



Generation Interconnections

This analysis was completed to assess the reliability impact for a new generator interconnecting to the PJM system as a capacity resource.

Network Impacts - 727 MW Injection

Injection of 727 MW into the Camden - Richmond 230kV line was evaluated for network impacts. The following network impacts were identified:

Normal System

No identified problems.

Tower Line Outages (MAAC Criteria IIC)

No identified problems.

Generator Deliverability

No identified problems.

Short Circuit Analysis

The #E21 project contributes to four (4) overdutied breakers previously identified at Waneeta 230kV, and causes two (2) new overdutied breakers at Waneeta 230kV.

The #E21 project also causes six (6) new overdutied breakers at Richmond 230kV.

System Reinforcements

The estimated cost to replace three and upgrade one of the overdutied circuit breakers previously identified at Waneeta is \$.835 million. The E21 project will be allocated a portion of these costs. The estimated time for replacement is 2 years.

The estimated cost to replace the two new overdutied 230kV circuit breakers at Waneeta is \$0.5 million. The estimated time for replacement is 2 years.

The estimated cost to replace six 230kV circuit breakers at Richmond 230kV is \$1.5 million. The estimated time for replacement is 2 years.