

Western Sub Regional RTEP: AEP Supplemental Projects

May 16, 2025

Changes to the Existing Supplemental Projects

AEP Transmission Zone: Supplemental S2470.1-.7 Cancellation

S2470.1-.7: In 2021 AEP local plan to address Need AEP-2020-AP29. The Need was presented on 4/20/2020 and the solution was Presented on 3/19/2021

Reason for cancellation of the Kenwood Loop solution: The Need AEP-2020-AP29 will be addressed by the updated scope of b3361.

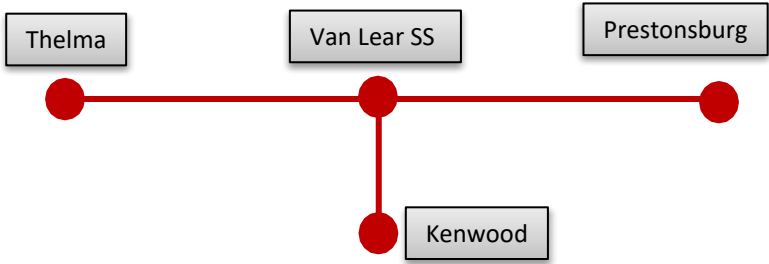
S2470 Project Description:

- A green field line is to be constructed (Kenwood 69kV Extension) and to be operated at 46kV. The new extension will provide looped service into Kenwood substation. It will be approximately 2.25 miles of single circuit construction through mountainous terrain in Floyd and Johnson Counties in Kentucky. The extension will tap the existing Prestonsburg-Thelma 46kV Line around structure K346-50. (SN:53 MVA , SE:61 MVA, WN:67 MVA, WE:73 MVA) **Estimated Cost: \$5.8 M (s2470.1)**
- Rebuild the existing ~1.77 mi Kenwood Tap line from Kenwood to Van Lear Tap Structure on the existing center line. (SN:53 MVA , SE:61 MVA, WN:67 MVA, WE:73 MVA)
Estimated Cost: \$4.9 M (s2470.2)
- Provide splicing for 2.25 miles of 96ct OPGW on the Kenwood 69kV Extension Line and 1.77 mi Kenwood TAP line. This extension spans from Kenwood Station to the Prestonsburg-Thelma 46kV line. **Estimated Cost: \$0.1 M (s2470.3)**
- At Kenwood substation, Extend the walk bus and add second 46KV line to set up Kenwood station as a looped station with MOABS protecting each exit. Add new H-Frame dead end with MOAB and single phase CCVT. Add MOAB and single phase CCVT to existing line. Relocate 3 phase CCVT's from cap bank AA to 46KV Bus. Add 3-bay transclosure, and separate battery enclosure. Replace Battery and Charger. **Estimated Cost: \$0 M (Distribution costs only) (s2470.4)**
- Retire Van Lear SS. **Estimated Cost: \$0.1 M (s2470.5)**
- Remote end work at Prestonsburg substation. **Estimated Cost: \$0 M (Distribution costs only) (s2470.6)**
- Retire the ~1.5 mi 46kV line section from str. 52 to Van Lear SS. This line section is part of the Prestonsburg – Thelma 46kV line need (AEP-2018-022). **Estimated Cost: \$1.2 M (s2470.7)**

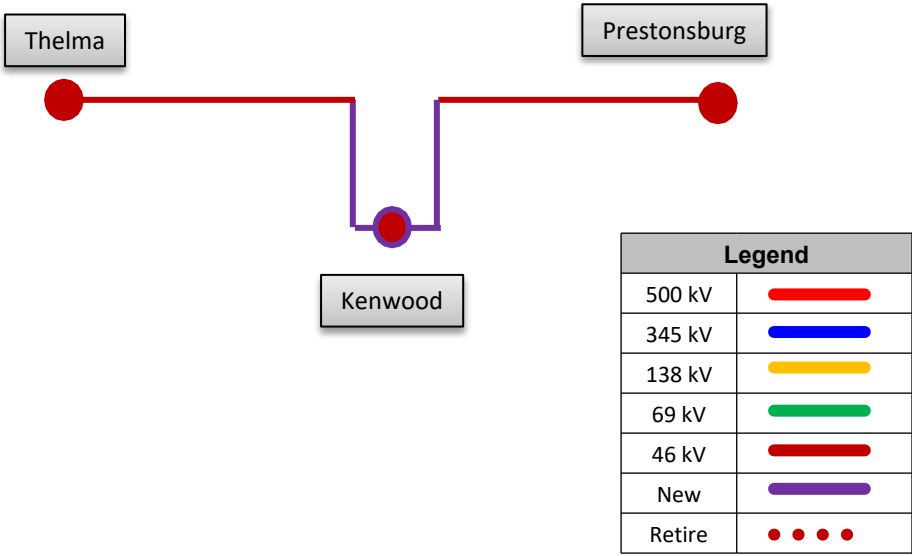
Estimated Cost: \$12.1 M

Projected In-Service: 11/31/2023

Existing:



Proposed:



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

05/06/2025– V1 – Original version posted to pjm.com