

**Facilities Study Report**

**For**

**Physical Interconnection of**

**PJM Generation Interconnection Request**

**Project ID AH1-710**

**“Salem 500kV”**

## **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 nuclear uprate to an existing nuclear Generating Facility located in, Salem County, New Jersey with a designated PJM Project ID of AH1-710.

This project is an increase to the existing H17 project, and will share the same Point of Change in Ownership.

The AH1-710 project is a 256.8 MW uprate (228.2 MW Capacity uprate) to the previous project. The total installed facilities will have a capability of 2,650.8 MW with 2,508.4 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 Salem 500 kV 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 500kV bushings of the #1 and #2 generator main transformers and on the 500kV bus side of the motor-operated disconnects for the #1, #2, #3, and #4 station power transformers.

### **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 AH1-710 project to the PSE&G transmission system. These facilities

shall be designed according to PSE&G 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 Salem Generating Station, the existing PSE&G owned metering assets located on the Project Developer's side of the Point of Change in Ownership must be upgraded to conform with current Applicable Technical Requirements and Standards. The new metering equipment shall be specified, procured, and installed 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 metering equipment including, but not limited to:

- Fabrication and/or installation of racking for metering equipment
- Labor and materials (excluding PSE&G procured materials) for installation, wiring, and commissioning of metering equipment
- Associated engineering for above items as may be necessary to conform with both PSE&G and Generator Owner standards

#### **5. MILESTONE SCHEDULE FOR COMPLETION OF PSE&G WORK**

Facilities outlined in this report are estimated to take 18-24 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<br>month | Finish<br>month |
|--------------|----------------|-----------------|
| Engineering  | 1              | 12              |
| Construction | 13             | 18              |

## **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 uprate
- The cost estimate is inclusive of PSE&G Interconnection program management costs
- The cost estimate is not inclusive of any activities required by the Project Developer to support work by PSE&G at the Generating Facility and/or Project Developer Interconnection Facilities.
- Synergies and conflicts between the proposed scope of work and other ongoing and/or proposed work at Salem Generating Station, Salem Switching Station, or neighboring facilities have not been taken into account such as station refueling outages and alternative equipment locations.

## **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 AH1-710 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 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.

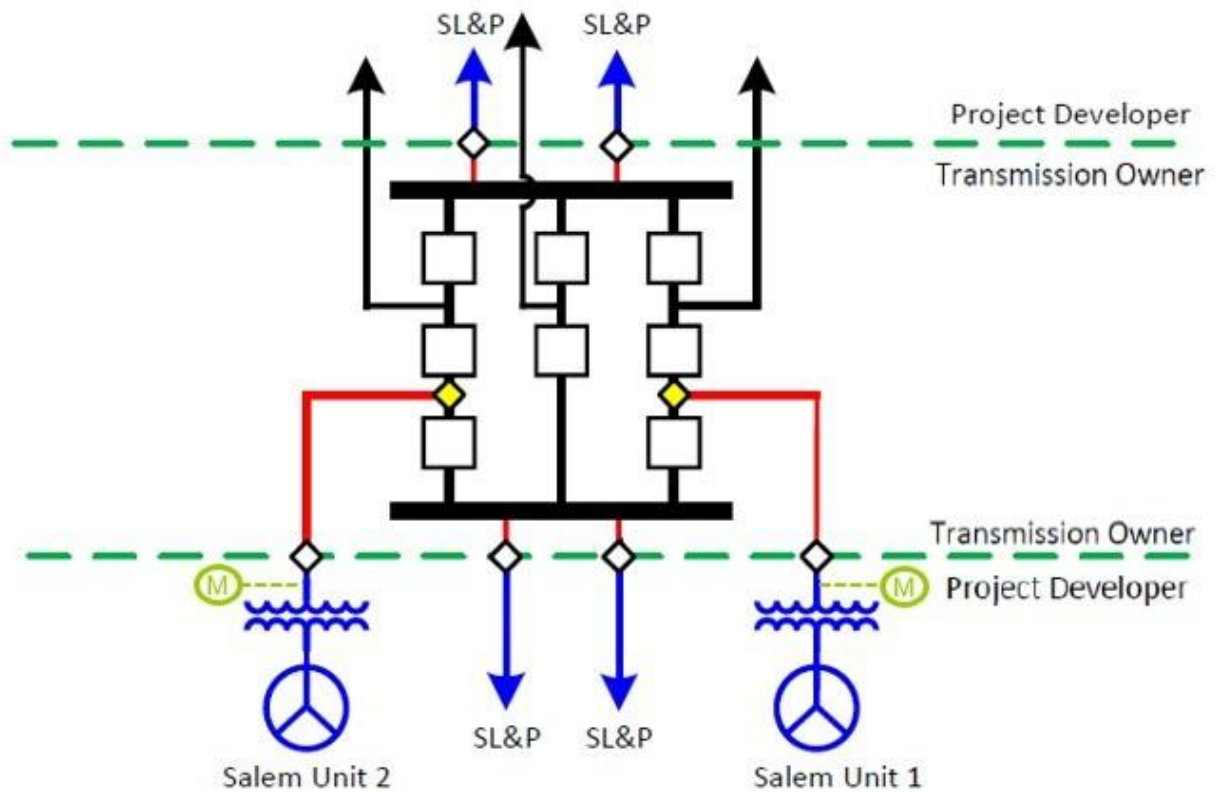
## **10. ENVIRONMENTAL AND PERMITTING**

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

## **C. APPENDICES**

Attachment #1: Single line Diagram for the Physical Interconnection

# SALEM 500kV



- Existing
- Transmission Owner Interconnection Facilities
- Project Developer Interconnection Facilities
- Point of Interconnection (POI)
- Point of Change in Ownership (PCO)
- Revenue Metering