

PJM Generator Interconnection Request Feasibility Study Report – PJM Web Version

Queue Position U4-030

April 30, 2009

DOCS No. 538546-v1

General

The Interconnection Customer (IC) has proposed a 6 MW Capacity increase to the output of a generating unit located in Rockford, Illinois. The proposed in-service date for the generation is the four quarter of 2010.

This Generation Interconnection Feasibility Study assesses the practicality and cost of incorporating the proposed 6 MW Capacity generator increase into the Commonwealth Edison Company (ComEd) system. In accordance with the process set forth in PJM's Manual 14B, *PJM Regional Planning Process*, the study was limited to load flow analyses of probable contingencies. Since there is no change to the facilities at the point of interconnection, ComEd has provided no estimates for attachment facilities. If the IC elects to pursue the System Impact Study, a more comprehensive analysis will be performed.

Network Impacts

The queue project U4-030 was studied as a 6 MW Capacity injection into the existing generator in ComEd's territory. U4-030 was evaluated for compliance with reliability criteria for summer peak conditions in 2012. Potential network impacts were as follows:

Generator Deliverability

(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.

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.

New System Reinforcements

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

No system upgrades were identified during the course of this feasibility study.

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.

Short Circuit

The short circuit analysis was not required because there were no changes to the generator or its associated transformer.

Preliminary Cost Estimate

As there are no Direct Connection costs to the existing connection and no New System Reinforcements have been identified, therefore the preliminary cost estimate for the proposed generator project is **\$0.00**.

Construction Lead Time

This project will not require any additional time to complete from the date of receipt of a signed Interconnection Service Agreement (ISA) because this project will utilize an existing interconnection point and no New System Reinforcements were identified. If developer elects to pursue the System Impact Study, a more comprehensive analysis will be performed which will include system stability analysis.