

Reliability Analysis Update

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Sub Regional RTEP Committee – PJM West

May16, 2025

Scope Change Baseline Reliability Projects

B3361: Originally presented in 10/15/2021 and 11/19/2021 W-SRRTEP

Original Scope /Updated Scope (Redline):

Rebuild Prestonsburg - Thelma 46kV circuit **connecting though Kenwood station**, approximately **44 12.7** miles. Retire Jenny Wiley SS **and Van Lear SS**. (B3361)

Transmission Estimated Cost: ~~\$33.01M~~ \$63.6M

Reason for the scope change: The project is using new right of way that is closer to Kenwood station and will provide looped Transmission service to customers served from Kenwood station.

Reason for the cost increase: Labor and material costs are increasing for Transmission line construction. The difficult terrain in eastern Kentucky requires approximately 2 miles of access road for every 1 mile of line being built.

Preliminary Facility Rating:

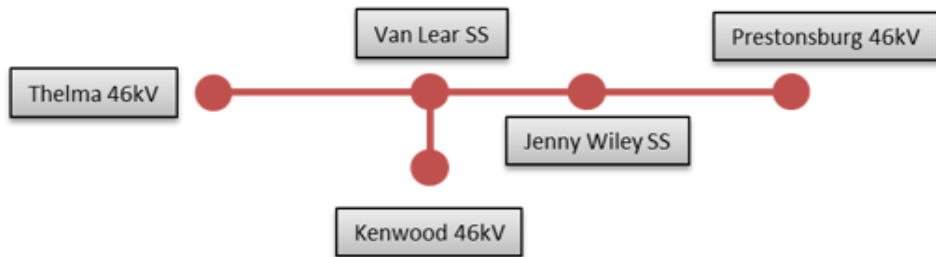
Branch	SN/SE/WN/WE (MVA)
05THELMA – 05KENWOOD 46KV	68/95/86/106
05PRESTNSB– 05KENWOOD 46KV	68/95/86/106

Ancillary Benefits: The proposed solution also completely addresses the identified needs in AEP-2018-AP022 **and AEP-2020-AP029**.

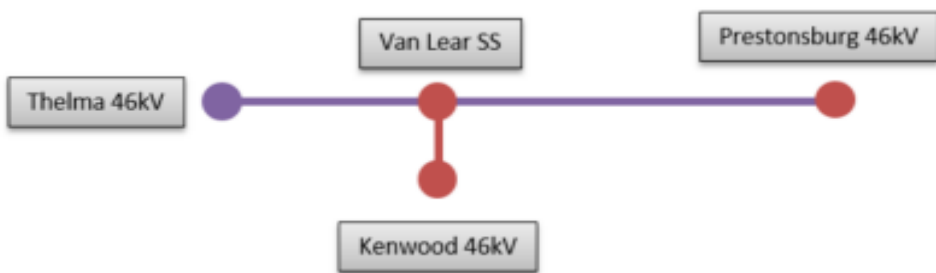
Required IS date: 12/1/2026

Projected IS date: ~~10/1/2025~~ 12/16/2027

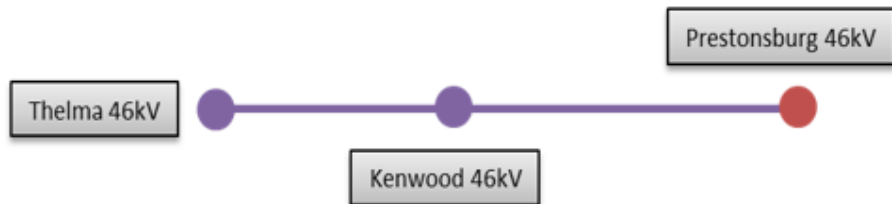
Project System Electrical Diagram (existing)



Project System Electrical Diagram (original Scope)



Project System Electrical Diagram (New Scope)



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Reliability Analysis Update

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Version No.	Date	Description
1	May 13, 2025	<ul style="list-style-type: none">Original slides posted

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