

**#V4-019 Bergen 230kV**  
**Generation Interconnection**

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

**Network Impacts**

The queue V4-019 project was studied as a 60MW capacity injection into PSEG's system at the Bergen 230kV substation. Project V4-019 was evaluated for compliance with reliability criteria for summer peak conditions in 2014. Potential network impacts were as follows:

**Generator Deliverability**

*(Single or N-1 contingencies for the Capacity portion only of the interconnection)*

No problems identified

**Multiple Facility Contingency**

*(Double Circuit Tower Line, Line with Failed Breaker and Bus Fault contingencies for the full energy output)*

No problems identified

**Short Circuit**

*(Summary form of Cost allocation for breakers will be inserted here if any)*

No problems identified. There are no changes to the machine reactances due to this upgrade.

**Contribution to Previously Identified Overloads**

*(This project contributes to the following contingency overloads, i.e. "Network Impacts", identified for earlier generation or transmission interconnection projects in the PJM Queue)*

None

**New System Reinforcements**

*(Upgrades required to mitigate reliability criteria violations, i.e. Network Impacts, initially caused by the addition of this project generation)*

None

**Contribution to Previously Identified System Reinforcements**

*(Overloads initially caused by prior Queue positions with additional contribution to overloading by this project. This project may have a % allocation cost responsibility which will be calculated and reported for the Impact Study)*

*(Summary form of Cost allocation for transmission lines and transformers will be inserted here if any)*

None