

#R43 Frackville 20 MW
Generator 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

The Queue R43 project was studied as a 20 MW Energy Resource and as a 4 MW Capacity Resource with injection at the Frackville 69 kV substation. Project R43 was evaluated for compliance with reliability criteria for summer peak conditions in 2011. Potential network impacts were as follows:

Generator Deliverability

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

No problems were identified

Multiple Facility Contingency

(Double Circuit Towerline contingencies only. Stuck breaker and bus fault contingencies will be performed for the Impact Study)

No problems were identified

Short Circuit Analysis

Will be performed for the Queue R43 Impact Study.

Stability Analysis

Will be performed for the Queue R43 Impact Study.

Contribution to Previously Identified Overloads

(Queue R43 contributes to the following contingency overloads, i.e. Network Impacts”, identified for earlier generation or transmission interconnection projects in the PJM Queue)

No problems were identified.

New System Reinforcements

(Upgrades required to mitigate reliability criteria violations, i.e. ”Network Impacts”, initially caused by the addition of Queue R43 generation)

None identified.

Contribution to Previously Identified System Reinforcements

(Overloads initially caused by prior Queue positions with additional contribution to overloading by Queue R27. Queue R27 may have a % allocation cost responsibility which will be calculated and reported for the Impact Study)

None identified.

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