Generation Interconnection Combined Feasibility/System Impact Study Report

For

PJM Generation Interconnection Request Queue Position AA2-125

Edison 138 kV

July 2015

Preface

The intent of the 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.

In some instances an Interconnection Customer may not be responsible for 100% of the identified network upgrade cost because other transmission network uses, e.g. another generation interconnection or merchant transmission upgrade, may also contribute to the need for the same network reinforcement. The possibility of sharing the reinforcement costs with other projects may be identified in the Feasibility Study, but the actual allocation, if any, is included in the System Impact Study.

The Study estimates do not include the feasibility, cost, or time required to obtain property rights and permits for construction of the required facilities. The project developer is responsible for the right of way, real estate, and construction permit issues. For properties currently owned by Transmission Owners, the costs associated with them will be addressed when seeking an Interconnection Agreement as outlined below. Developer will also be responsible for providing and installing metering equipment in compliance with applicable PJM and Transmission Owner standards.

General

PSEG Fossil, LLC, the Interconnection Customer (IC), has proposed a natural gas generating facility located in Edison, New Jersey. This queue position is requesting 580.08 MW (504 MW of CIRs). The proposed in-service date for this project is May 31, 2017. **This study does not imply a PSE&G commitment to this in-service date.**

Point of Interconnection

AA2-125 will be interconnected with the PSE&G transmission system at the Edison 138 kV substation.

Cost Summary

The AA2-125 project will be responsible for the following costs:

Description	Total Cost
Attachment Facilities	$ 985,000
Direct Connection Network Upgrades	$ 0
Non Direct Connection Network Upgrades	$ 0
Allocation for New System Upgrades	$ 0
Contribution for Previously Identified Upgrades	$ 0
Total Costs	**$ 985,000**

Attachment Facilities

Revenue Metering and SCADA Requirements

PJM Requirements

The Interconnection Customer will be required to install equipment necessary to provide Revenue Metering (KWH, KVARH) and real time data (KW, KVAR) for IC's generating Resource. See PJM Manuals M-01 and M-14D, and PJM Tariff Sections 24.1 and 24.2.

PSE&G Requirements

The customer will be responsible for the following metering work:

- Upgrade (12) Generator Module meters
- Install (3) new meters on the transmission line
- Mount instrument transformers on top of T&D yard structure before the strain bus leading to GSU Xfmrs.
- Structural design, Structure modification, and Rigging.

The work is expected to take 8 months from a fully executed ISA/CSA.

Analysis Summary

This project has claimed 504 MW of CIRs from the Edison units 1-3 that deactivated in June 2015.