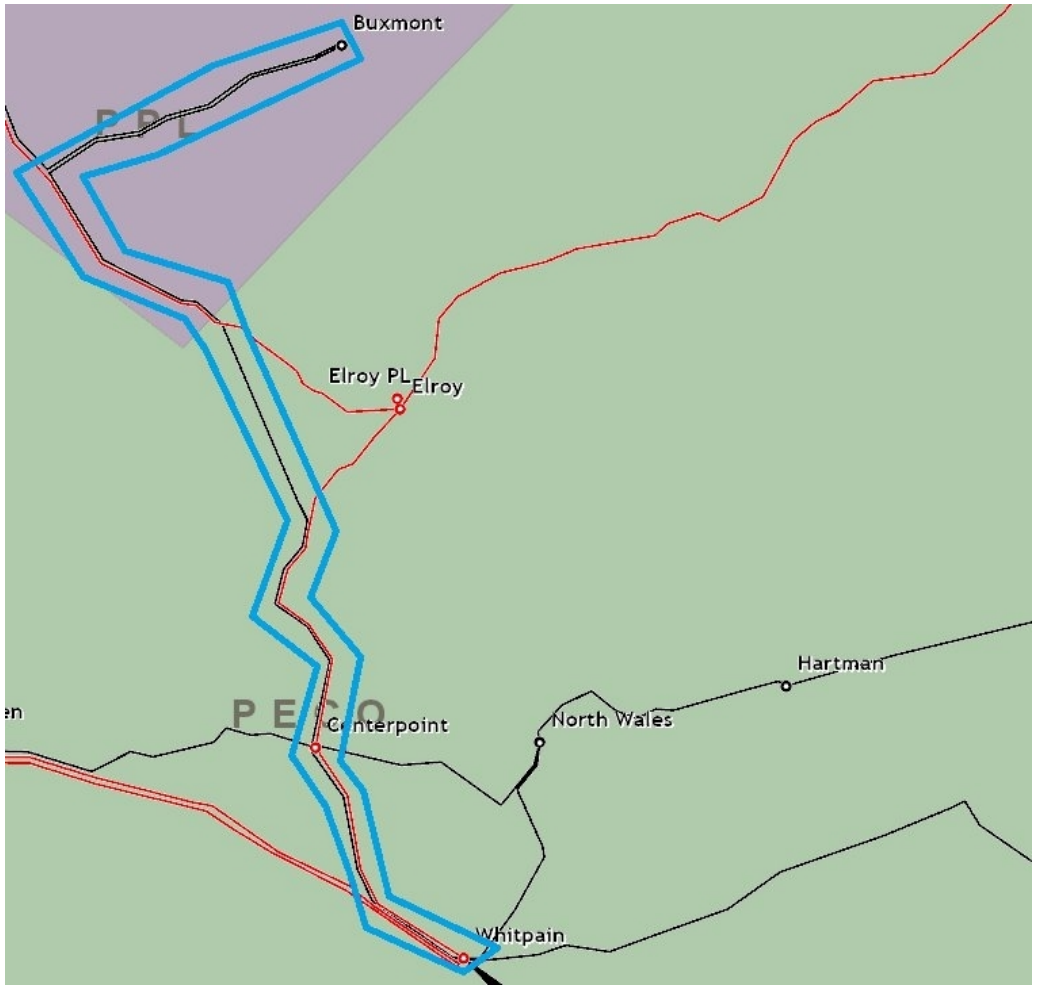
Project Driver: Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

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

Problem Statement:

- The 230 kV Line 220-10 Buxmont – Whitpain is made of 795 kcmil 30/19 ACSR conductor that was constructed in 1927. This line is 98 years old and nearing end of useful life.
- The majority of the of equipment on 220-10 is 98 years old and nearing end of useful life.



PECO Transmission Zone M-3 Process
220-10 230 kV Line Rebuild

Need Number: PE-2026-02

Process Stage: Solutions Meeting 3/10/2026

Solution:

Rebuild the 230 kV 220-10 Buxmount – Whitpain line with new galvanized steel monopoles, 959.6 kcmil ACSS/TW Suwannee conductor, and new OPGW shield wire.

Ratings for the line have increased as shown in the table below (expressed as Normal/Emergency MVA).

Existing ratings (MVA)	**SN/SE**	**WN/WE**
220-10 Line	462/578	520/639
New Ratings (MVA)	**SN/SE**	**WN/WE**
220-10 Line	1111/1365	1373/1545

Estimated Transmission Cost: $54 M

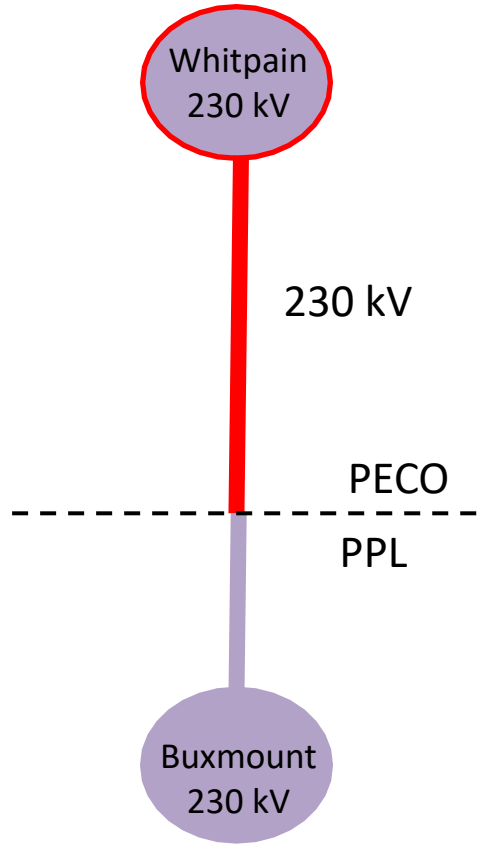
Alternatives Considered:

1. No feasible alternatives considered

Projected In-Service: 12/31/2028

Project Status: Engineering

Model: 2029 RTEP



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

02/27/2026 – V1 – Original version posted to pjm.com