

U1-066 Carlls Corner 69kV **Generation Interconnection**

General

The Interconnection Customer (IC), has proposed a 20 MW upgrade to their existing Carlls Corner combustion turbine generating facility located in Bridgeton, New Jersey. The projected in service date of the upgrade is May 2009. The project was evaluated for compliance with reliability criteria for summer peak conditions in 2012.

Point of Interconnection: The U1-066 Point of Interconnection (POI) is the Atlantic City Electric's (ACE) transmission system at the Carlls Corner 69 kV substation. U1-066 was studied as a 20 MW injection into the Carlls Corner 69kV substation.

Direct Connection Requirements

Transmission Owner Scope of Direct Connection Work

No additional Direct Connection facilities are required.

Interconnection Customer Scope of Direct Connection Work

The developer has assumed full responsibility for design and construction of all facilities associated with the U1-066 generating station and the 69 kV direct connection line on the Interconnection Customer side of the POI.

Protective relaying and metering design and installation must comply with Atlantic City Electric's Applicable Standards.

Network Impacts

Potential network impacts are as follows:

Generator Deliverability

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

None

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 System Impact Study)*

None

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)*

Short Circuit

Not required.

Stability and Reactive Power Requirements

Will be performed during the Queue U1-066 System Impact Study.

Steady State Voltage Requirements

Will be performed during the Queue U1-066 System Impact Study.

New System Reinforcements

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

None

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 System Impact Study)

None