

# ***PJM Generator Interconnection Y2-064 Printz— 19MW Feasibility Study***

## ***Network Impacts***

The Queue Project Y2-064 was studied as a 19 MW (Capacity 19.0 MW) injection at the PRINTZ 230 kV substation in the PECO area. Project #Y2-064 was evaluated for compliance with reliability criteria for summer peak conditions in 2016. Potential network impacts were as follows:

### **Generator Deliverability**

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

No violations identified.

### **Multiple Facility Contingency**

*(Double Circuit Tower Line contingencies only with full energy output. Stuck Breaker and Bus Fault contingencies will be applied during the Impact Study)*

No violations identified.

### **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 violations identified.

### **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**

*(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 required.

**Short Circuit**

*(Report over-dutied breakers.)*

Not required for this uprate request.

**Stability Analysis**

Will be performed during System Impact Study phase (at 606.5MW MW net output).

**Power Factor and Reactive Requirements**

To be determined in System Impact Study phase.

**Energy Portion of Interconnection Request**

PJM also studied the delivery of the energy portion of the surrounding generation. Any potential problems identified below are likely to result in operational restrictions to the project under study. The developer can proceed with network upgrades to eliminate the operational restriction at their discretion by submitting a Transmission Interconnection request.

*Note: Only the most severely overloaded conditions are listed. There is no guarantee of full delivery of energy for this project by fixing only the conditions listed in this section. With a Transmission Interconnection Request, a subsequent analysis will be performed which analyzes all overload conditions associated with the overloaded element(s) identified. As a result of the aggregate energy resources in the area, the following violations were identified.*

Not Applicable