

Reliability Analysis Update

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Sub Regional RTEP Committee - PJM South

November 13, 2025

First Review Baseline Reliability Projects

Process Stage: First Review

Criteria: Light Load Generation Deliverability

Assumption Reference: 2030 RTEP assumption

Model Used for Analysis: 2030 RTEP Light Load Case

Proposal Window Exclusion: Below 200 kV Exclusion

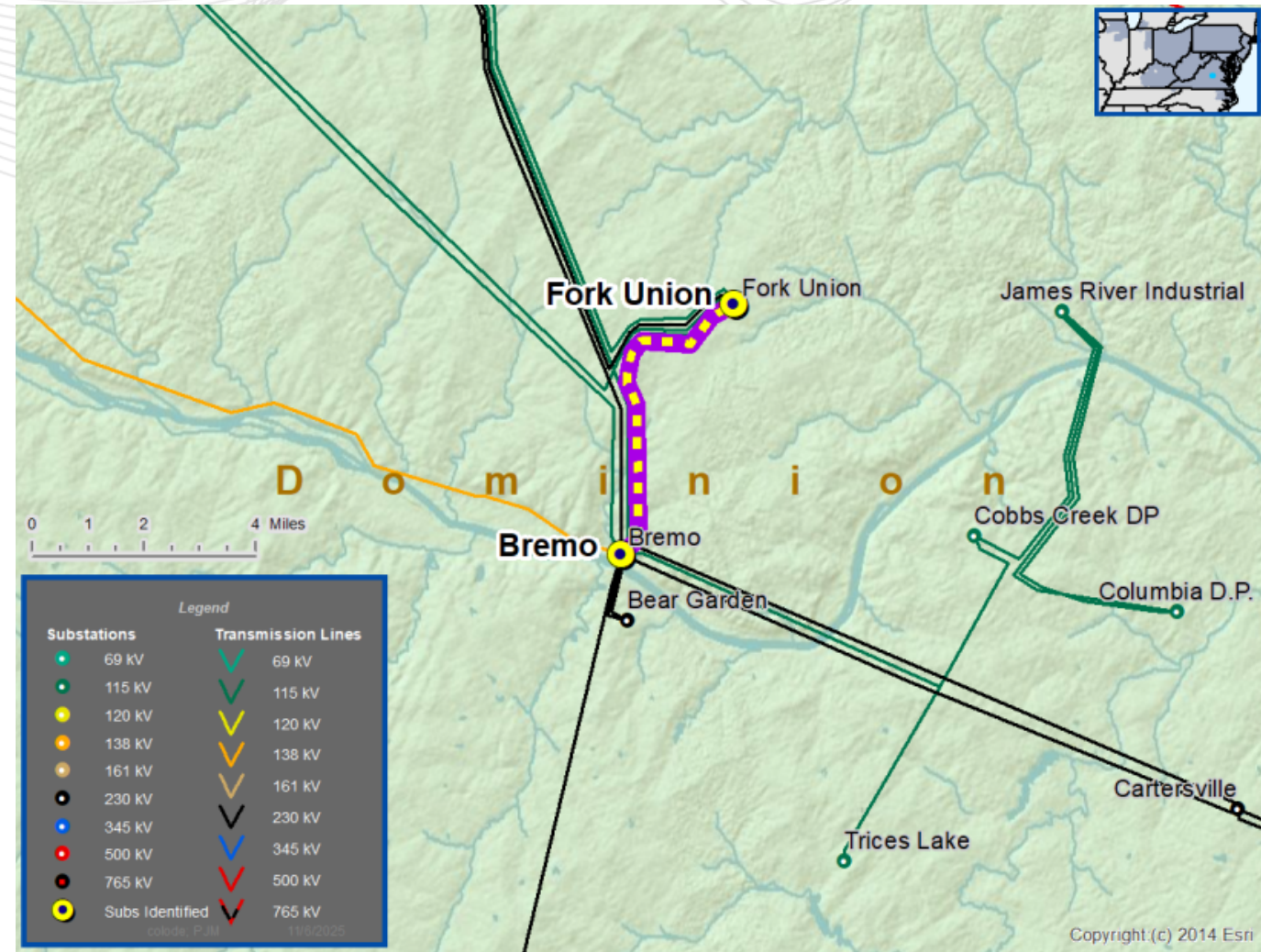
Problem Statement: The line #5 Bremo – Fork Union 115kV line is overloaded for a single contingency.

