

# Sub-Regional RTEP Committee – Mid-Atlantic PPL Supplemental Projects

December 13,2023

# 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

# PPL Transmission Zone: Supplemental

**Need Number: PPL-2023-0013**

**Meeting Date: 12/13/2023**

**Process Stage: Solution**

**Need Slide Presented: 10/19/2023**

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

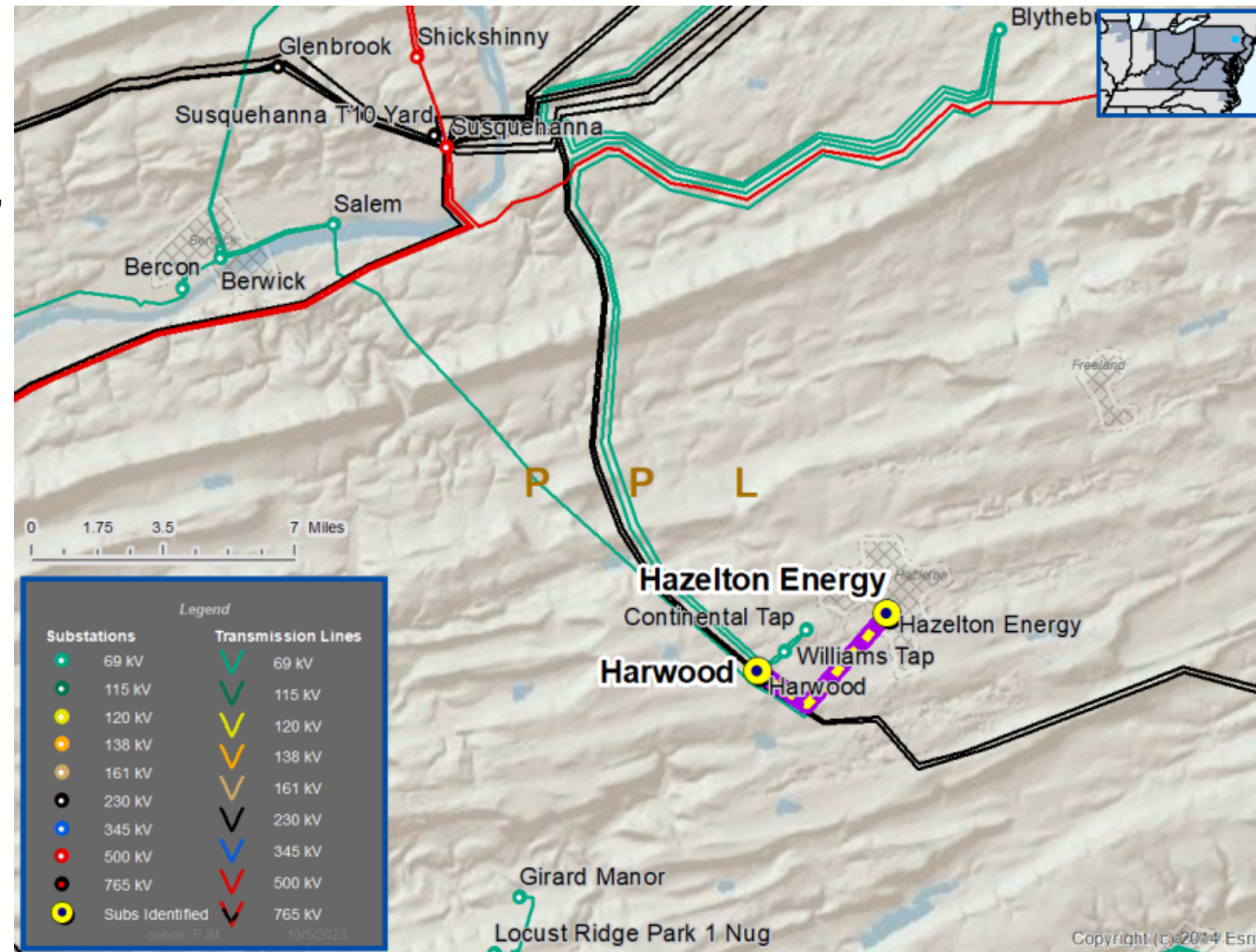
Operation Flexibility

**Problem Statement:**

- In a 2.6 mile stretch of the Harwood – East Hazleton 69 kV line, 20 of the 32 structures are weathering steel Corten lattice towers that were installed in 1970.
- A third-party inspection and analysis was conducted on a statistically significant sample of 192 out of the 1284 Corten structures on the PPL system. All the towers inspected exhibited section loss on numerous members and over 90% of the joints had visible pack-out.
