

# Sub Regional RTEP Committee PJM Mid-Atlantic Reliability Update

September 15, 2022

SRRTEP – Mid Atlantic 09/15/2022 PJM©2022



## Second Review

**Baseline Reliability Projects** 



### **PSEG Transmission Zone: Baseline**

Process Stage: Second Review

Criteria: TPL-001-4 R2 section 2.1.5 (Spare Equipment), Short Circuit

**Assumption Reference**: 2026 RTEP assumption

Model Used for Analysis: 2022 and 2026 RTEP Summer case

Proposal Window Exclusion: Immediate Need/ Below 200 kV/Substation Equipment

**Problem Statement:** For the outage of the Bergen series reactors, the normally open bypass switches have to be closed to keep the Bergen – Fairlawn and Bergen – East Rutherford 138 kV operational. The current rating of the two bypass switches are lower than the circuit ratings, as a result the rating of the circuits will be limited by the bypass switches.

In addition, the maximum short circuit current exceeds the two 138 kV bypass circuit switchers existing ratings.

#### **Recommended Solution:**

Replace the two existing 1200A Bergen 138kV Circuit Switchers with two (2) 138kV Disconnect Switches to achieve a minimum summer normal device rating of 298 MVA and a minimum summer emergency rating of 454 MVA. (B3719)

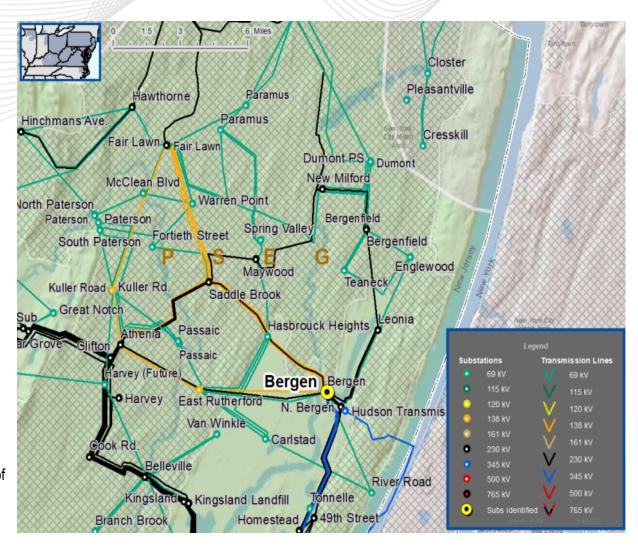
Estimated Cost: \$1.2 M

#### **Alternatives**

Replace the two (2) existing 1200A Bergen 138kV Circuit Switchers with two (2) 138kV LTB (No Relay Tripping, Live Tank Breaker). This option was deemed infeasible due to space constraint at Bergen 138kV yard.

•Replace the two (2) existing 1200A Bergen 138kV Circuit Switchers with two (2) 1800A 138kV Circuit Switchers. This option was deemed infeasible due to short circuit withstand rating limitation of the Circuit Switchers.

Required In-Service: 2022





# **Questions?**



# **Upcoming SRRTEP Meetings**

The Next 2022 Mid-Atlantic SRRTEP meetings are as followed

- 9/15
- 10/13
- 11/17
- 12/14

2022





V1 – 9/8/2022 – Original slides posted