



TEAC Committee  
PECO  
Supplemental Projects

June 2, 2026

# 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:** PE-2026-007

**Process Stage:** Solution Meeting 6/2/2026

**Previously Presented:** Need Meeting 4/7/2026

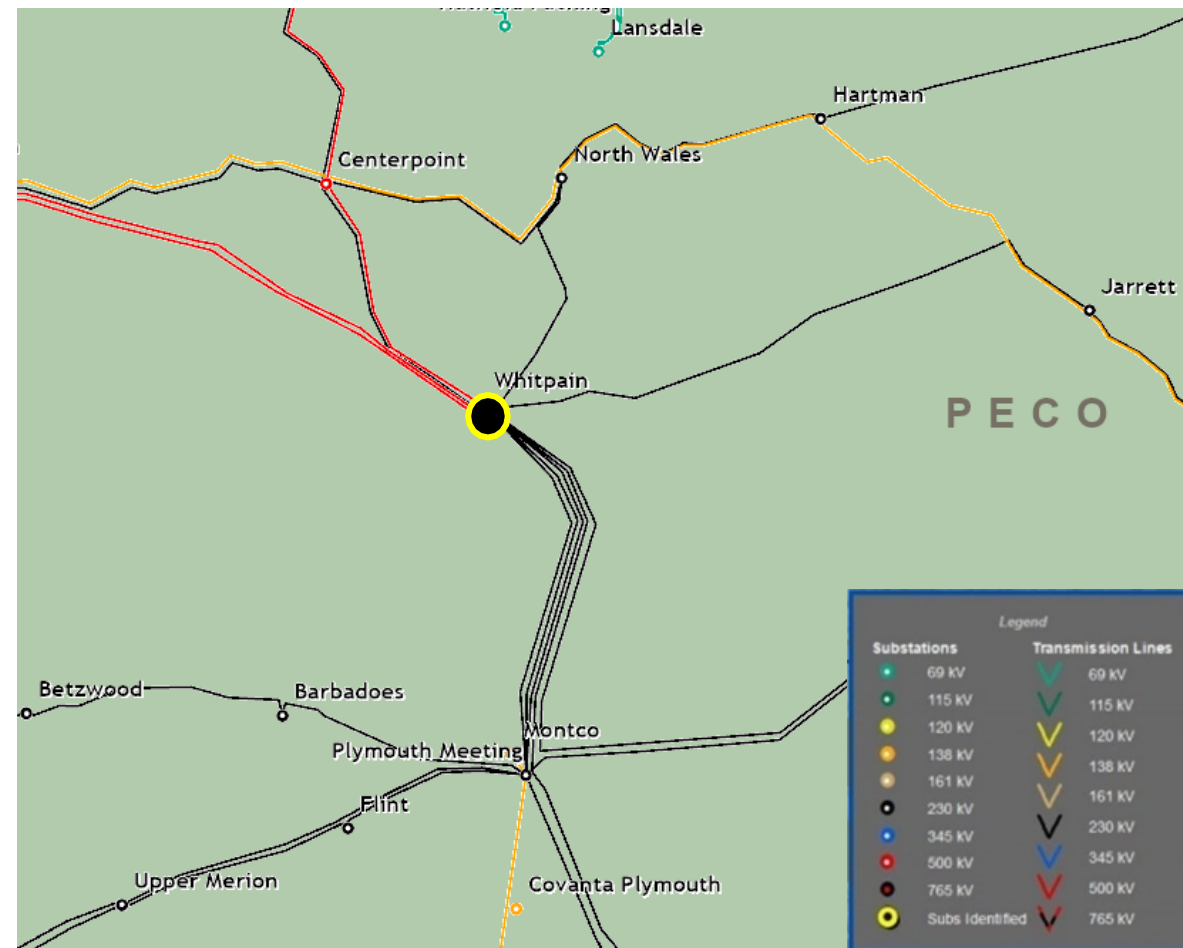
**Project Driver:** Equipment Material Condition, Performance, and Risk, Customer Service

**Specific Assumption Reference:**

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

**Problem Statement:**

- The Whitpain 230 kV 2-3 bus tie includes two circuit breakers, CB 235 and 325, which consist of components that are considered obsolete due to lack of available parts and are being phased out of the system.
- The breakers are 27 years old and are approaching end of life.
- This facility has also been identified as a limitation in ensuring the ability to serve current and new customers.



