

# Reliability Analysis Update

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Sub Regional RTEP Committee – PJM  
West

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# Scope Change Baseline Reliability Projects

# APS Transmission Zone: Baseline b3773: Warfordsburg Capacitor Bank

**b3773: Previously presented 1/6/2023 TEAC**

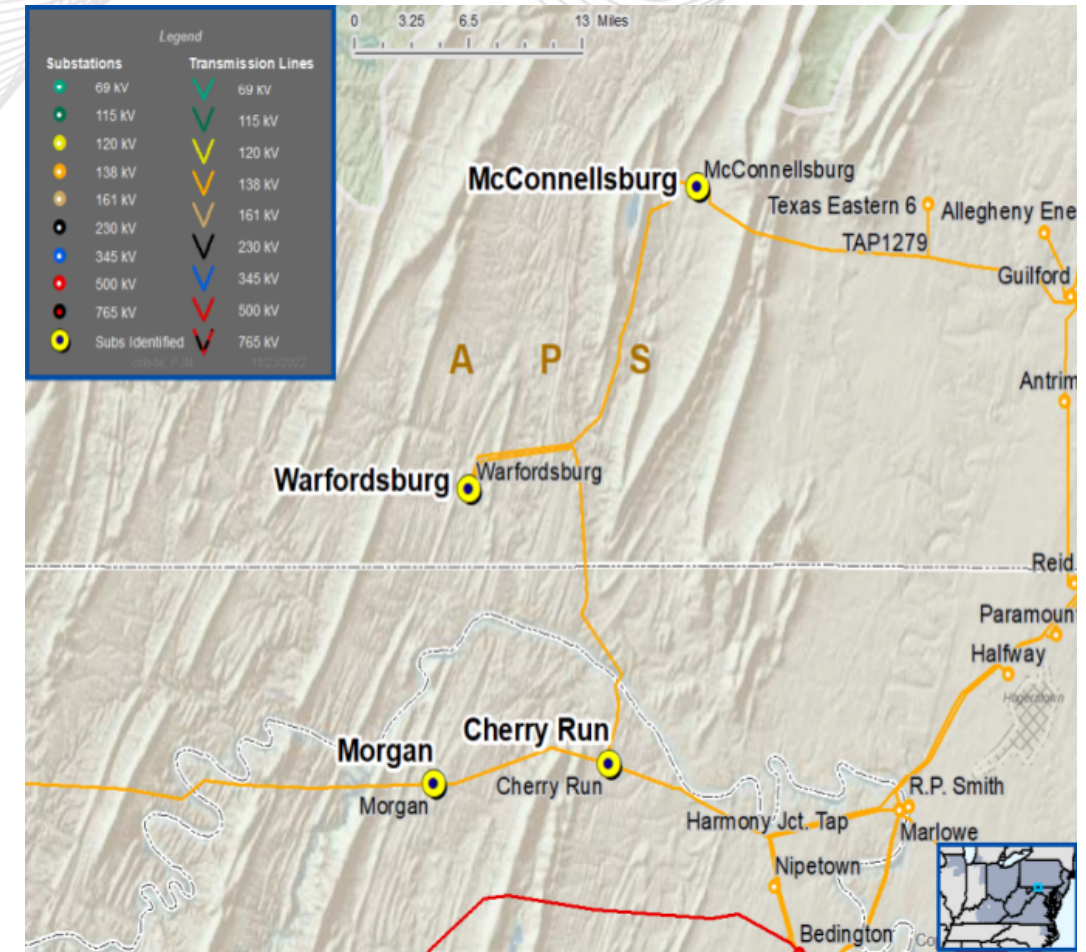
## Problem Statement:

In 2027 RTEP Winter case, Low Voltage is observed at McConnellsburg, Warfordsburg, Morgan and Cherry Run 138 kV substation due to N-1-1 contingencies.

## Original Proposed Solution:

Install (1) 33 MVAR switched capacitor, 138 kV breaker, and associated relaying at McConnellsburg Substation.

