

***Generation Interconnection
Facilities Study Report***

For

***PJM Generation Interconnection Request
Queue Position AB2-092***

September 2019

General

PSEG Fossil, LLC, the Interconnection Customer (IC), has proposed an uprate to an existing natural gas generating facility located in Bergen, New Jersey. This project requests an increase to the install capability of 51.1 MW with 51.1 MW of this output being recognized by PJM as capacity. The installed facilities will have a total capability of 736.1 MW with 690 MW of this output being recognized by PJM as capacity. The AB2-092 project is reclaiming 21 MW of CIRs from the Bergen 3 unit. The proposed in-service date for this project is September 30, 2019. **This study does not imply a PSE&G commitment to this in-service date.**

Point of Interconnection

AB2-092 will interconnect with the PSE&G transmission system at the Bergen 138 kV substation between bus sections #1 & #3.

Cost Summary

AB2-082 Total Costs		Cost
Attachment Facilities		\$0
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		\$0

Executive Summary

PSEG Fossil, LLC, the Interconnection Customer (IC), has proposed an uprate to an existing natural gas generating facility located in Bergen, New Jersey. This project requests an increase to the install capability of 51.1 MW with 51.1 MW of this output being recognized by PJM as capacity. The installed facilities will have a total capability of 736.1 MW with 690 MW of this output being recognized by PJM as capacity. The AB2-092 project is reclaiming 21 MW of CIRs from the Bergen 3 unit.

The completion of this interconnection request is contingent upon the placement in-service of two separate Baseline Projects, B2722 & B2713, which have already been placed in service by Public Service Electric & Gas (PSE&G).

B2722 involves the reconductoring of the B1302 138kV transmission line between PSE&G's Bergen Switching station and PSEG Fossil's Bergen Generating Station to a summer normal rating of 555MVA. The current anticipated in-service date for B2722 is 12/31/2017 with currently submitted outages and related outages at Bergen Generating Station limiting opportunities for acceleration.

B2713 involves the replacement of PSE&G's Bergen Switching Station "90P" 138kV Breaker with an 80kA Breaker. The current anticipated in-service date for B2713 is 12/31/2017 with currently submitted outages and related outages at Bergen Generating Station limiting opportunities for acceleration.

A. Transmission Owner Facilities Study Summary

1. Description of Project

Generator Interconnection Request AB2-092 is for a 51.1MW uprate to a 690 MW Maximum Facility Output (MFO). AB2-092 is a 736.1MVA generator with a Point of Interconnection (POI) connected to Bergen 138kV switchyard in the PSEG transmission system, Ridgefield, NJ.

2. Amendments to System Impact Study Data or System Impact Study Results

There were no amendments to the System Impact Study data or the System Impact Study Results.

3. Interconnection Customer's Submitted Milestone Schedule

The Customer's In Service date is September 30, 2019.

4. Scope of Customer's Work For Direct Interconnection

No work is anticipated as part of this study.

5. Description of Facilities Included in the Facilities Study For Network Impacts

No work is anticipated as part of this study.

6. Total Costs of Transmission Owner Facilities included in Facilities Study

A summary of the total estimated costs for both Attachment Facilities and Network Upgrades included in the Facility Study.

AB2-082 Total Costs	Cost
Attachment Facilities	\$0
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	\$0

7. Summary of Milestone Schedules for Completion of Work Included in Facilities Study:

No work is anticipated as part of this study.

B. Transmission Owner Facilities Study Results

1. Transmission Lines – New

There are no New Transmission Line Facilities as part of this study.

2. Transmission Line – Upgrades

There are no Transmission Line Upgrades as part of this study.

3. New Substation/Switchyard Facilities

There are no New Substation/Switchyard Facilities as part of this study.

4. Upgrades to Substation / Switchyard Facilities

There are no Substation/Switchyard Upgrades as part of this study.

7. Summary of Results of Study

Cost Estimates: N/A

Assumptions:

PJM listed Baseline work impacting/impacted by Interconnection Request

- Existing baseline projects listed on PJM's RTEP Project Status database has been placed in-service.

Bergen Switching Station

- Existing metering equipment requires no replacement according to the technical specifications provided by PSEG Fossil for the new generation facility.

SINGLE-LINE DIAGRAM