**Need Number:** PE-2026-007

**Process Stage:** Solutions Meeting 6/2/2026

**Solution:**

- Replacement of 230kV CB235 and CB325 with SF6 circuit breakers and associated disconnect switches, bus conductor, and station cable.
- The bus tie facility ratings will increase as shown in the table below.

	Summer Ratings (Normal/Emergency/Load Dump) (MVA)	Winter Ratings (Normal/Emergency/Load Dump) (MVA)
Existing Ratings	1245/1387/1586	1476/1601/1780
New Ratings	2076/2312/2643	2459/2668/2966

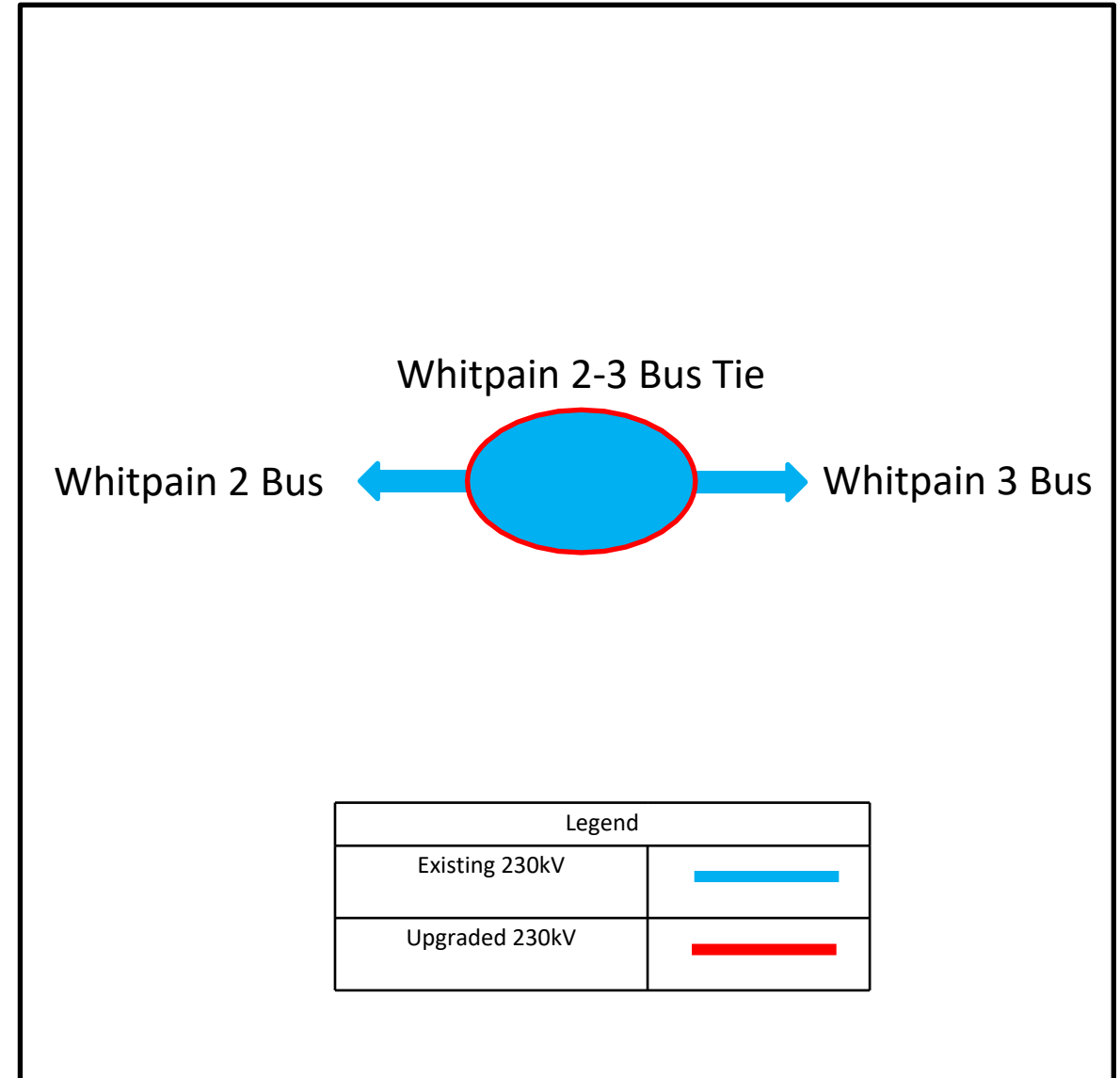
**Estimated Transmission Cost:** \$3.3 million

