

# Western SRRTEP Committee EKPC Supplemental Projects

June 17, 2019

# 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

# EKPC Transmission Zone M-3 Process Elizabethtown

**Need Number:** EKPC-2019-008

**Process Stage:** Solutions Meeting 6/17/2019

**Previously Presented:**

Needs Meeting 4/23/2019

**Supplemental Project Driver:**

Equipment Material Condition, Performance and Risk/Operational Flexibility and Efficiency

**Specific Assumptions Reference:**

EKPC Assumptions Presentation Slides 8 and 9

**Problem Statement:**

The EKPC-owned Kargle-LGE/KU Elizabethtown 69 kV tie-line was the most restrictive facility for scheduling of maintenance outages on the EKPC transmission system for the 2016-2017 period due to the conductor rating. Additionally, this facility restricts the ability of LGE/KU to schedule outages on the transmission system in the area. These restrictions are prevalent even during light load conditions, resulting in either inability to take maintenance outages or sectionalizing of the transmission system to shed load for subsequent outages in the area. Furthermore, this facility was constructed in 1958, and many of the wood poles are in marginal condition.



# EKPC Transmission Zone M-3 Process Elizabethtown

**Need Number:** EKPC-2019-008

**Process Stage:** Solutions Meeting 6/17/2019

**Proposed Solution:**

Rebuild Kargle-Elizabethtown KU 266.8 MCM ACSR double circuit line section using 954 MCM ACSR (1.4 miles). \$2.35M

**Ancillary Benefits:**

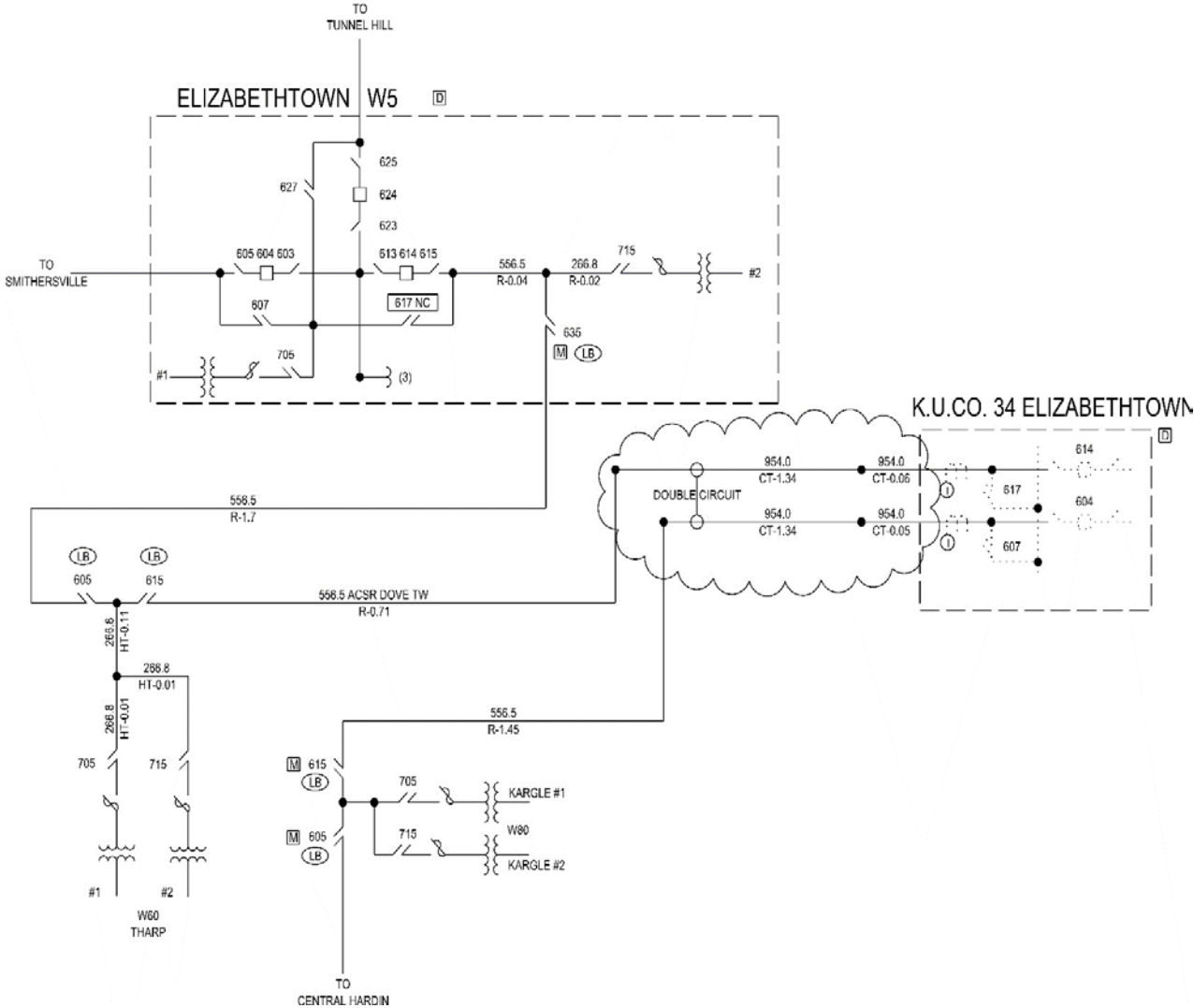
Adds EKPC operational flexibility in the area for upcoming planned 69 KV outages. Enables greater operational flexibility for LG&E/KU planned BES upgrades in the area starting spring 2020.

**Alternatives Considered:**

1. Construct Central Hardin-Elizabethtown W5 69 KV (6.0 miles), associated bus work and breaker addition at Elizabethtown W5. \$7.7M
2. Construct a new 138 KV transmission station tapping LG&E/KU Hardin Co-Rogersville 138 KV line. Construct 138 KV box and 138/69 KV transformer at Patriot Parkway and associated 138 KV tap line to Patriot Parkway (0.5 miles). \$12.6M
3. Construct 138 KV box and 138/69 KV transformer at Patriot Parkway and construct 138 KV Central Hardin-Patriot Parkway (8.5 miles). \$17.2M

**Projected In-Service:** 6/30/2020

**Project Status:** Engineering



# Appendix

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

6/17/2019 – V1 – Original version posted to pjm.com