

# Submission of Supplemental Projects for Inclusion in the Local Plan

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

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

**Process Stage:** Submission of Supplemental Project for inclusion in the Local Plan – May 12, 2022

**Previously Presented:**

Needs Meeting – 8/16/2021

Solutions Meeting 11/19/2021

**Supplemental Project Driver:**

Customer Service

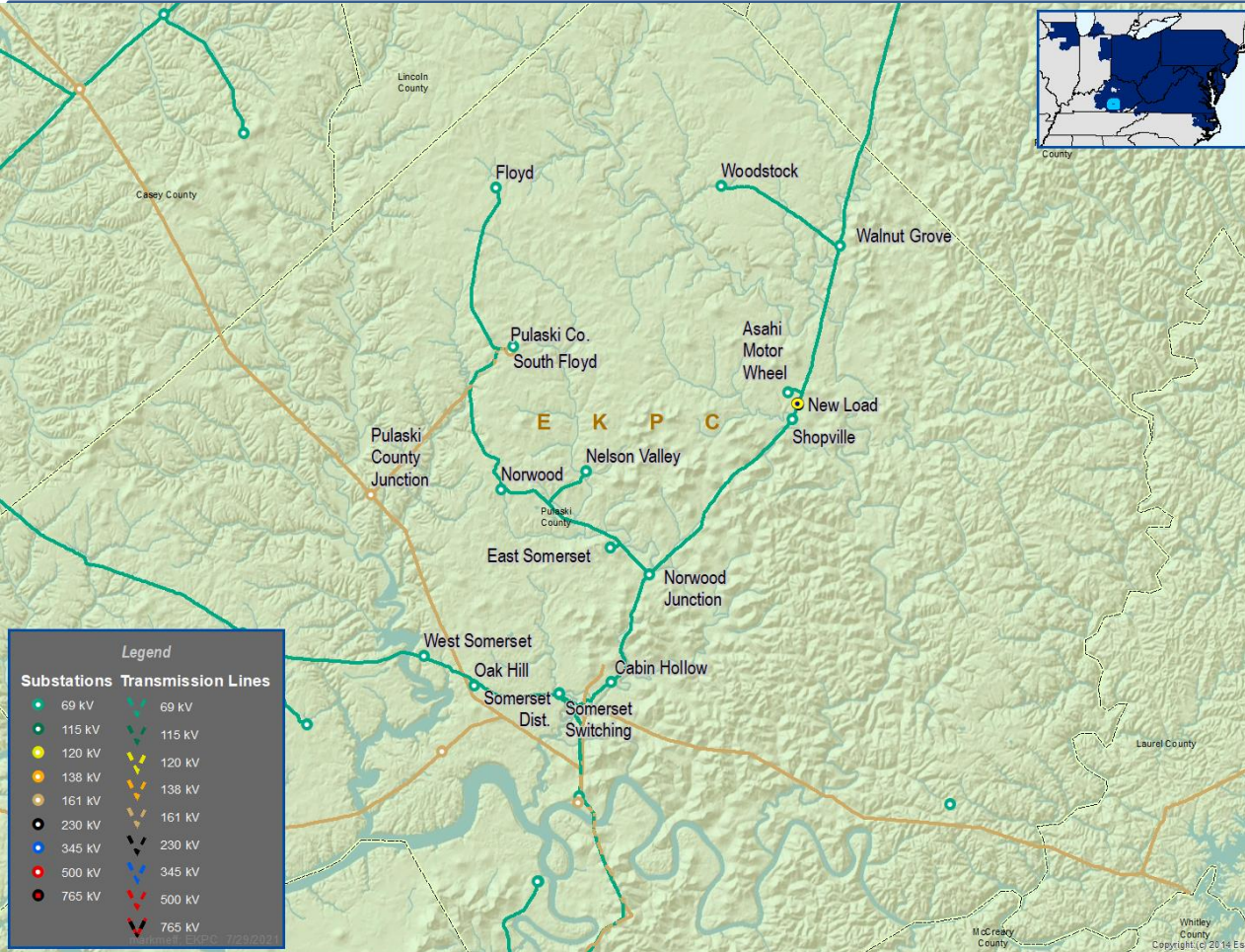
**Specific Assumption Reference:**

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:** Submission of Supplemental Project for inclusion in the Local Plan – May 12, 2022