**Alternatives Considered:**

- No feasible alternatives available

**Projected In-Service:** 6/1/2030

**Project Status:** Engineering



**Need Number:** PE-2026-008

**Process Stage:** Solution Meeting 6/2/2026

**Previously Presented:** Need Meeting 4/7/2026

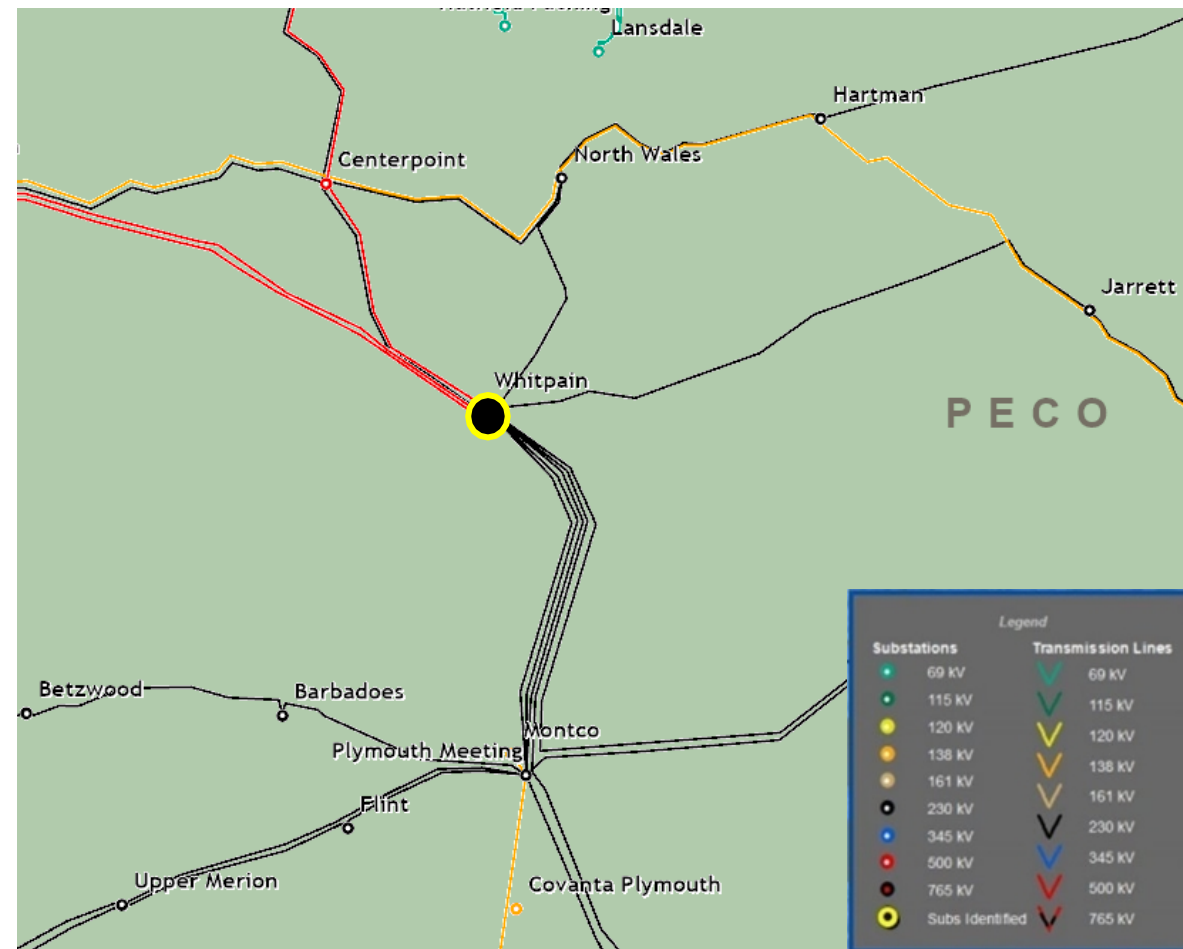
**Project Driver:** Equipment Material Condition, Performance, and Risk, Customer Service

**Specific Assumption Reference:**

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions.
- New customer interconnections or modification to an existing customer

**Problem Statement:**

- The Whitpain 500/230 kV T3 transformer was installed in 1971, is in a deteriorating condition, and is beyond its expected useful life.
- This facility has also been identified as a limitation in ensuring the ability to serve current and new customers.



