

Facilities Study Report

For

Physical Interconnection of

PJM Generation Interconnection Request

Project ID AH1-722

“Linden 230kV”

Introduction

This Facilities Study has been prepared in accordance with the PJM Open Access Transmission Tariff, as well as the Application and Studies Agreement between the Project Developer and PJM Interconnection, LLC (PJM or Transmission Provider (TP)). The Transmission Owner (TO) is PSE&G.

This Facility Study was performed to satisfy the Phase 2 Facility Study requirement of the PJM Tariff. The Facility Study is intended to provide scope, cost and schedule estimates for the project as currently defined and approved for Phase 2 study. In the event project changes are made during DP2 that impact this report, updates will be provided as part of the Phase 3 report. Following execution of the project's final agreement, this report will not be updated to account for other changes made as part of the agreements modification clause and instead the scope change process will be followed.

A. Transmission Owner Facilities Study Summary

1. PROJECT DESCRIPTION

The Project Developer (PD) has proposed a natural gas uprate to an existing natural gas Generating Facility located in, Union County, New Jersey with a designated PJM Project ID of AH1-722.

This project is an increase to the existing Z2-002 project, and will share the same Point of Change in Ownership.

The AH1-722 project is a 130.4 MW uprate (158.1 MW Capacity uprate) to the previous project. The total installed facilities will have a capability of 806.4 MW with 806.4 MW of this output being recognized by PJM as Capacity.

2. POINT OF INTERCONNECTION (POI)

The Generating Facility will interconnect with the PSE&G transmission system via a direct connection into the Linden 230kV substation.

The proposed generation interconnection is shown on the single line diagram in Attachment #1.

3. POINT OF CHANGE IN OWNERSHIP

The Point of Change in Ownership will be located at the termination of the 230kV conductor dead-end assembly on the Project Developer's A-frame on the line side of the reactors. Fiber communications for the protection of the generator lead line are Transmission Owner Interconnection Facilities owned by PSE&G from Linden Switching Station to the generator switchyard inclusive of the associated relays located at both stations.

4. SCOPE OF PROJECT DEVELOPER INTERCONNECTION FACILITIES

No modifications to existing Project Developer Interconnection Facilities were identified as part of this study.

B. Transmission Owner Facilities Study Results

The following is a description of the planned Transmission Owner facilities for the physical interconnection of the proposed AH1-722 project to PSE&G's transmission system. These facilities shall be designed according to PSE&G's Applicable Technical Requirements and Standards. Once built, PSE&G will own, operate, and maintain these Facilities.

1. TRANSMISSION OWNER INTERCONNECTION FACILITIES:

No modifications to existing Transmission Owner Interconnection Facilities were identified as part of this study.

2. STAND ALONE NETWORK UPGRADES

No Stand Alone Network Upgrades were identified as part of this study.

3. NETWORK UPGRADES

No Network Upgrades were identified as part of this study.

4. OTHER SCOPE OF WORK

Due to the proposed uprate to Linden Generating Station Unit 2, the existing PSE&G owned instrument transformers must be replaced with instrument transformers with higher ratings. The new instrument transformers shall be specified and procured by PSE&G at the Project Developer's expense. The Project Developer shall be responsible for all modifications, per Applicable Technical Requirements and Standards, that are necessary to support the new instrument transformers including, but not limited to:

- Modifications and/or replacement of foundations, structural pedestals, and associated facilities for instrument transformer mounting within the Project Developer's switchyard
- Modifications and/or replacement of buswork and other facilities necessary to connect instrument transformers to Project Developer Interconnection Facilities
- Mounting of instrument transformers upon structural pedestals
- Connection of instrument transformers to station buswork

5. MILESTONE SCHEDULE FOR COMPLETION OF PSE&G WORK

Facilities outlined in this report are estimated to take 24 months to construct, from the time the Generation Interconnection Agreement is fully executed. This schedule is may be impacted by the timeline for procurement and installation of long lead items, the ability to obtain outages to construct and test the proposed facilities.

Description	Start month	Finish month
Preliminary Engineering	1	3
Procurement	4	21

Construction	22	24
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6. ASSUMPTIONS IN DEVELOPING SCOPE/COST/SCHEDULE

- Costs are in 2026 dollars
- Historical data was utilized for the major equipment pricing.
- Equipment and material costs assume normal (non-expedited procurements).
- Construction labor assumes the use of union labor.
- Demolition costs have been included, where required, but do not include allowances for unknown underground obstructions, such as abandoned pipe, tanks, foundations, wells, etc.
- No allowance is included for contaminated soil disposal or environmental mitigation, if required.
- No material escalation costs have been included in the estimate.
- Outage requiring work can be scheduled to support the proposed project duration as planned. Transmission Outages are:
 - typically not taken from June to September
 - discouraged during extreme winter conditions, and
 - in some cases, must be scheduled twelve (12) or more months in advance
- Except as specifically noted in this report, costs related to compliance with FERC, NERC, or other regulatory authority requirements are not included. Where applicable, these costs may include the installation of security cameras, personnel access restrictions, upgraded perimeter gates, or other measures within a station
- The scope of the proposed milestone schedule only includes construction activities for PSE&G. Activities related to the design, procurement, permitting and construction of the generating facility and/or Project Developer Interconnection Facilities are not included and should be considered when developing GIA milestones.
- PSE&G has not conducted any analysis regarding the constructability of modifications to the Project Developer Interconnection Facilities that may be necessary as a result of this update
- The cost estimate is inclusive of PSE&G Interconnection program management costs

7. REVENUE METERING REQUIREMENTS

All revenue metering needed for this interconnection project must meet the metering requirements stated in Appendix 2, section 8 of the AH1-722 GIA, and in PJM Manuals M01 and M14D. The details of applicable revenue metering requirements are given in the Interconnection Requirements for Transmission Facilities 69kV and Higher manual posted on PJM website.

The revenue metering will be installed on the Project Developer side of the Point of Change in Ownership will be installed, owned and maintained by the PSE&G.

8. LAND REQUIREMENTS FOR INTERCONNECTION SUBSTATION

Land requirements for the Interconnection Substation needed for this interconnection project must meet the requirements in PSE&G's "Interconnection Requirements for Transmission Facilities 69kV and Higher" posted on PJM website.

9. APPLICABLE TECHNICAL REQUIREMENTS AND STANDARDS

Applicable Technical Requirements and Standard: The Interconnection Requirements for Transmission Facilities 69kV and Higher Rev 5.00 manual dated October 28, 2025 shall apply.

10. ENVIRONMENTAL AND PERMITTING

No environmental or permitting items were identified in the preparation of this study.

C. APPENDICES

Attachment #1: Single line Diagram for the Physical Interconnection

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