Violations were posted as part of the 2025 Window 1:

2025-W1-GD-LL26

Existing Facility Rating:

Branch	SN/SE/WN/WE (MVA)
Bremo – Fork Union 115 kV	302/335/384/409





DOM Transmission Zone: Baseline Bremo to Fork Union 115kV

Proposed Solution:

- Wreck and rebuild 115kV line #5 from Bremo to Fork Union using a larger conductor with minimum summer emergency rating of 393MVA.
- Upgrade all relevant substation equipment at Bremo and Fork Union substations that are below 2000A to accommodate the upgraded line #5.

Estimated Cost: \$7M

Preliminary Facility Rating:

Branch	SN/SE/WN/WE (MVA)
Bremo – Fork Union 115 kV	393/393/412/412

Alternatives:

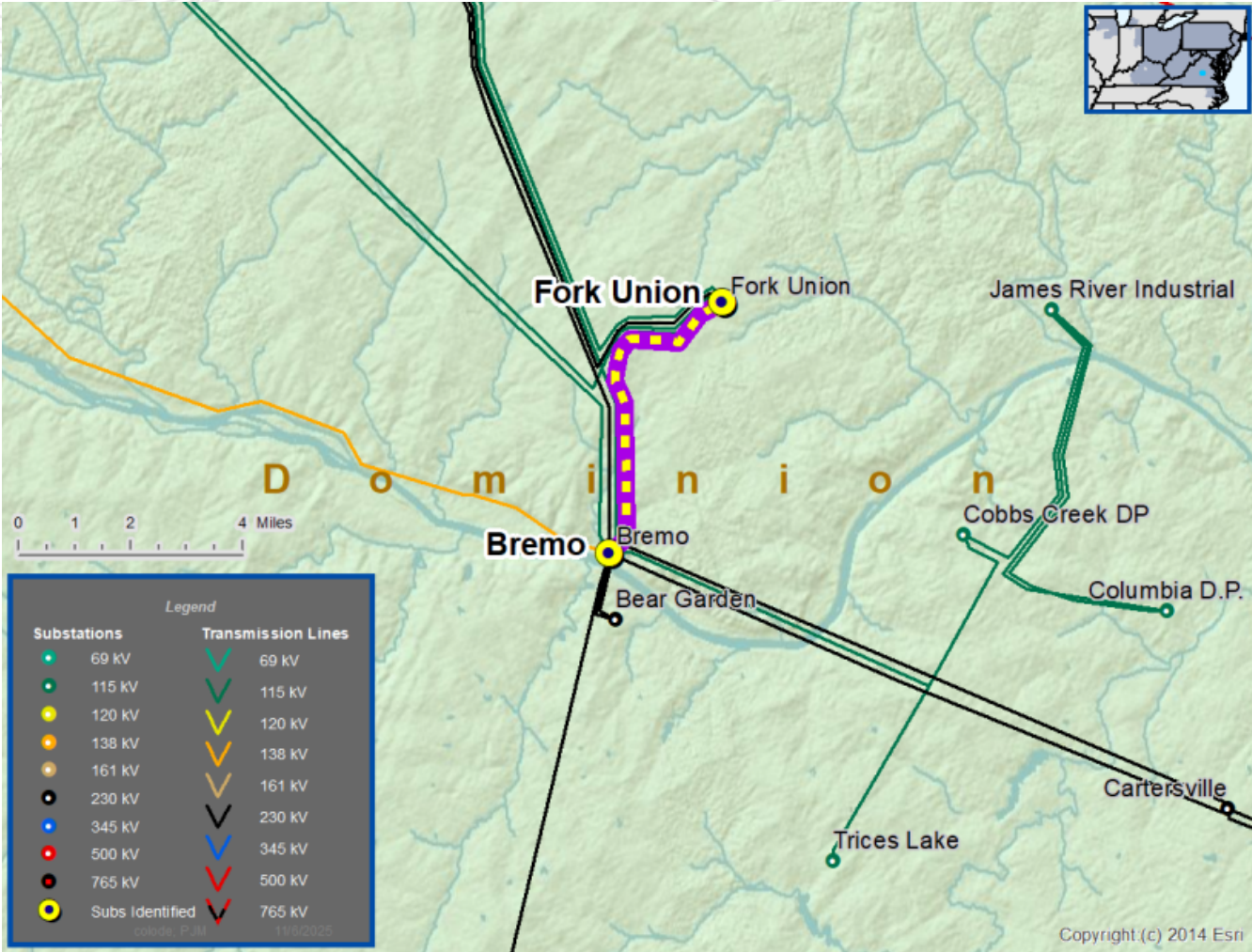
- N/A

Required IS Date:

- 6/1/2030

Projected IS Date:

- 6/1/2030



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Reliability Analysis Update

A green speech bubble containing a white question mark, positioned above a blue speech bubble with three horizontal lines, indicating a question or contact point.

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Version No.	Date	Description
1	November 7, 2024	Original slides posted