**Need Number:** PE-2026-008

**Process Stage:** Solutions Meeting 6/2/2026

**Solution:**

- Replacement of the 500/230 kV Whitpain #3 transformer with a new transformer and replacement of 230kV CB 335.
- This will result in the facility rating change as indicated in the table below.

	Summer Ratings (Normal/Emergency/Load Dump) (MVA)	Winter Ratings (Normal/Emergency/Load Dump) (MVA)
Existing Ratings	869/1131/1167	1041/1131/1167
New Ratings	1245/1543/1693	1535/1760/1894

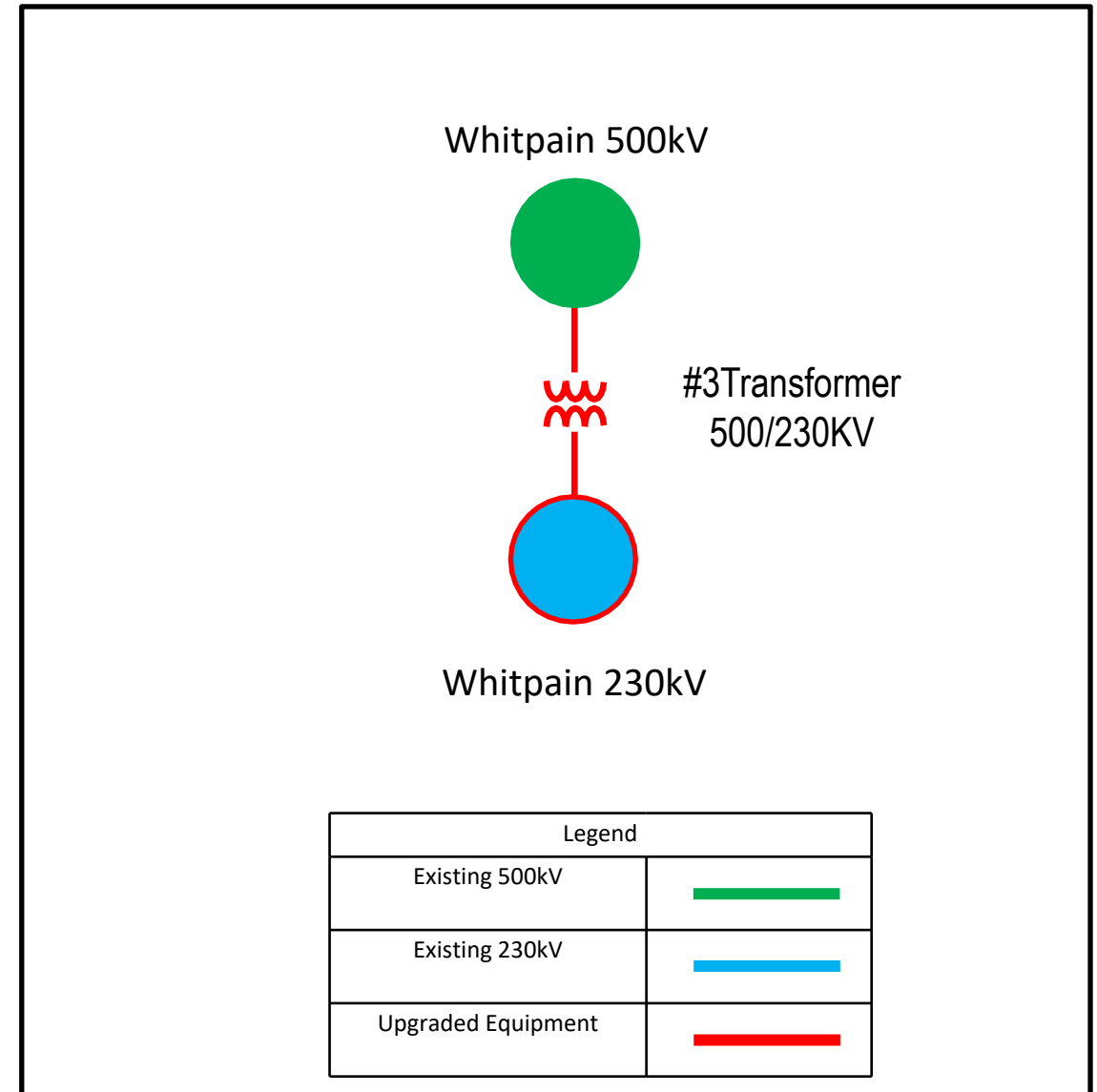
**Estimated Transmission Cost:** \$55.7 million

