#R20 Rock Springs 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 R20 project was studied as a 20 MW (capacity) injection at the Rock Springs 500 kV bus. Project R20 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
Not applicable, there is no change to generator and transformer impedance.

Stability Analysis
Not required.

Contribution to Previously Identified Overloads
(Queue R20 contributes to the following contingency overloads, i.e. Network Impacts", identified for earlier generation or transmission interconnection projects in the PJM Queue)

None identified.

Network Upgrades

New System Reinforcements

(Upgrades required to mitigate reliability criteria violations, i.e."Network Impacts", initially caused by the addition of Queue R20 generation)

None identified.

Contribution to Previously Identified System Reinforcements

(Overloads initially caused by prior Queue positions with additional contribution to overloading by Queue R20. Queue R07 may have a % allocation cost responsibility which will be calculated and reported for the Impact Study)

None identified.

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