



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

Network impacts for the injection of 550 MW into the Red Lion 500kV Bus 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 (MAAC Criteria IIA)

- Contributes approximately 37 MW to the overload on the Graysferry - Parrish 230 kV circuit for the loss of Concorde - Lenape 230 kV. The cost to reinforce this facility is \$14,700,000. The time required to construct this reinforcement is 36 months.
- Contributes approximately 26 MW to the overload of the A27 project - Graysferry 230 kV for the loss of the A19 project - Macdade 230 kV. The cost to reinforce this facility is \$2,000,000. The time required to construct this reinforcement is 36 months.

Double Circuit Tower Circuit Outages (MAAC Criteria IIC)

- No identified problems.

SHORT CIRCUIT ANALYSIS

- No identified problems from a screening analysis of circuit breaker short circuit duty. A more complete analysis will be performed as part of the Impact Study.