

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

Region I

Report No. 50-311/78-42

Docket No. 50-311

License No. CPPR-53 Priority - Category B

Licensee: Public Service Electric and Gas Company

80 Park Place

Newark, New Jersey 07101

Facility Name: Salem Nuclear Generating Station, Unit 2

Inspection at: Hancocks Bridge, New Jersey

Inspection conducted: November 8, 1978

Inspectors: J. J. Kottan, Radiation Specialist

12/19/78
date signed

D. M. Gloski, Radiation Specialist (Co-op)

date signed

Approved by: J. P. Stohr, Chief, Environmental and
Special Projects Section, FF&MS Branch

date signed
12/19/78
date signed

Inspection Summary:

Inspection on November 8, 1978 (Report No. 50-311/78-42)

Areas Inspected: Routine, unannounced preoperational inspection of the licensee's chemical and radiochemical measurements program. Areas reviewed included: revisions of procedures to include Unit 2 for sampling and release of effluents, verification of capability of measuring radioactivity in effluents, and performance of analysis on a split effluent sample. The inspection involved 8 inspector-hours onsite by one NRC regional based inspector.

Results: Of the three areas inspected, no items of noncompliance were identified.

DETAILS

1. Persons Contacted

- *H. Midura, Station Manager
- *J. Stillman, Station QC Engineer
- *W. Gran, QA Staff Assistant
- *W. Treston, QA
- *M. Stocknoff, Technical Supervisor
- N. Allman, Engineer, Licensing and Environmental Division

* denotes those present at exit interview.

2. Procedures

The inspector reviewed the following procedures in the areas of effluent releases and analyses and sampling:

- PD-3.5.001 Sampling of the Reactor Coolant
- PD-3.5.036 Compositing of Liquid Samples
- PD-3.5.055 Waste Monitor Hold Up Tank Samples
- PD-3.5.057 Waste Hold Up Tank Sampling
- PD-3.5.061 Sampling the Containment Atmosphere
- PD-3.8.016 Gaseous Radwaste Release Calculations
- PD-3.5.062 Sampling the Plant Vent
- PD-3.9.017 Quality Control Requirements
- PD-3.8.015 Use of Liquid Waste Release Forms
- PD-3.5.012 Sampling the Gas Decay Tanks

The inspector noted that the procedures contain provisions for sampling from both Units 1 and 2. In addition the inspector noted that the Gaseous Radwaste Release Calculations Procedure PD-3.8.016 was written such that gas decay tank releases from both Unit 1 and 2 could occur simultaneously without exceeding the site technical specification release limits. The inspector had no further questions in this area. No items of noncompliance were identified.

3. Confirmatory Measurements

The inspector noted that the licensee would be using the laboratory counting equipment already being used for Unit 1 effluent sample analyses for Unit 2 effluent analyses also. The inspector noted that in a previous NRC inspection on May 2-5, 1978, NRC:I Inspection Report 50-272/78-10, the analytical results of actual effluent samples split between the licensee and the NRC were in agreement.

During the inspection on May 2-5, 1978, a liquid waste tank sample was split for the analysis of Sr-89 and Sr-90. The licensee, however, did not have his contracting laboratory perform this analysis. Therefore, during this inspection a liquid waste tank sample was split for the purpose of comparing the Sr-89 and Sr-90 analysis results. The results of this comparison will be documented in a subsequent inspection report after the results are received (78-42-01). The inspector had no further questions in this area. No items of noncompliance were identified.

4. Exit Interview

The inspector met with licensee representatives (denoted in Paragraph 1) at the conclusion of the inspection on November 8, 1978. The inspector summarized the purpose and scope of the inspection and the findings presented in the details of this report.

The licensee agreed to perform the Sr-89 and Sr-90 analysis and report the results to NRC:I.