

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

Region I

Report No. 50-311/79-05

Docket No. 50-311

License No. CPPR-53 Priority -- Category BI

Licensee: Public Service Electric and Gas Company

80 Park Place

Newark, New Jersey 07101

Facility Name: Salem 2

Inspection at: Hancocks Bridge, New Jersey

Inspection conducted: January 8-10, 1979

Inspectors: *L. W. Gage*

L. W. Gage, Reactor Inspector

1/24/79
date signed

P. D. Koltay

P. Koltay, Reactor Inspector

1/24/79
date signed

date signed

Approved by: *S. J. Ebnetter*

S. Ebnetter, Chief, Engineering Support
Section, RC&ES Branch

1/25/79
date signed

Inspection Summary:

Inspection on January 8-10, 1979 (Report No. 50-311/79-05)

Areas Inspected: Routine, unannounced inspection of the fire prevention/protection program including work-control procedures, quality-control surveillance, design-change controls, fire training and drills, emergency shutdown procedures, fire inspection reports, and facility inspection. The inspection involved 38 inspector-hours onsite by two NRC regional based inspectors.

Results: No items of noncompliance were identified.

DETAILS

1. Persons Contacted

Public Service Electric and Gas Company

- * Mr. S. Chawaga, Project Quality Control Engineer
- * Mr. J. DeStefano, Site Quality Assurance Engineer
- * Mr. R. Griffith, Sr. Staff Engineer, QA
- * Mr. E. Meyer, Project Quality Assurance Engineer - Salem
- Mr. W. Rieber, Fire Protection Sponsor Engineer
- * Mr. R. Scaletti, Safety Supervisor

United Engineers and Constructors, Inc.

- * Mr. D. Snyder, Project Engineer

U. S. Nuclear Regulatory Commission

- * Mr. L. Norrholm, Resident Inspector

* denotes those attending exit interview.

2. Work Control Procedures

The licensee stated that the "Fire Fighting and Organization Manual, Salem Generating Station," which was written for Salem 1, would also be applicable to Salem 2. The inspector reviewed Revision 1 of the manual. Paragraph 3.9 requires the issuance of a work-order stamp titled "Hot Work Authorized," to control welding and cutting during maintenance and modification activities. It also establishes the use of a fire watch during these activities.

No items of noncompliance were identified.

3. Quality Assurance Review

The inspector reviewed the draft of procedure QAI 2-13 (Revision 0), titled "QA Program for Fire Protection." This procedure, when issued with responsible departments identified, is intended to describe the operational quality assurance program for fire protection for the plant.

No items of noncompliance were identified.

4. Design-Change Controls

The inspector verified that the licensee's Specification No. 771304, (Revision 0), dated March 1, 1978, specifies the use of foamed-in-place flexible silicone rubber foam as the penetration sealant for electrical cables through designed fire barriers.

The installation of the penetration seals is being done by Insulation Consultants and Management Service, Inc. (ICMS). The inspector examined the Quality Assurance Manual of ICMS, QA-002, (undated). It includes Quality Control Procedures and Production Work Instructions, which appeared to be in accordance with the licensee's Specification No. 771304.

No items of noncompliance were identified.

5. Fire Brigade Training and Drills

The licensee stated that a single fire brigade would be used to protect Salem 1 and 2 when Salem 2 becomes operational. The inspector noted that the Salem 1 fire brigade drills and training were reviewed during the past 12 months (Reference: IE Report No. 50-272/78-12), and no items of noncompliance were identified.

6. Emergency Shutdown Procedures

The inspector verified that there were plant emergency procedures that provided alternate methods for accomplishing an orderly plant shutdown and cooldown in case of loss of normal coolant supply systems.

The procedures, covering Salem 1 and Salem 2, include the following Emergency Instructions:

<u>No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Date</u>
4.4	"Loss of Coolant"	7	12/6/78
4.5	"Loss of Reactor Coolant Pump and/or Flow"	2	3/7/78
4.12	"Loss of Feedwater"	1	4/24/78
4.14	"Service Water System Malfunction "	4	4/24/78

<u>No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Date</u>
4.17	"Partial Loss of Reactor Coolant"	2	4/24/78
4.22	"Loss of Residual Heat Removal Shutdown Cooling"	2	4/25/78

No items of noncompliance were identified.

7. Fire Inspection Report

The inspector reviewed the most recent insurance fire inspection report, titled "Property Loss Prevention Report," dated June 29 and 30, 1978. The inspection was conducted by M and M Protection Consultants for Nuclear Mutual Limited. The report did not contain any recommendations for changes/improvements to safety-related areas.

No items of noncompliance were identified.

8. Facility Inspection

The inspector examined the fire alarming and extinguishing equipment in the control room, switchgear (cable spreading) room, containment building, reactor fuel handling building, auxiliary building, turbine generator hall, battery rooms, and diesel-generator rooms. He also examined the outside equipment, including fire hydrants, service water intake structures, and fire pump house.

During his inspection of the service water intake structure, the inspector noted that the inspection tags on the portable fire extinguishers at station numbers 70 and 71 did not indicate that a December 1978 inspection had been made. (The most recent inspection was November 15, 1978). This is contrary to the licensee's "Construction Fire Protection Manual" (Revision 0), Section IV-C, titled "Procedure for Checking Portable Fire Extinguishers," which states: "...a monthly inspection...shall be made on each extinguisher...."

Following the completion of the inspection on January 11, 1979, the licensee (Mr. R. Scaletti) called the NRC IE:I office. He informed the inspector that plant records showed that the fire extinguishers in question were inspected by the licensee in December, 1978; they had neglected to indicate the inspection on the attached tags.

This is considered to be an unresolved item. The licensee's records will be examined by an NRC inspector during a subsequent inspection to determine if fire extinguishers are being inspected on a monthly basis. (79-05-01).

9. Unresolved Items

Unresolved items are matters about which more information is required in order to ascertain whether they are acceptable items, items of noncompliance or deviations. An unresolved item disclosed during the inspection is discussed in paragraph 8.

10. Exit Interview

The inspector met with licensee representatives (denoted in Paragraph 1) at the conclusion of the inspection on January 10, 1979. The inspector summarized the purpose and scope of the inspection and the findings. The licensee acknowledged the inspector's findings.