



Generation Interconnections

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

Network Impacts - 550 MW Injection

Network impacts for the injection of 550 MW into the Conastone - Peach Bottom 500kV line were evaluated for 2004 summer peak conditions. Based on the power flow analysis performed the following network impacts were identified:

NETWORK VIOLATIONS

Normal System

- No identified problems.

Single Contingency

- No identified problems.

Double Circuit Tower Circuit Outages (MAAC Criteria IIC)

- No identified problems.

SHORT CIRCUIT ANALYSIS

- All breakers at the Peach Bottom 500 kV are over-dutied and need to either be upgraded or replaced.

<u>Location</u>	<u>ID</u>	<u>Estimate</u>
Peach Bottom 500kV	15	\$50,000
Peach Bottom 500kV	25	\$950,000
Peach Bottom 500kV	35	\$950,000
Peach Bottom 500kV	45	\$950,000
Peach Bottom 500kV	55	\$950,000
Peach Bottom 500kV	65	\$950,000
Peach Bottom 500kV	205	\$950,000
Peach Bottom 500kV	215	\$50,000
Peach Bottom 500kV	225	\$50,000
Peach Bottom 500kV	235	\$950,000

Peach Bottom 500kV 245 \$950,000

The time required to perform the required upgrade and replacement of the Peach Bottom 500kV circuit breakers is estimated to be 18 to 24 months.