



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 -550 MW Injection into the TMI-Peach Bottom 500kV transmission line (D20)

Network Impacts

The D20 project was modeled as an injection of 550 MW into the TMI - Peach Bottom 500 kV circuit (refer to the Direct Connection section of this report). A summary of network impacts follows:

Normal System

- No identified problems.

Multiple Facility Contingency - Tower Line Outages (MAAC Criteria IIC)

- No identified problems.

Generator Deliverability

- No identified problems.

Short Circuit Analysis

No new problems identified. The D20 project contributes to eleven (11) 500 kV breakers at Peach Bottom that were identified as being overdutied due to the addition of projects in earlier queues.

System Reinforcements

The D20 project contributes to the need to replace or upgrade eleven (11) breakers at the Peach Bottom 500 kV substation. The cost estimate is \$8 million with a 2-year lead-time.

The actual cost allocation amounts for network upgrades required by more than one generation project will be defined in the Impact Study report.