



Reliability Analysis Update PJM West

Jeffrey Goldberg, Brian Hau
Sub Regional RTEP Committee – PJM West

January 16, 2026



2025 RTEP Recommended Read Baseline Reliability Projects



AEP Transmission Zone: Baseline Huntington Court 69kV Breaker CS-XT4 Replacement

Process Stage: Recommended Solution

Criteria: Short Circuit

Assumption Reference: 2026 RTEP assumptions

Model Used for Analysis: 2026 Series RTEP 2030 Short Circuit base case + selected solution

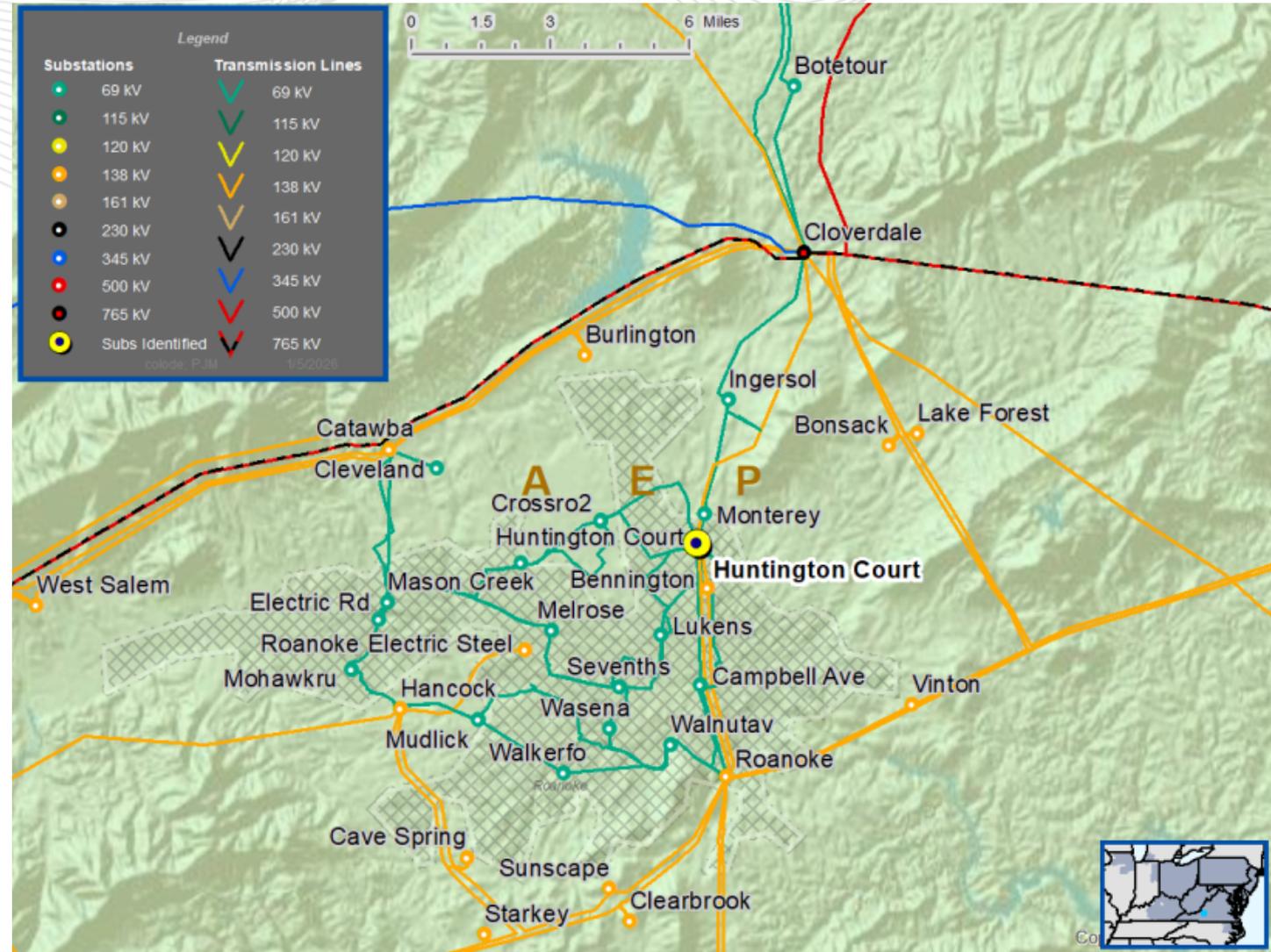
Proposal Window Exclusion: Below 200 kV

Problem Statement:

In the 2030 RTEP Short Circuit base case that includes the AEP selected solution, **B3975.1** (Install a new 138/69 kV transformer at Catawba station), which was presented in 11/14/2025 SRRTEP-W, one 69KV breaker at Huntington Court was identified to be over duty.

