

# SRRTEP Committee: Western EKPC Supplemental Projects

November 19, 2021

# 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 Dahl Road New Customer Load

**Need Number:** EKPC-2021-018

**Process Stage:** Solutions Meeting – November 19, 2021

**Previously Presented:**

Needs Meeting – August 16, 2021

**Supplemental Project Driver:**

Customer Service

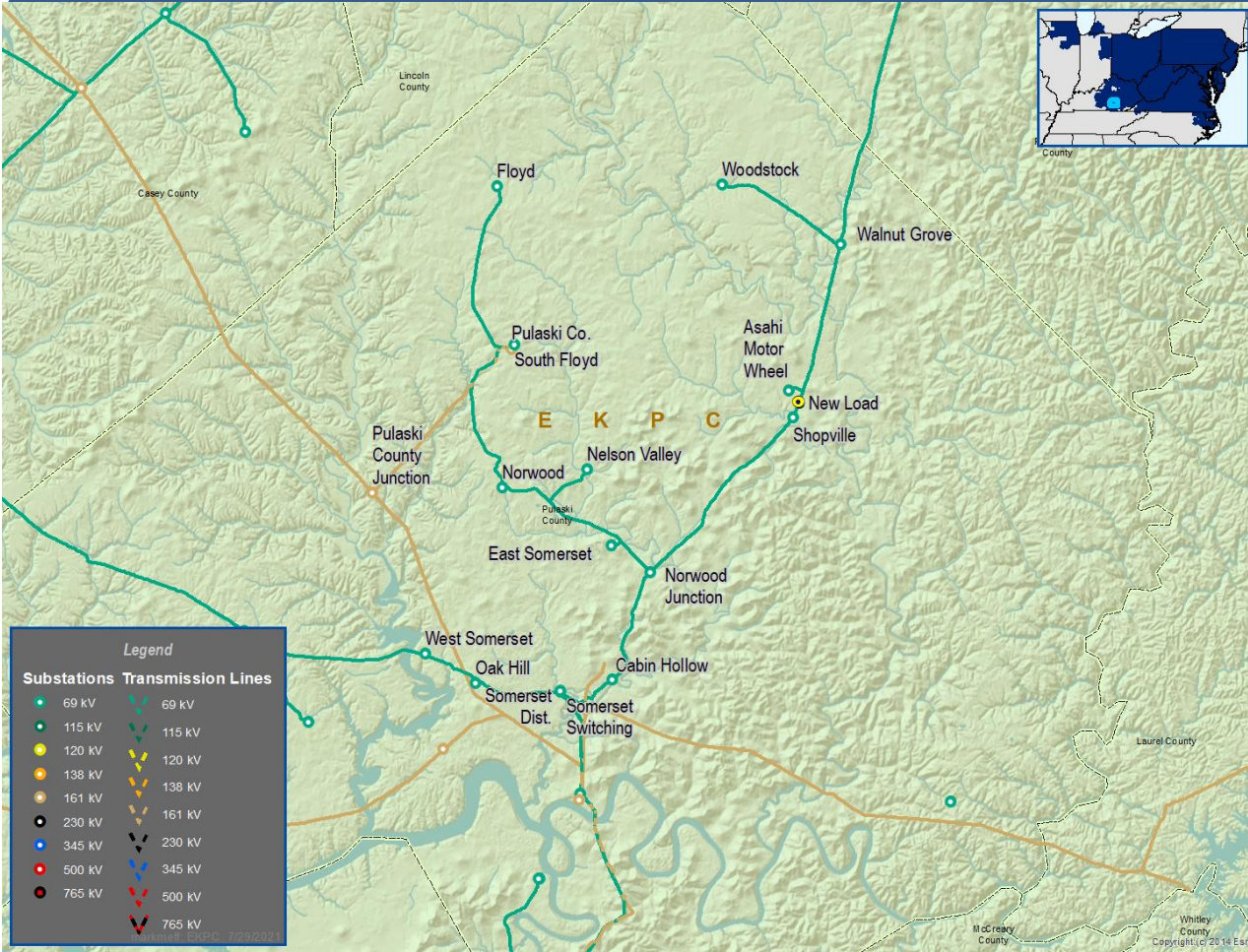
**Specific Assumption Reference:**

EKPC Assumptions Presentation Slide 14

**Problem Statement:**

A new customer has requested a new delivery point for a peak demand of 12.0 MW by 6/1/2022. The new delivery point is located in Pulaski Co, KY approximately half way between EKPC’s Shopville and Asahi Motor Wheel distribution substations. The existing distribution infrastructure is not capable of serving this request.

**Model:** N/A



# EKPC Transmission Zone M-3 Process Dahl Road New Customer Load

**Need Number:** EKPC-2021-018

**Process Stage:** Solutions Meeting November 19, 2021

**Proposed Solution:**

Construct new 69kv-12.5kv 12/16/20 MVA Dahl Road distribution substation and associated 0.10 mile tap line. Station will be served from the EKPC Shopville-Asahi Motor Wheel transmission line. Build new 7.0 mile 69 KV Floyd-Woodstock transmission line using 556 ACSR conductor. Construct a new four line exit 69 KV breaker station at Norwood Junction.

