

# PEPCO 2025

## Submission of Supplemental Projects for Inclusion in the Local Plan

4/22/2025

# Submission of Supplemental Projects for Inclusion in the Local Plan

**Need Number:** PEP-2024-003

**Process Stage:** Submission of Supplemental Project for inclusion in the Local Plan 4/22/2025

**Previously Presented:**

Solutions Meeting 1/7/2025 ,Need Meeting 11/6/2024

**Project Driver:**

Operational Flexibility and Efficiency

**Specific Assumption Reference:**

- Enhancing system functionality, flexibility, visibility, or operability
- Provide Operations more options to deal with non-standard operating conditions
- Limiting the number of taps on a transmission line (causing simultaneous outages of multiple networked elements for a single event)

**Problem Statement:**

Mt. Zion Substation contains multiple 230 kV networked elements with tapped facilities serving a large area of downstream load.



**Need Number:** PEP-2024-003

**Process Stage:** Submission of Supplemental Project for inclusion in the Local Plan 4/22/2025

## Proposed Solution:

- Install (12) 3000 Amp 230kV breakers at Mt Zion.
- Replace (24) disconnects switches with (24) 3000 Amp Motor operated disconnects (MODs).
- Install relays for each new breaker and at the remote end stations.
- Install new telecom equipment to support breaker protection.
- Adding breakers and MODs will improve system functionality, flexibility, and operability by giving operations more options to handle various operating conditions.
- Integrating breakers will eliminate the tapped transmission line configuration at Mt Zion, preventing simultaneous outages of multiple networked elements during a single event.

Total estimated cost: \$22M

## Alternatives Considered:

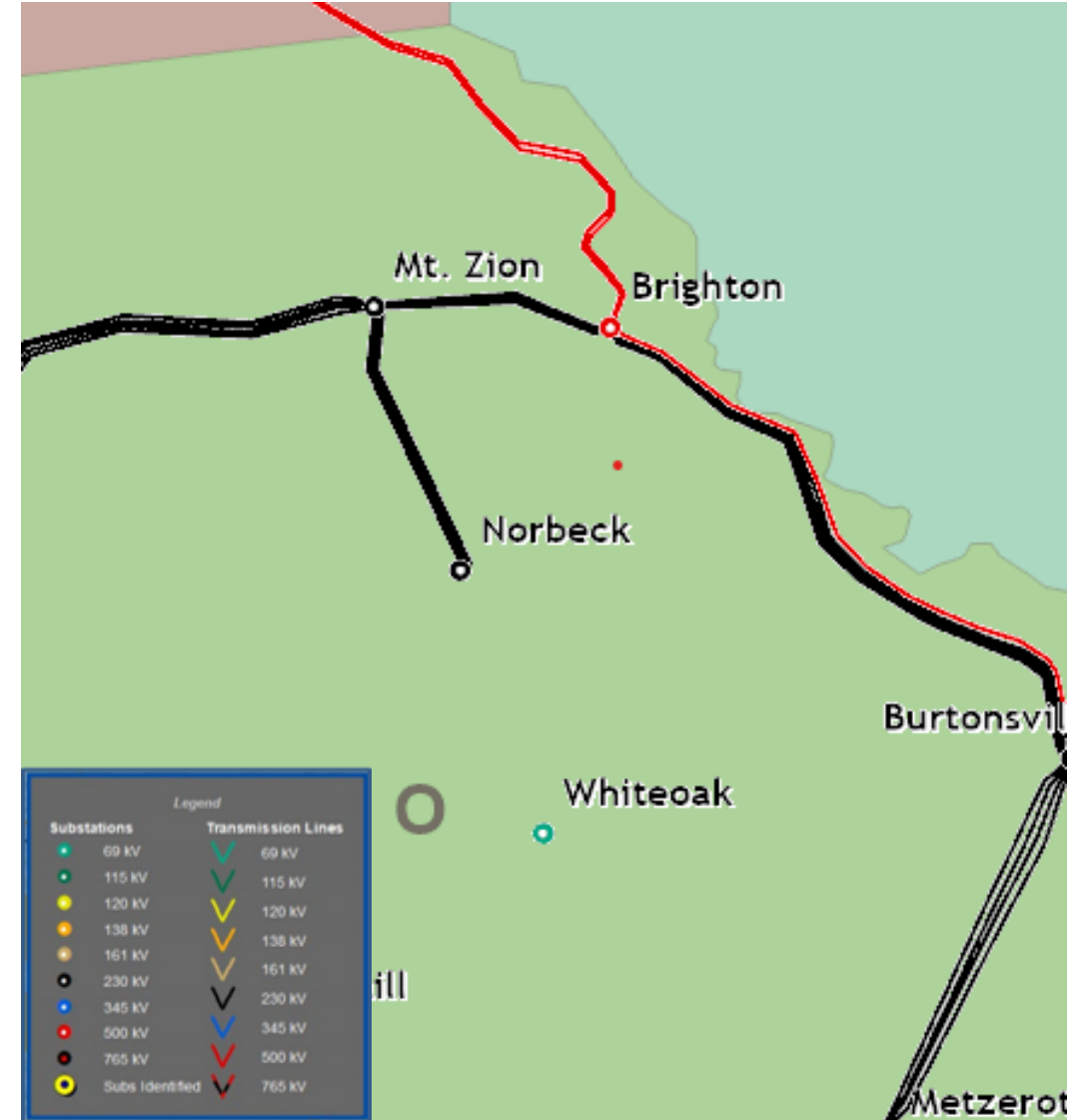
Complete rebuild of Mt Zion Substation. Total estimated cost in excess of \$100M.

**Supplemental Project ID:** s3572.1, s3572.2, s3572.3, s3572.4,

**Projected In-Service:** 6/1/2030

**Project Status:** Engineering

**Model:** RTEP 2028



04/22/25 – V1 – Posted s3572.1, s3572.2, s3572.3, s3572.4