Network Impacts

Queue project W2-028 was studied as a(n) 5.0MW (5.0MW of which was Capacity) injection into the Limerick 230kV Substation bus. The project was studied utilizing an AC analysis, and incorporates all contingency types. Project W2-028 was evaluated for compliance with reliability criteria for summer peak conditions in 2014. 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 evaluated for the Impact Study)

No problems were identified

Short Circuit Analysis

Not required for the uprate, there are no changes to the Queue W2-028 generator or generator step-up transformer impedance.

Power Factor and Reactive Requirements

Will be performed for 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)

None 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 identified.

Contribution to Previously Identified System Reinforcements
(Overloads initially caused by prior Queue positions with additional contribution to overloading by this project.)

None identified.