Generation Interconnection Combined Feasibility/System Impact Study Report

(PJM Portion)

For

PJM Generation Interconnection Request Queue Position V2-005

Pleasantville 12kV

October 2009

Preface

The intent of a Combined Feasibility/System Impact Study is to determine a plan, with approximate cost and construction time estimates, to connect the subject generation interconnection project to the PJM network at a location specified by the Interconnection Customer. As a requirement for interconnection, the Interconnection Customer may be responsible for the cost of constructing: Network Upgrades, which are facility additions, or upgrades to existing facilities, that are needed to maintain the reliability of the PJM system. All facilities required for interconnection of a generation interconnection project must be designed to meet the technical specifications (on PJM web site) for the appropriate transmission owner.

The following report documents the PJM results of the Combined Feasibility/System Impact Study for V2-005, Pleasantville 12kV. It does not include the Transmission Owner's (TO) results which will be provided under separate cover. No transmission network impacts were found.

General

AC Landfill Energy, LLC, the Interconnection Customer (IC), has proposed a 1.91 MW (1.91 MW capacity) methane fueled generating facility consisting of a single reciprocating engine generator set. The facility will be located at 6800 Delilah Road, Egg Harbor Township, Atlantic County, New Jersey. V2-005 was studied as a 1.91 MW injection into the Atlantic City Electric's system at the Pleasantville 12kV substation and was evaluated for compliance with reliability criteria for summer peak conditions in 2013. The planned in-service date is June 2010.

Point of Interconnection

V2-005 will interconnect with the Atlantic City Electric distribution system at the existing Pleasantville 12kV substation (see Attachment 1).

Direct Connection Requirements

Transmission Owner Scope of Direct Connection Work

To be provided with TO's results.

Interconnection Customer Scope of Direct Connection Work

The Interconnection Customer assumes full responsibility for design and construction of all facilities associated with the V2-005 generating station and the 12kV direct connection line on the IC side of the POI. Site preparation including grading and an access road, as necessary, is assumed to be by the developer. Route selection, line design, right-of-way acquisition and construction of lines will be entirely the responsibility of the IC.

The IC will be required to install metering and telemetry equipment to provide revenue metering and real-time telemetry data to PJM. The requirements for this equipment are listed in Appendix 2, Section 8 of Attachment O to the PJM Tariff, as well as PJM Manuals 01 and 14D. Protective relaying and metering design and installation must comply with Atlantic City Electric 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, Line with Failed Breaker and, Bus Fault contingencies for the **Full** energy output.*

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)

None

Short Circuit

Not required.

New System Reinforcements

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

None

Contribution to Previously Identified System Reinforcements

(Overloads initially caused by prior Queue positions with additional contribution to overloading by this project.

None

Stability Analysis

Not required.

Attachment 1