Recommended Solution:

Replace the one 69KV breaker (CS-XT4) at Huntington Court with a 40kA breaker. (**B3975.2**)





AEP Transmission Zone: Baseline Huntington Court 69kV Breaker CS-XT4 Replacement

Existing Facility Rating:

Circuit Breaker	Interrupting Rating (KA)
Huntington Court 69KV breaker: CS-XT4	25

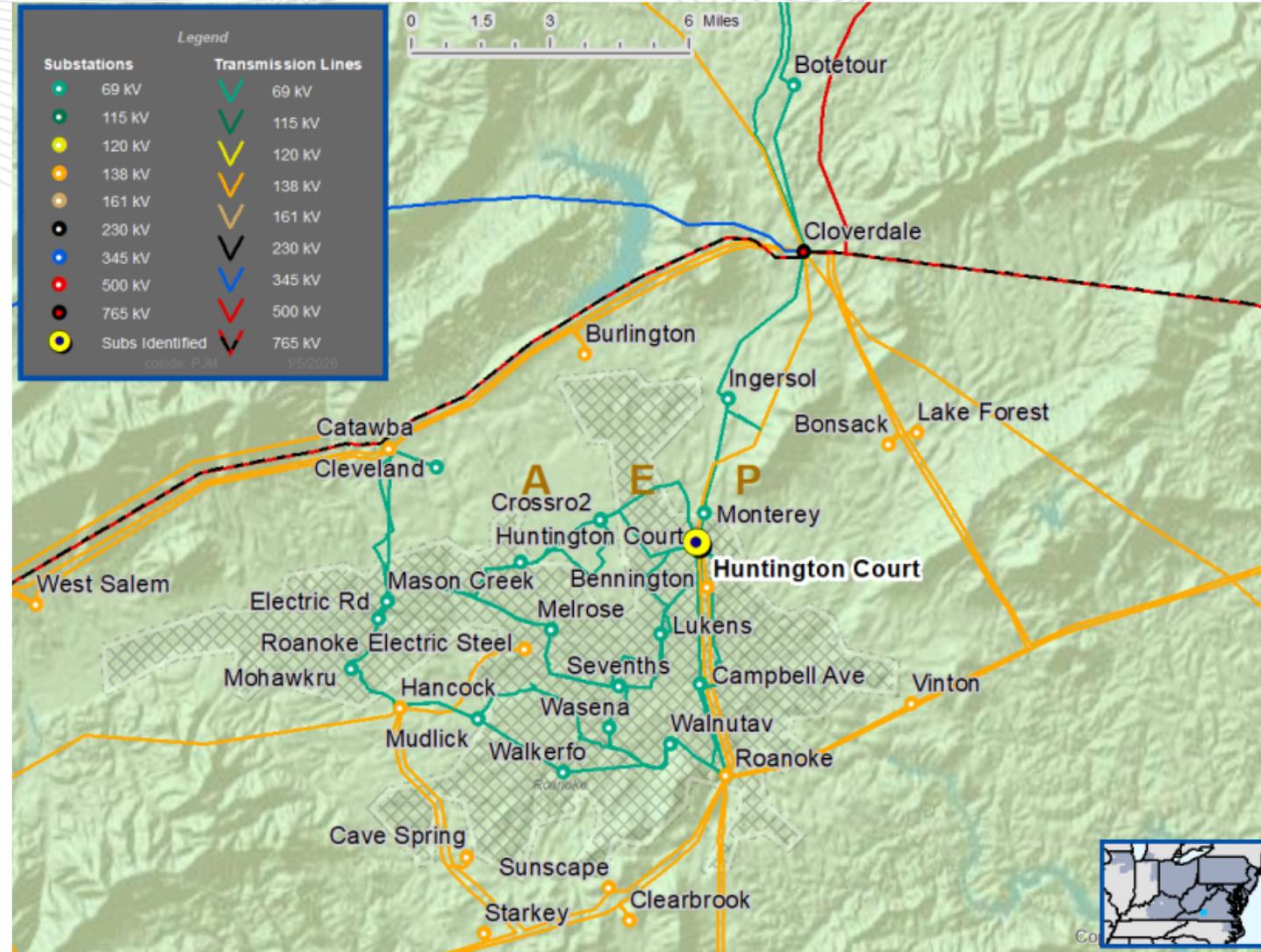
Preliminary Facility Rating:

Circuit Breaker	Interrupting Rating (KA)
Huntington Court 69KV breaker: CS-XT4	40

Estimated Cost: \$1.0 M

Required IS Date: 6/1/2030

Projected IS Date: 6/1/2030



Facilitator:
Wenzheng Qiu Wenzheng.Qiu@pjm.com

Secretary:
Katherine Graham Katherine.Graham@pjm.com

SME/Presenter:
Jeffrey Goldberg; Jeffrey.Goldberg@pjm.com
Brian Hau; Brian.Hau@pjm.com

Reliability Analysis Update



Member Hotline

(610) 666 – 8980

(866) 400 – 8980

custsvc@pjm.com

Version No.	Date	Description
1	Jan. 13, 2026	<ul style="list-style-type: none"><li data-bbox="970 376 1421 425">• Original slides posted

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