



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 -752MW Injection at Oyster Creek.

Potential network impacts for the injection of 752 MW into the Oyster Creek 230 kV substation were evaluated for summer peak conditions in 2004. Several generation scenarios were studied in an attempt to bracket expected system conditions in 2004.

Based on this analysis, no network reinforcements are expected due to a 752 MW injection at the Oyster Creek 230 kV substation. A summary of the results follows:

A) Normal Conditions

- No problems were identified.

B) Single Contingency

- No problems were identified.

C) Tower Line Contingency

- No problems were identified.

D) Short Circuit Analysis

- The fault duty was evaluated at all 230 kV and 500 kV substations that had a greater than 5% increase in fault current due to the new generator. The fault duty was below all circuit breaker interrupting capabilities and, as such, no bulk system circuit breaker replacements would be expected due to this new generation.

At the request of the developer, the 752 MW at Oyster Creek was analyzed without the existing nuclear unit at Oyster Creek.