- The report rated all the Corten towers inspected in poor or worse condition and concluded that the towers require near-term mitigation.
- Due to load growth in the area this section of line becomes the limiting factor for making transfers.

**Specific Assumption References:**

[PPL 2023 Annual Assumptions](#)



# PPL Transmission Zone: Supplemental

**Need Number: PPL-2023-0013**

**Proposed Solution:**

- Rebuild 2.6 miles of the existing Harwood – East Hazelton 1 & 2 69kV lines from Harwood Substation to the MCCI tap with 795 ACSR conductor.

**Alternatives Considered:**

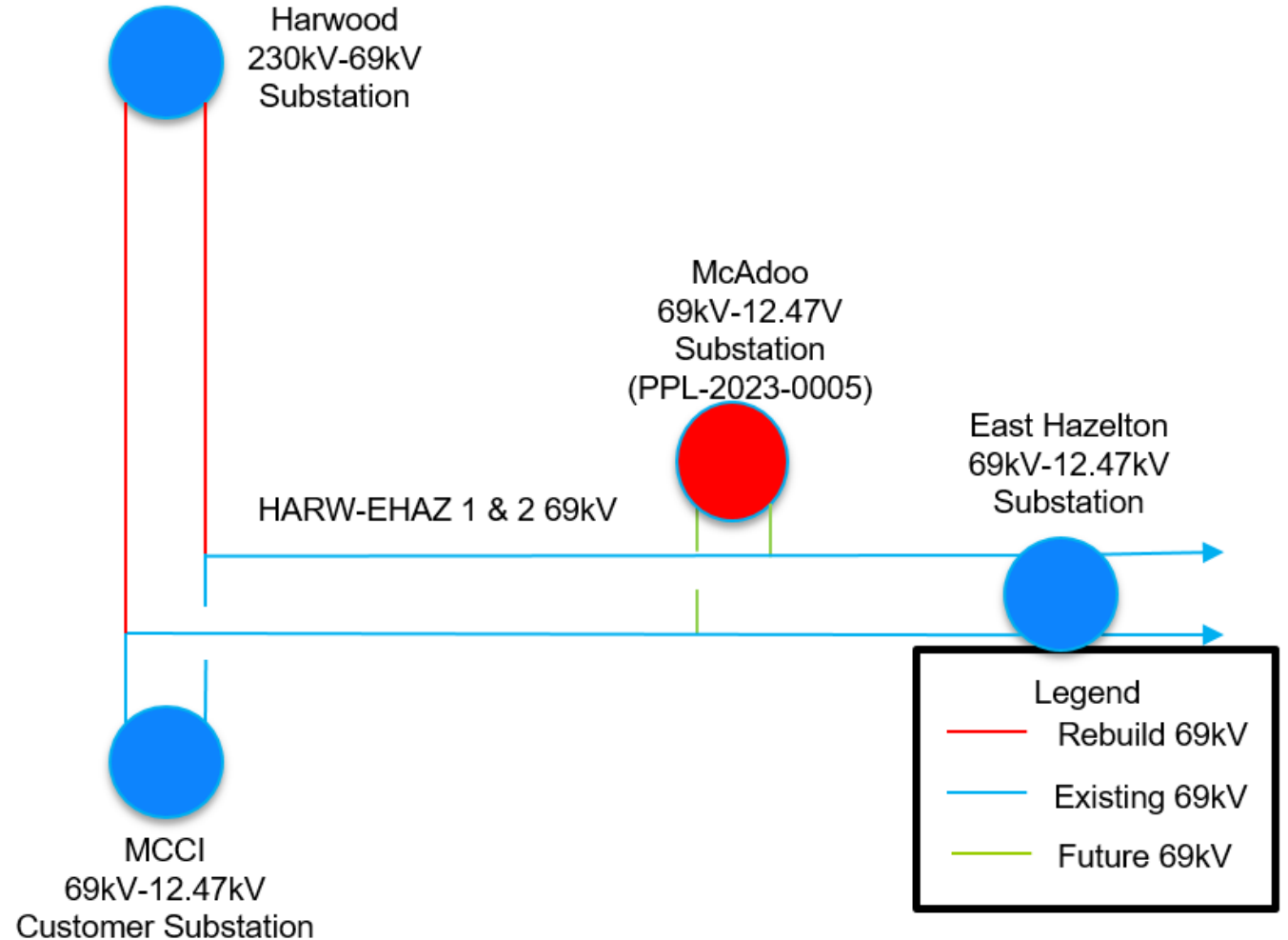
No feasible alternatives. Line cannot be retired as it serves customer and distribution load.