FirstEnergy has identified significant challenges with installing a 138 kV capacitor at McConnellsburg Substation, including the need for a fence expansion and new control building and therefore, are proposing to install the 138 kV capacitor at Warfordsburg Substation instead. There is no change in cost or In-service date



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## Revised Proposed Solution:

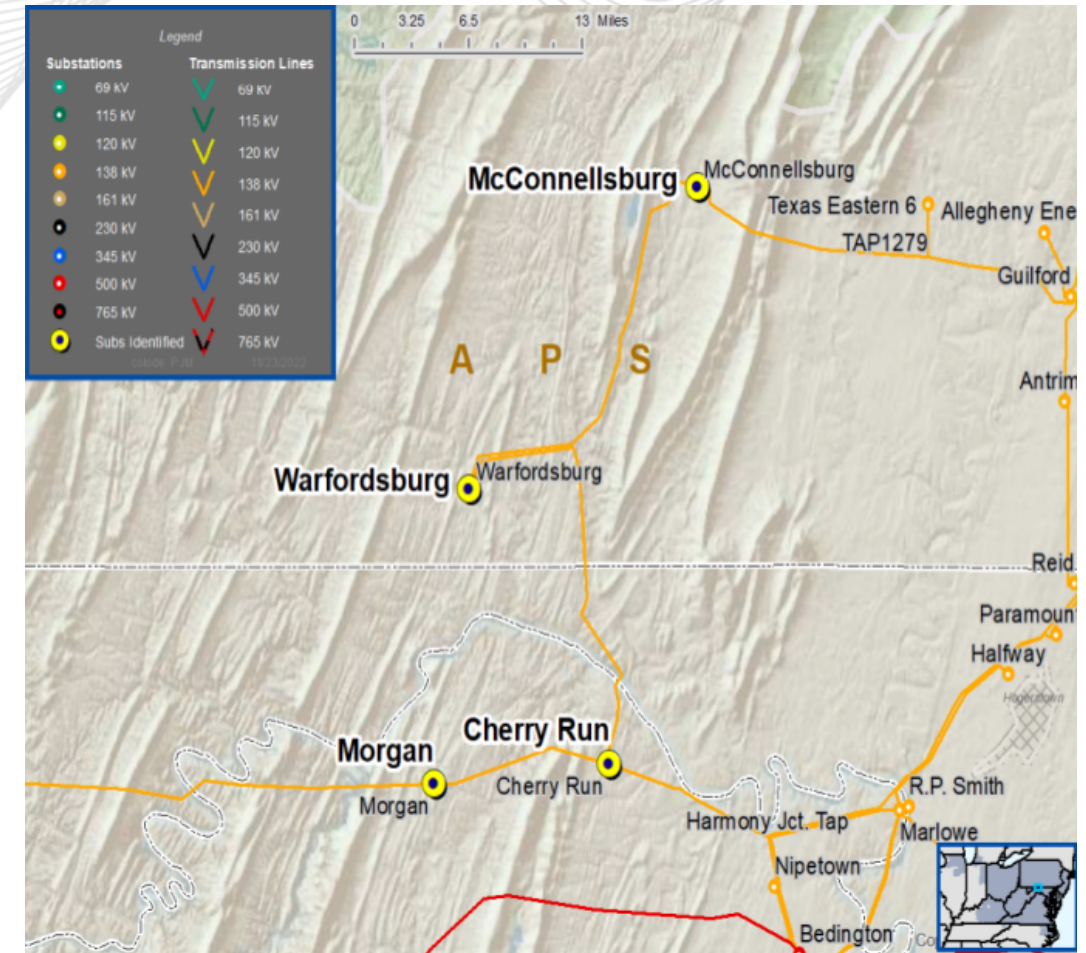
Install (1) 31.7 MVAR switched capacitor, 138 kV breaker, and associated relaying at Warfordsburg Substation

**Estimated Cost: \$3.05M (No change)**

**Alternatives: N/A**

**Required in-service date: 6/1/2027**

**Projected in-service date: 6/1/2027 (No change)**



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**Reliability Analysis Update**

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Version No.	Date	Description
1	April 8, 2025	<ul style="list-style-type: none"><li>• Original slides posted</li></ul>

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