



Reliability Analysis Update

PJM – Mid-Atlantic

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Subregional RTEP Committee – PJM MA

February 12, 2026

Cancellations



Penelec Transmission Zone: Baseline Warren 115kV Breaker “NO.1 XFMR” Replacement

Cancellation of b3988.1

Previously Presented: 11/13/2025

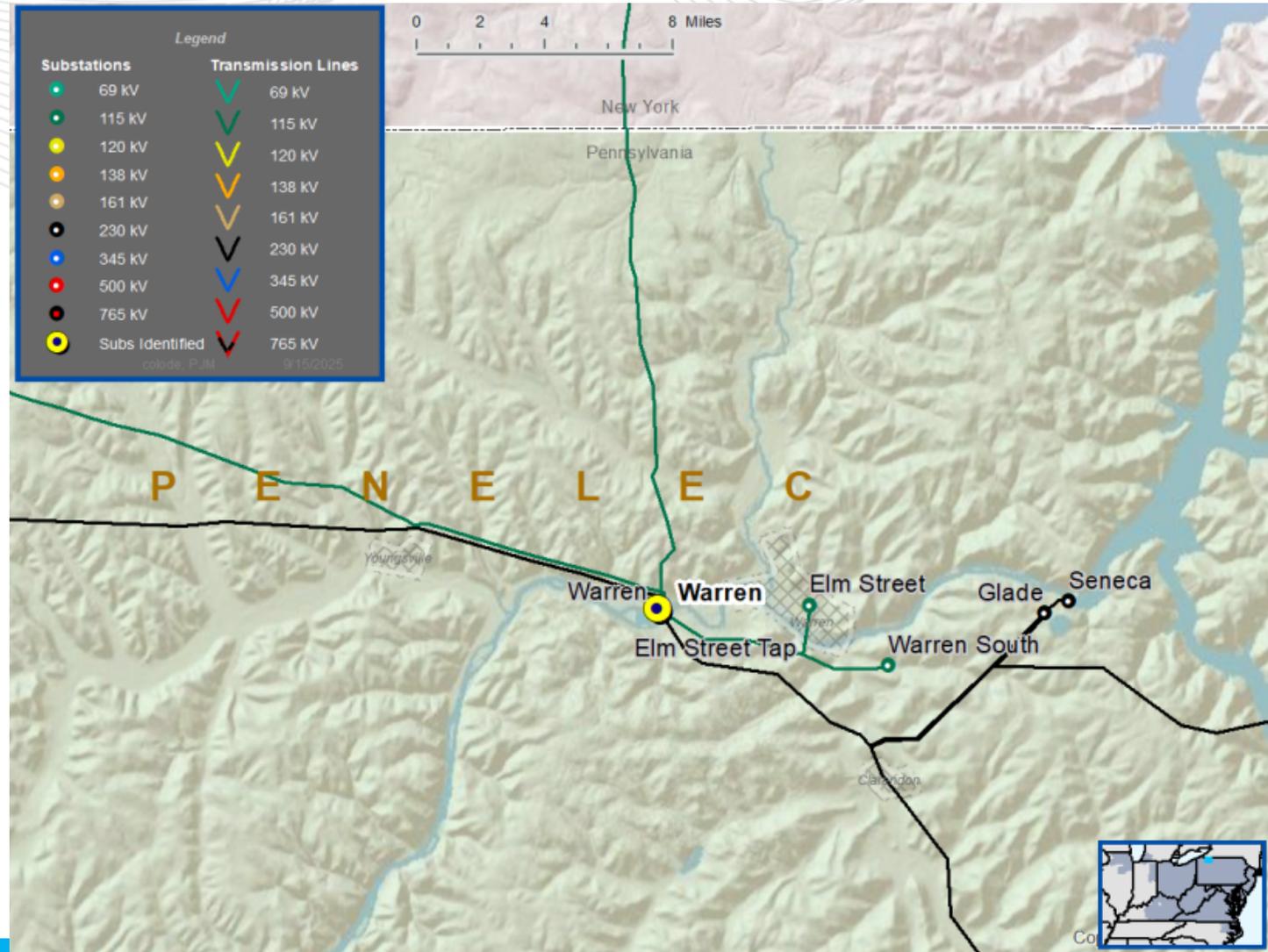
Original Proposed Scope:

Replace the over dutied Warren 115 kV circuit breakers “NO.1 XFMR” with a 40 kA circuit breaker.