**Alternatives Considered:**

- No feasible alternatives available

**Projected In-Service:** 6/1/2030

**Project Status:** Engineering



**Need Number:** PE-2026-012

**Process Stage:** Solution Meeting 6/2/2026

**Previously Presented:** Need Meeting 5/8/2026

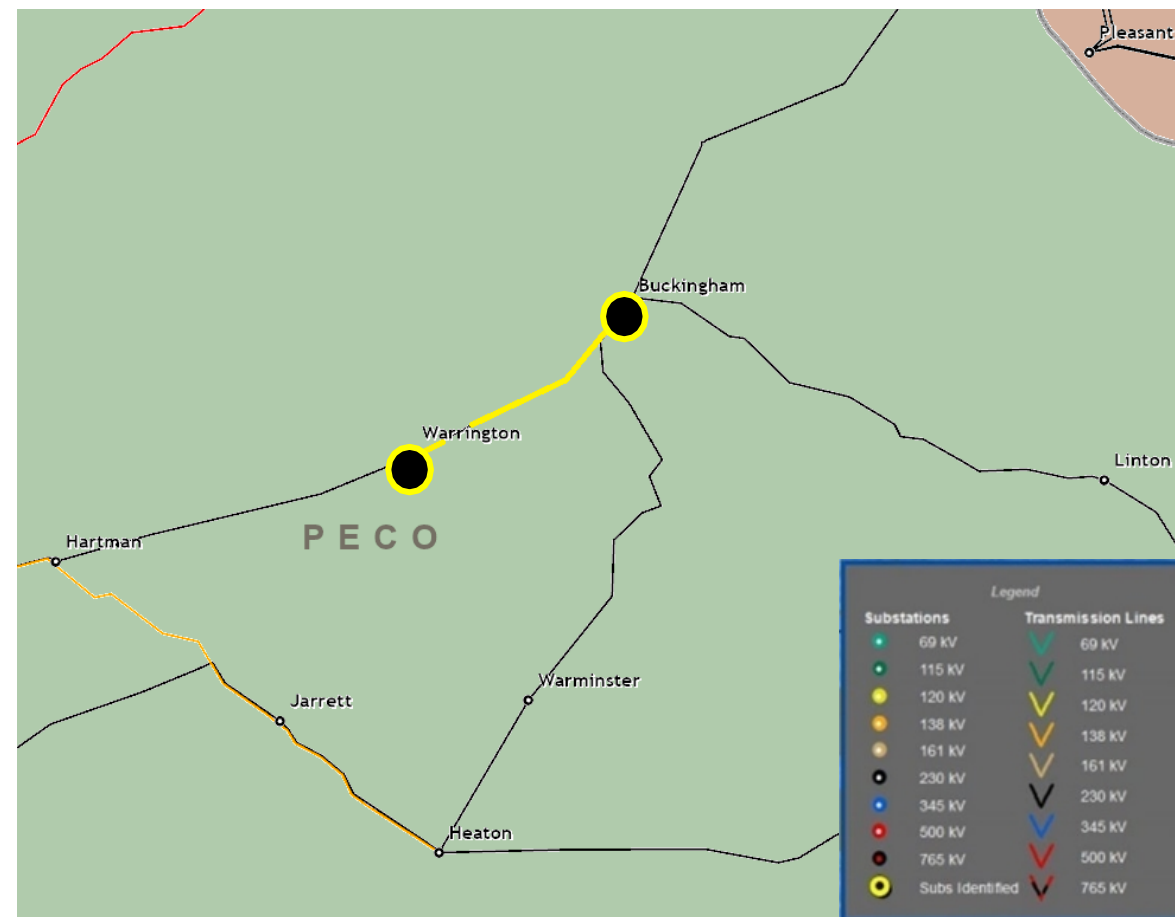
**Project Driver:** Equipment Material Condition, Performance, and Risk

**Specific Assumption Reference:**

- Programmatic review and/or replacement of breakers, relays, wood poles, etc.

**Problem Statement:**

- The 230 kV 220-19 Line between Buckingham and Warrington employs obsolete electromechanical relays that are being phased out of the system. It is becoming difficult to service existing electromechanical relays.



**Need Number:** PE-2025-012

**Process Stage:** Solutions Meeting 6/2/2026

**Solution:**

- At Buckingham and Warrington, replacement of 230kV line relays, bus CCVTs, and removal of line wave traps.
- Ratings on the 230kV 220-19 line will increase as shown in the table below.

