# Reliability Analysis Update

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Sub Regional RTEP Committee - PJM West

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# First Review

## Baseline Reliability Projects

**Process Stage:** First Review

**Criteria:** EKPC 715 Criteria

**Assumption Reference:** EKPC Assumptions Presentation Slide 3-10

**Model Used for Analysis:** EKPC's internal models representing 2024/25 winter peak conditions that were used for EKPC's annual system screening analysis for 2021 planning cycle. Includes Cooper Units 1 and 2 off with replacement generation imported from south of EKPC system.

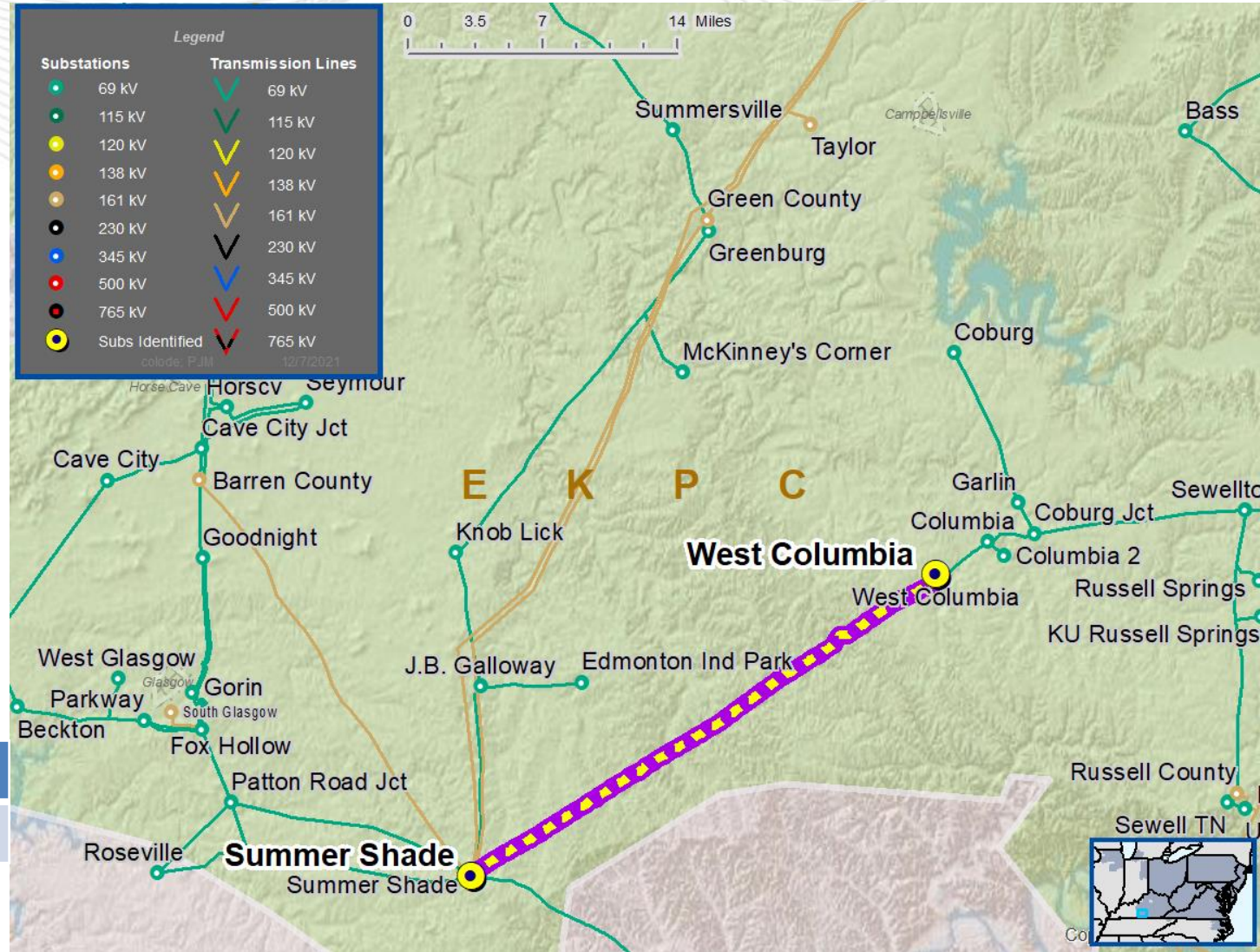**Proposal Window Exclusion:** Below 200 kV Exclusion

**Problem Statement:**

FG: EKPC-T1

The Summer Shade-West Columbia 69 kV line section is overloaded for a N-1 outage.

**Existing Facility Rating:**

| Branch | SN/SE/WN/WE (MVA) |
|---|---|
| 2SUMM SHADE-2W COLUMBI T 69 kV | 57/63/82/86 |

**Proposed Solution:**

Rebuild the Summer Shade-West Columbia 69 kV 0.19 miles of 266 conductor double circuit to 556 conductor.

**Total Estimated Cost:** $0.191 M

**Preliminary Facility Rating:**

| Branch | SN/SE/WN/WE (MVA) |
|--------|-------------------|
| 2SUMM SHADE-2W COLUMBI T 69 kV | 73/76/86/89 |

**Alternatives:**

1. Increase the MOT of the 0.19 mile 266 double circuit line section out of Summer Shade from 212°F to 266°F
2. Build a new 13 miles 69 kV line from Coburg to Green County using 556

**Ancillary Benefits:**

Minimizes maintenance costs and increases operational flexibility over a MOT increase.

**Required IS date:** 12/31/2025

**Projected IS date:** 12/31/2025

# Recommended Solution

## Baseline Reliability Projects

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**SRRTEP-W Reliability Analysis Update**

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- V1 – 2/15/2022 – Original slides posted