

#U1-096 Reybold 13 kV 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***

Queue U1-096 was studied as a 20 MW (net energy and Capacity) injection into the Reybold 13.8 kV bus and as a 20 MW load (while charging the flywheel) at Reybold 13.8 kV bus. Queue U1-096 was evaluated for compliance with reliability criteria for summer peak conditions in 2013. Potential network impacts were as follows:

**NETWORK IMPACTS**

**Local Transmission System Impacts**

*(Normal system conditions with all facilities in service, and contingency analysis per documented Reliability Criteria, generally FERC Form 715, for Transmission Owner's underlying system)*

No problems identified.

**Generator Deliverability**

*(Normal System with all facilities in-service and Single, or N-1, contingencies for the Capacity portion only of the interconnection)*

No problems 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 identified.

**Short Circuit Analysis**

No problems identified.

**Steady-State Voltage and Reactive Power Requirements**

*(Evaluation of steady-state voltage and reactive requirements)*

Will be performed for the Impact Study.

**Stability**

If necessary, will be performed during the Impact Study.

**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)*

No problems identified.

**NETWORK UPGRADE REQUIREMENTS**

**New System Reinforcements**

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

None required.

**Contribution to Previously Identified System Reinforcements** *(This project contributes to the Network Impact causing the need for these Network Upgrades. This project will be allocated a cost to be determined during the Impact Study)*

None required.