



Generation Interconnections

Network Impacts

Potential network impacts for the injection of 100 MW into the existing Parlin 230 kV substation was evaluated for summer peak conditions in 2005.

Normal System

- No identified problems

Multiple Facility Contingency (MAAC Criteria IIC)

- The Raritan River - Kilmer "I" 230 kV circuit and the Kilmer - Lake Nelson "I" 230 kV circuit is overloaded for the double circuit tower outage that includes the South River - Atlantic 230 kV and Parlin - Frenau 230 kV circuits.

Generator Deliverability

- The Raritan River - Kilmer "I" 230 kV circuit is overloaded for the outage of the Raritan River - Kilmer "W" - Lake Nelson - Green Brook - Gillette 230 kV circuit.

Short Circuit Analysis

- No identified problems.

System Reinforcements

- To eliminate the overloads identified above, the following system upgrades are required. Re-conductor the Raritan River - Kilmer "I" 230 kV circuit with 2 - 1590 ACSR at a cost of \$13.7 million and take 2.5 years to complete. Re-conductor the Kilmer - Lake Nelson "I" 230 kV circuit with 2 - 1033 ACSR at a cost of \$ 6 million and take 2 years to complete. The total cost estimate for network reinforcements listed above is \$19.7 million and it will take 2.5 years to complete. The estimated cost does not include a tax gross - up which will be addressed in the Interconnection Agreement. The current tax rate is 38 % in New Jersey.

Cost allocation percentages are not provided as part of the Feasibility Study analysis, however, cost allocation will be provided at the conclusion of the Queue D, E & F Impact Study evaluations.

