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 - 765 MW Injection at Sayreville

Evaluation of this project, which is located along the double circuit 230kVtower line from the Sayreville 230kV substation to the South River and Parlin 230kV substations, has shown that the most economical interconnection is to split the project and connect a portion to the Sayreville-South River 230kV line and a portion to the Sayreville-Parlin 230kV line. The load flow analysis consisted of evaluating single contingencies, tower line contingencies, stuck breaker contingencies and contingencies while another facility was out of service. In addition both stability testing and short circuit breaker duty testing was completed.

The only problem found is an overload of substation equipment at Freneau on the Parlin-Freneau 230kV line for the loss of the South River-Atlantic 230kV line with the Sayreville-Gillette 230kV line out for maintenance near Sayreville. This problem can be remediated for approximately $40,000.

These results reflect analysis that is beyond the scope of Feasibility studies as currently defined in Section IV of the PJM Tariff filed with FERC on March 31, 1999. This study was performed under a contract executed prior to March 31, 1999.