Distribution Cost: \$2.42M

Transmission Cost: \$12.7M

**Ancillary Benefits:**

- Provides voltage support to the area.
- Improves operational flexibility
- Minimize restoration time
- Improves system protection

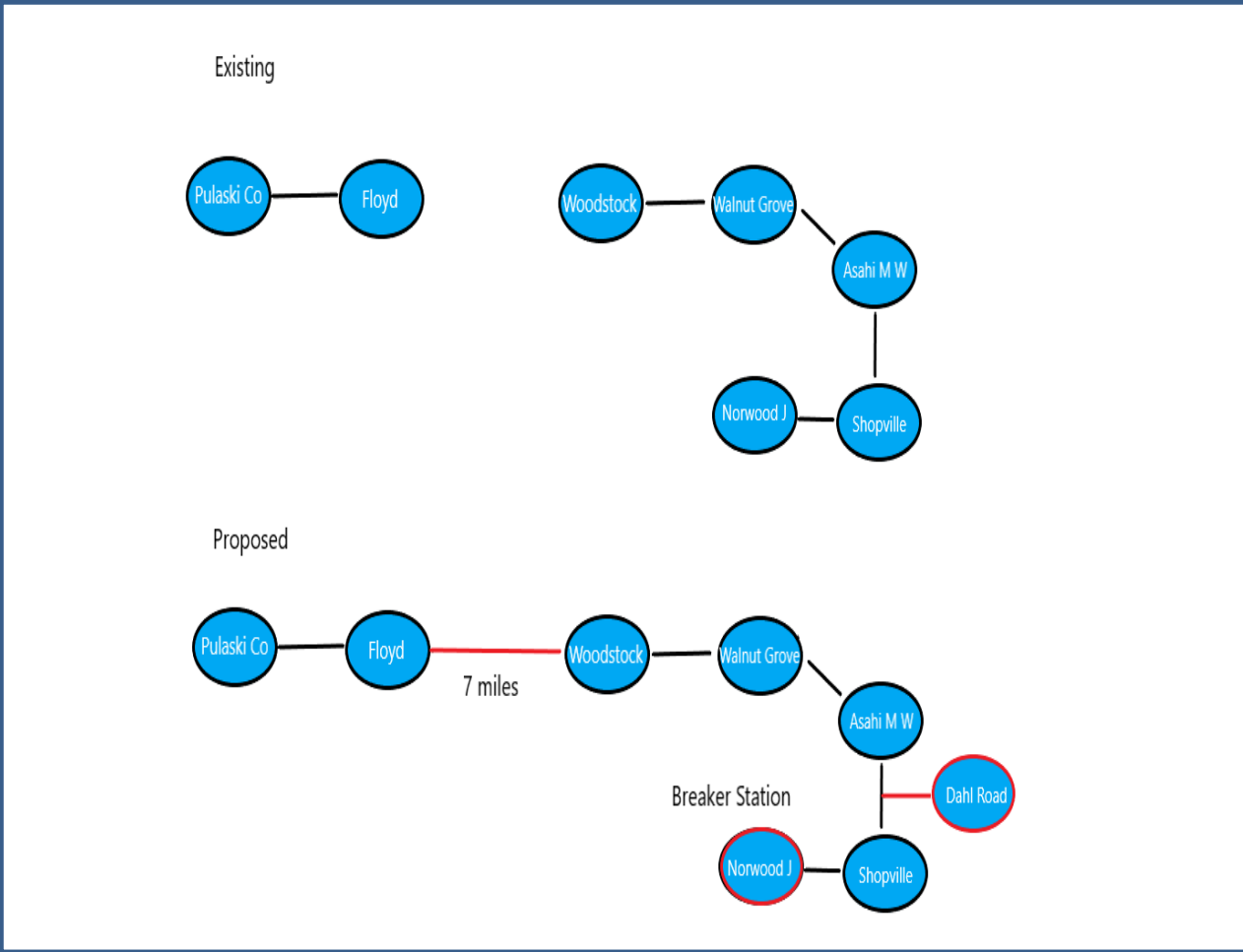
**Alternatives Considered:**

1. New 10.1 mile Pulaski Co–Dahl Road 69 KV line using 556 ACSR and new 69 KV Dahl Road switching station. \$14.1M
2. New 10.1 mile Pulaski Co–Dahl Road 161 KV line using 795 ACSR and new 161/69 KV Dahl Road station. \$16.9M
3. Addition of capacitor bank. (Adequate voltage support not achievable)

**Projected In-Service:** 6/1/2022 for Dahl Road distribution station  
12/1/2023 for new transmission line and breaker station.

**Project Status:** Engineering

**Model:** N/A



# 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

11/08/2021 – V1 – Original version posted to pjm.com