**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:**

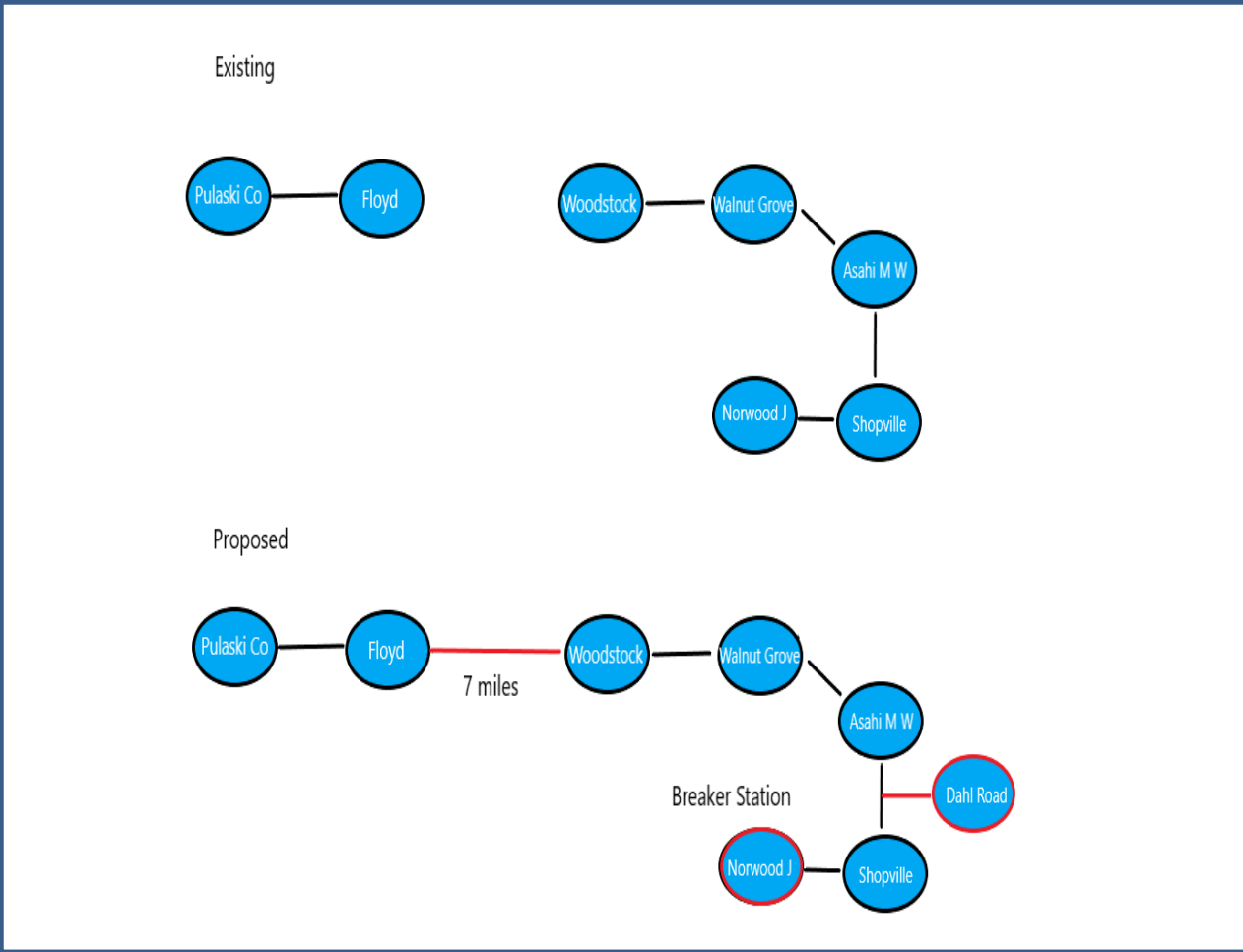
1. New 10.1 mile Pulaski Co–Dahl Road 69 KV line using 556 ACSR and new 69 KV Dahl Road switching station. \$14.1M
2. New 10.1 mile Pulaski Co–Dahl Road 161 KV line using 795 ACSR and new 161/69 KV Dahl Road station. \$16.9M
3. Addition of capacitor bank. (Adequate voltage support not achievable)

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

**Project Status:** Engineering

**Supplemental Project ID:** s2670

**Model:** N/A



# Revision History

5/12/2022 – V1 – Added s2670