



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 - 26 MW Injection

Network impacts for the injection of 26 MW into the Salem 500 kV 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

- No identified problems.

Multiple Facility Contingency (MAAC Criteria IIC)

- No identified problems.

SHORT CIRCUIT ANALYSIS

- No identified problems

STABILITY ANALYSIS

· Stability Analysis is not performed within the scope of the Feasibility Study, but will be done as an integral part of the Impact Study for project #C7. Since there are existing stability related operating restrictions for the Artificial Island generating units (Salem Units #1 and #2, and Hope Creek Unit #1) it is expected that an increase in capacity may either increase the existing operating restrictions or require mitigation by means of turbine-generator upgrades or network enhancements.