Y3-045 Bergen #1 230kV

Generation Interconnection

Network Impacts

The Queue Project #Y3-045 was studied as a 5.0MW (Capacity 5.0MW) injection at the Bergen 1 24 kV substation in the PSEG area. Project #Y3-045 was evaluated for compliance with reliability criteria for summer peak conditions in 2017. Potential network impacts were as follows:

Generator Deliverability

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

No problems were identified.

Multiple Facility Contingency

(Double Circuit Tower Line contingencies only for the full energy output. Stuck breaker and bus fault contingencies will be performed for the Impact Study)

No problems were identified.

Short Circuit

No problems were identified

Stability Analysis

This analysis will be completed in the final Impact Study.

Light Load Analysis

Light Load Studies are to be conducted during later study phases (applicable to wind, coal, nuclear, and pumped storage projects).

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

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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)

None

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