**Estimated Project Cost:** \$6M

**Projected In-Service:** 12/1/2026

**Project Status:** Conceptual

**Model:** 2027



# PPL Transmission Zone: Supplemental

**Need Number: PPL-2023-0015**

**Meeting Date: 12/13/2023**

**Process Stage: Solution**

**Need Slide Presented: 11/16/2023**

**Supplemental Project Driver: Customer Service**

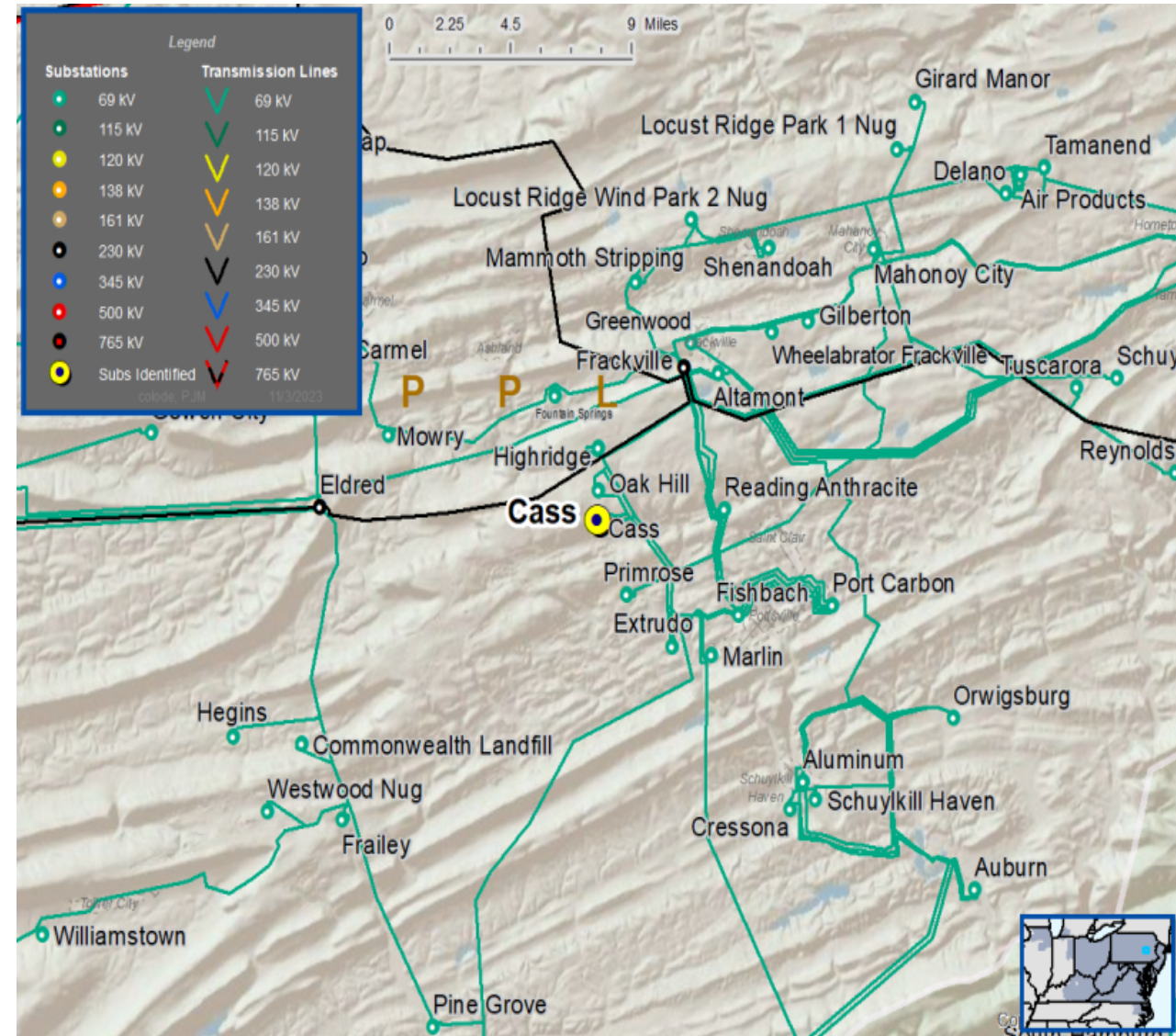
## Problem Statement:

PPL Distribution has submitted a request for modification of the 69kV feeds at Cass Substation to support replacement of existing transformers and rebuilding of the substation.

In Service Date: 6/30/2026

## Specific Assumption References:

[PPL 2023 Annual Assumptions](#)



# PPL Transmission Zone: Supplemental

**Need Number: PPL-2023-0015**

**Proposed Solution:**

Rebuild the 0.1-mile Cass tap from the FRAC-AUBU 69kV line. Remove 69kV tap from FRAC-FISH #3.

**Alternatives Considered:**

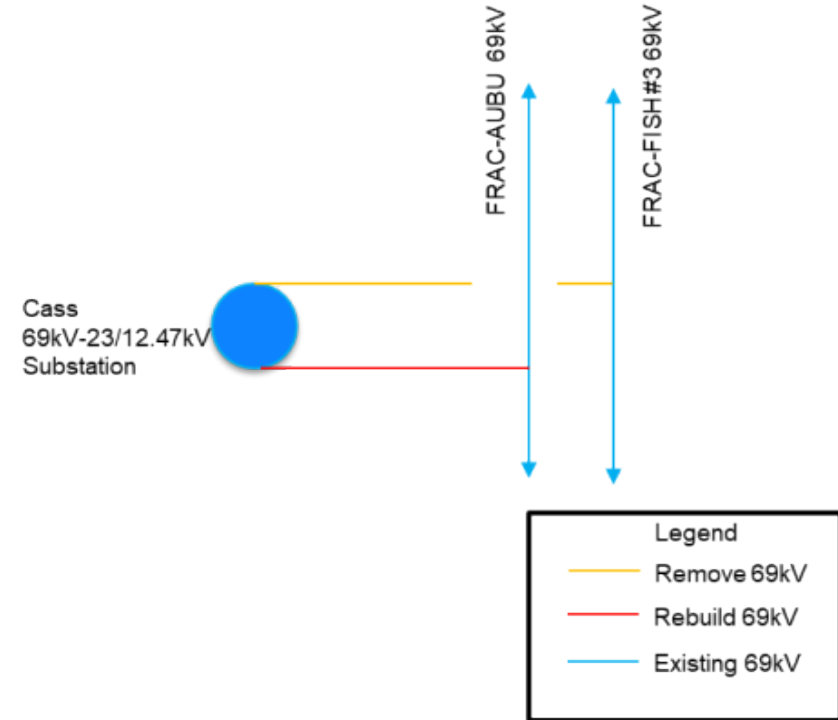
No feasible alternatives

**Estimated Project Cost: \$0.9M**

**Projected In-Service: 5/31/2026**

**Project Status: Conceptual**

**Model: 2026**



# 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

12/1/2023 – V1 – Original version posted to pjm.com

12/13/2023 – V2 – Updated slide 5 to correct the dates