Reason for Cancellation:

Breakers is a Distribution asset, not Transmission.
Breaker is not controlled by PJM

Cost Estimate: \$0.957M



Cost Change

Upgrade ID: b3749

Previous TEAC date: 11/17/2022

Criteria: Summer Generation Deliverability

Assumption Reference: 2027 RTEP assumption

Model Used for Analysis: 2027 RTEP Summer case

Proposal Window Exclusion: Below 200 kV Exclusion

Problem Statement: The New Church – Piney 138 kV circuit overloaded for line fault stuck breaker contingency

Violations were posted as part of the 2022 Window 1: FG# GD-S626

Existing Facility Rating: 172SN/226SE, 198WN/255WE MVA

Proposed Facility Rating: 392SN/485SE, 452WN/546WE MVA

Recommended Solution:

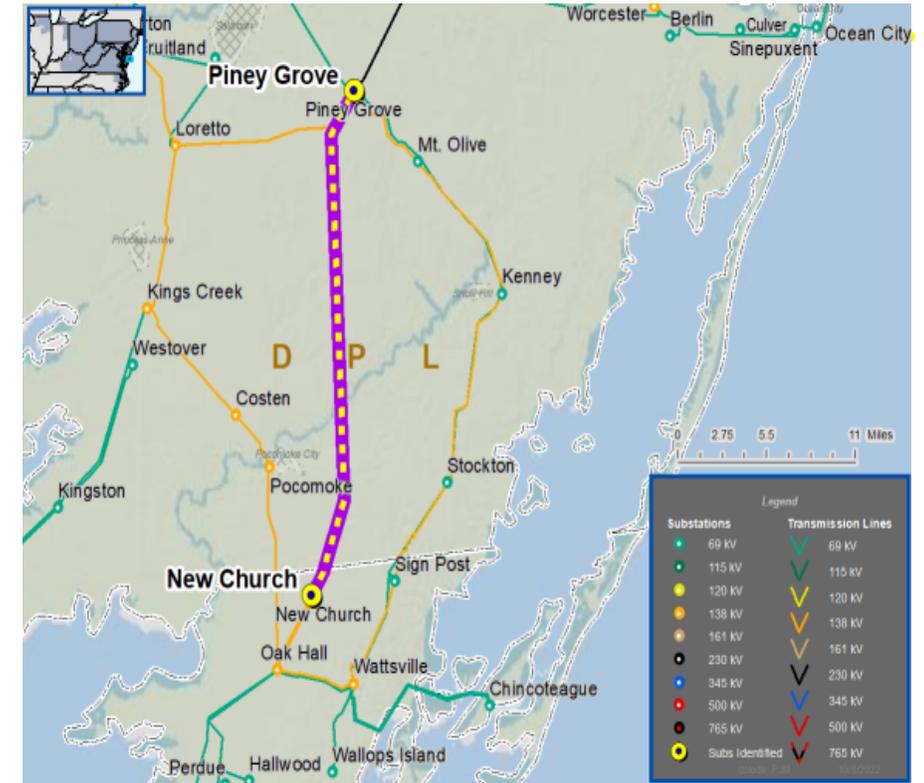
Rebuild the New Church - Piney Grove 138 kV line. (B3749)

Estimated Cost: \$63M \$77M

Reasons for Cost Increase:

- **Significant increase in access and matting scope (60% of cost increase):** The corridor includes wetlands, the Pocomoke River crossing, RTE species restrictions, and seasonal work limitations. These constraints materially increased temporary access requirements, including construction matting quantities, installation/removal effort, and longer durations in sensitive areas. Matting scope is now substantially higher than what was assumed in the original cost estimate.
- **Material cost escalation since 2022:** Steel monopoles, conductor (1590 ACSR Lapwing), OPGW, foundations, and associated hardware have all experienced notable price escalation since the original proposal. The current estimate reflects updated vendor pricing and long-lead material commitments consistent with today's market conditions
- **Estimate includes refined quantities:** After detailed engineering review, new cost estimate reflects finalized structure counts (steel monopoles replaced H-frames), foundation designs, constructability review, and more accurate labor and equipment assumptions than assumptions made at the original high-level planning stage.
- **Environmental, permitting, outage coordination impacts:** Increased construction duration and indirect costs due to permitting requirements across Maryland and Virginia, avian protection measures, and outage sequencing constraints.

Projected In-Service: 6/15/2027





ACE Transmission Zone: b3227

Upgrade ID: b3227

Previous TEAC date: 11/18/2020

Criteria: Summer N-1-1

Assumption Reference: 2025 RTEP assumption

Model Used for Analysis: 2025 RTEP Summer case

Proposal Window Exclusion: Below 200 kV exclusion

Problem Statement: The Corson-Court 69 kV line is overloaded for several N-1-1 outages including the Corson-Middle 138 kV line and Corson-England 138 kV lines.

Violations were posted as part of the 2020 Window 1: FG# N2-ST25 to N2-ST34, N2-ST37, and N2-ST38

Existing Facility Rating: 87SN/111SE, 110WN/129WE MVA

Proposed Facility Rating: 122SN/157SE MVA, 141WN/177WE MVA

Recommended Solution:

Rebuild the Corson-Court 69 kV line to achieve ratings equivalent to 795 ACSR conductor or better. (b3227)

Estimated Cost: ~~\$13.2M~~ \$20M

Reason for Cost Increase:

- Material and labor costs have increased significantly from 2020.
- The original proposal included only rebuilding portions of line with deficient conductor ratings (<795 ACSR); detailed engineering determined that the entire line, including 2+ miles of 795 ACSR portions, needed rebuilding to ACE design standards for resiliency.

Projected In-Service: 6/1/2026



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| 1 | February 9 th , 2026 | <ul style="list-style-type: none">• Original slides posted |
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