



Sub Regional RTEP Committee PJM Mid-Atlantic Reliability Update

May 16, 2022

First Review

Baseline Reliability Projects

Process Stage: First Review

Criteria: FERC Form 715 (TO Criteria)

Assumption Reference: 2026 RTEP assumption

Model Used for Analysis: 2026 RTEP Summer case

Proposal Window Exclusion: Immediate Need/ Below 200 kV

Problem Statement: A large customer located in the Totowa Area will exceed 20MW of load by 1st quarter of 2025 and anticipates an additional 56MW of load by the end of 2031. Per PSE&G's FERC Form 715 criteria, if load exceeds 20 MW and an N-1-1 event would result in a complete loss of electric supply for more than 24 hours, a third source is required

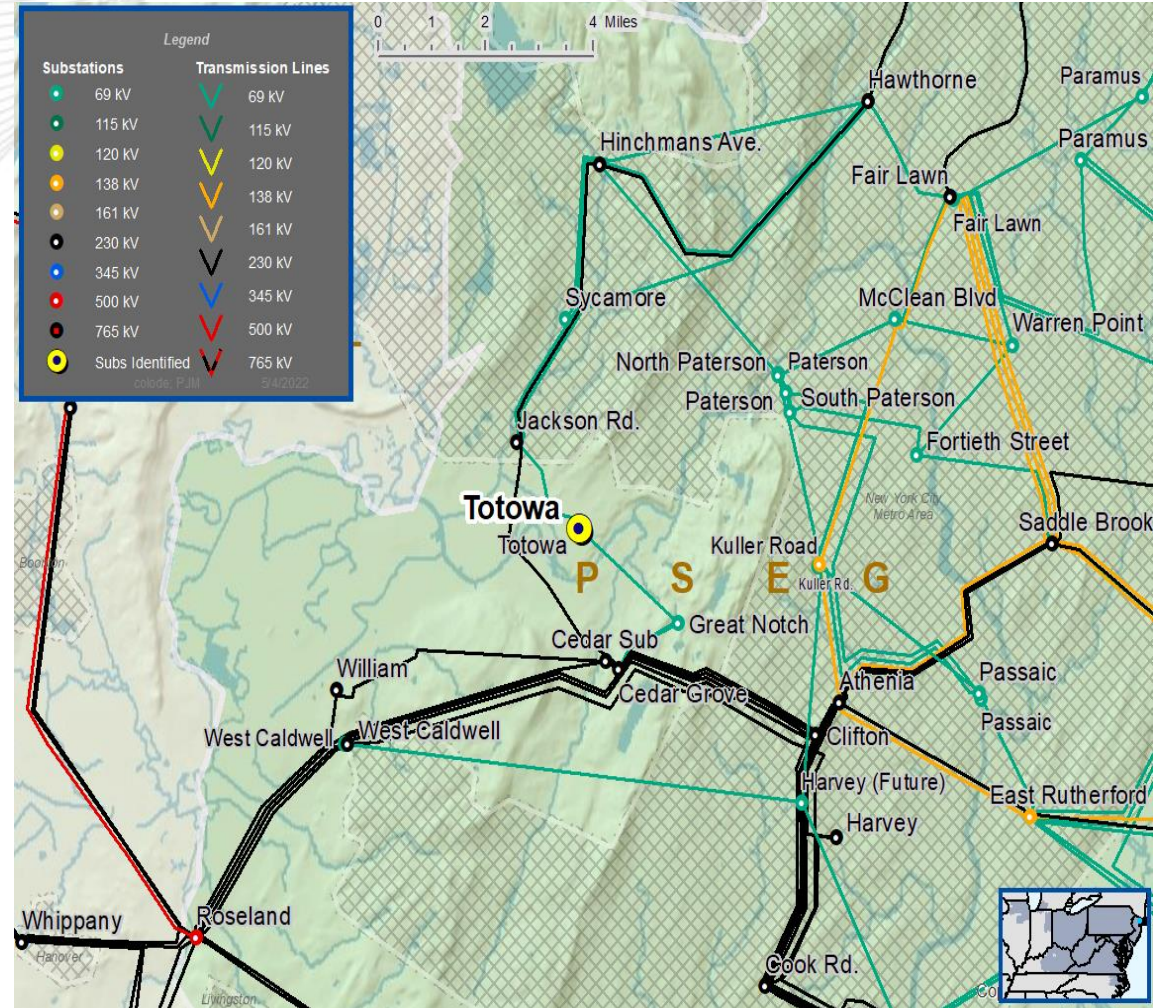
Proposed Solution:

Construct a third 69kV supply line from Totowa substation to the customer's substation.

Estimated Cost: \$8.2 M

Alternatives: N/A

Required In-Service: 1/1/2025



Short Circuit Project

B3674, B3675 and B3676 Upgrades Change

The B3674, B3675 and B3676 upgrades were identified as part of the 2021 RTEP Window 1 to resolve a First Energy FERC FORM 715 criteria.

- B3674 - Replace Five Atlantic 34.5 kV breakers (J36, BK1A, BK1B, BK3A and BK3B) with 63kA rated breakers and associated equipment
- B3675 - Replace Six Werner 34.5 kV breakers (E31A_Prelim, E31B_Prelim, V48 future, W101, M39 and U99) with 40 kA rated breakers and associated equipment
- B3676 - Replace One Freneau 34.5 kV breaker (BK6) with 63 kA rated breakers and associated equipment

Based on the latest First Energy analysis, it was determine that the B3674 and B3675 upgrades are driven by the B3130 (the MCRP replacement projects). As a result the baseline upgrade # for the B3674 and B3675 will be replaced by the following.

- B3130.11 - Replace four Atlantic 34.5 kV breakers (BK1A, BK1B, BK3A and BK3B) with 63kA rated breakers and associated equipment
- B3130.12 - Replace Six Werner 34.5 kV breakers (E31A_Prelim, E31B_Prelim, V48 future, W101, M39 and U99) with 40 kA rated breakers and associated equipment.

The B3676 will be canceled, the Freneau 34.5 kV breaker BK6 is no longer overdutied.

The Atlantic J36 breaker replacement will be canceled, the breaker is no longer overdutied.

Questions?



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2022

- The Next 2022 Mid-Atlantic SRRTEP meetings are as followed
- 6/13



Revision History

V1 – 5/11/2022 – Original slides posted

V2 – 5/12/2022 – Added slide #5