

#P04 Peach Bottom 550 MW
Generation Interconnection

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

Network Impacts

The #P04 project was studied as an injection of 550 MW into the Peach Bottom 500 kV substation. Project #P04 was evaluated for compliance with reliability criteria for summer peak conditions in 2010. Potential network impacts were as follows:

Generator Deliverability

No problems were identified.

Multiple Facility Contingency

No Problems identified.

Short Circuit

1. Peach Bottom 500 kV breaker # 215 is overdutied due to the addition of Queue P04 generation.

New System Reinforcements

1. Peach Bottom circuit breaker #215 can be upgraded to the required 63kA interrupting rating for about \$50,000. Under ordinary circumstances, this breaker could be upgraded in about 8 months after we receive authorization to proceed. However, this is an output breaker for Peach Bottom Unit #2.and any work on this breaker will most likely have to be coordinated with a refueling outage.

Contribution to Previously Identified Overloads

None

Contribution to Previously Identified System Reinforcements

None