	Summer Ratings (Normal/Emergency/Load Dump) (MVA)	Winter Ratings (Normal/Emergency/Load Dump) (MVA)
Existing Ratings	731/885/985	822/978/1036
New Ratings	731/885/985	822/978/ <b>1092</b>

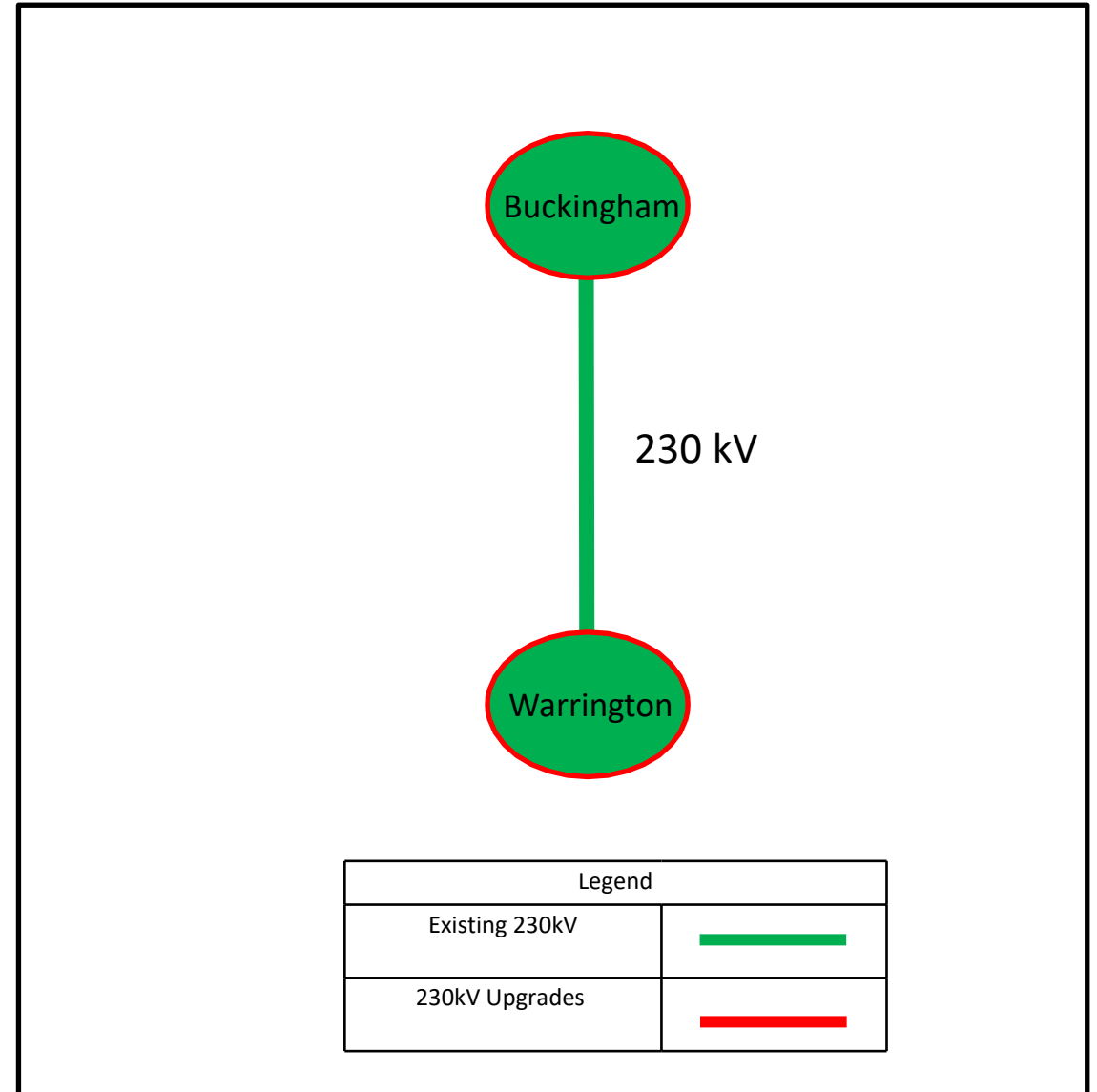
**Estimated Transmission Cost:** \$582k

**Alternatives Considered:**

- No feasible alternatives available

**Projected In-Service:** 10/10/2026

**Project Status:** Engineering



# Revision History

5/22/2026 – V1 – Original version posted to pjm.com