Generation Interconnection

This analysis was completed to assess the reliability impact for a new generator interconnecting to the PJM system as a capacity resource.

Network Impacts -51.6 MW Injection into the Frackville 69kV substation (G34)

Network Impacts

Potential network impacts for the injection of 51.6 MW into the Hauto-Frackville #3 69kV line were evaluated for summer peak conditions in 2005.

A summary of the results follows:

Normal System

- No identified problems.

Multiple Facility Contingency (MAAC Criteria IIC)

- No identified problems.

Generator Deliverability

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- No identified problems.

Short Circuit Analysis

Short circuit analysis was performed in the area of the new G34 generation. Analysis indicates that the existing 69 kV fuses at Altamont substation will be over-dutied. The estimated cost to replace the fuses is $26,000.

Northeast PA dynamic system stability tests (MAAC Section IV) will be conducted during the Impact Study. Stability studies have not been conducted as part of this Feasibility Study.

Cost

The cost for interconnecting this generating facility consists of the direct connection requirements of $522,000 and the network requirements to replace fuses at Altamont for $26,000. The total cost to interconnect this project is $548,000.