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UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
631 PARK AVENUE
KING OF PRUSSIA, PENNSYLVANIA 19406

Docket No. 50-311

SEP 19 1978

Public Service Electric and Gas Company
ATTN: Mr. T J. Martin
Vice President - Engineering and Construction
800 Park Place
Newark, New Jersey 07101

Gentlemen:

Subject: Inspection 78-30

This refers to the inspection conducted by Mr. H. Nicholas of this office on August 28-31, 1978 at Salem Nuclear Generating Station, Unit 2, Hancocks Bridge, New Jersey, of activities authorized by NRC License No. CPPR-53 and to the discussions of our findings held by Mr. Nicholas with Mr. E. Meyer of your staff at the conclusion of the inspection.

Areas examined during this inspection are described in the Office of Inspection and Enforcement Inspection Report which is enclosed with this letter. Within these areas, the inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector.

Within the scope of this inspection, no items of noncompliance were observed.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and the enclosed inspection report will be placed in the NRC's Public Document Room. If this report contains any information that you (or your contractor) believe to be proprietary, it is necessary that you make a written application within 20 days to this office to withhold such information from public disclosure. Any such application must be accompanied by an affidavit executed by the owner of the information, which identifies the document or part sought to be withheld, and which contains a statement of reasons which addresses with specificity the items which will be considered by the Commission as listed in subparagraph (b) (4) of Section 2.790. The information sought to be withheld shall be incorporated as far as possible into a separate part of the affidavit. If we do not hear from you in this regard within the specified period, the report will be placed in the Public Document Room.

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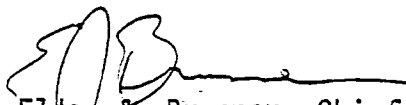
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Should you have any questions concerning this inspection, we will be pleased to discuss them with you.

Sincerely,



Eldon J. Brunner, Chief
Reactor Operations and Nuclear
Support Branch

Enclosure: Office of Inspection and Enforcement Inspection
Report Number 50-311/78-30

cc w/encl:

E. N. Schwalje, Manager - Quality Assurance

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

Region I

Report No. 50-311/78-30

Docket No. 50-311

License No. CPPR-53 Priority -- Category B1

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: August 28-31, 1978

Inspectors: *H. Nicholas for*
H. Nicholas, Reactor Inspector

9/15/78
date signed

date signed

date signed

Approved by: *D. L. Caphton*
D. L. Caphton, Chief Nuclear Support
Section No. 1, RO&NS Branch

9/15/78
date signed

Inspection Summary:

Inspection on August 28-31, 1978 (Report No. 50-311/78-30)

Areas Inspected: Routine unannounced inspection by a regional based inspector of the overall preoperational test program; preparations for Integrated Hot Functional Test, including Hot Functional Test Procedure, supporting procedures for HFT, procedure status and prerequisites for HFT; preoperational test procedures review and verification; and followup on previous unresolved and open items. The inspection involved 35.5 inspector-hours on site by one NRC regional based inspector.
Results: No items of noncompliance were identified.

DETAILS

1. Persons Contacted

Public Service Electric and Gas Company

*Mr. J. Chawaga, Project QC Head
Mr. J. Cox, Senior Construction Engineer
*Mr. F. Diaferio Jr., QC T&SU Group Head
*Mr. R. Griffith Sr., Senior Staff Engineer
Mr. C. Johnson, Startup Engineer
*Mr. E. Meyer, Project QA Head
*Mr. D. Tauber, QA Engineer
Mr. R. Weltman, QA/QC Coordinator

United Engineers and Constructors, Inc.

Mr. N. Bender, Assistant Lead Test Engineer
*Mr. S. Page, Lead Test Engineer
*Mr. R. Phelps, Superintendent Field QC
*Mr. E. Walsh, Assistant Superintendent Field QC

USNRC

Mr. L. Norrholm, Resident Reactor Inspector

*denotes those present at the exit interview.

2. Licensee Action on Previous Inspection Findings

The inspector addressed the following items with the licensee's representatives:

Inspector Followup Item (311/77-25-02). The development of Operating Instructions for Unit 2 prior to Hot Functional Testing. The startup group has submitted a list of OI's needed for HFT to Operations and they are presently being written. This item will remain open and has been turned over to the Resident Reactor Inspector for followup.

Unresolved Item (311/78-01-02). Resolution of switching sequence of air compressors. This item is being addressed in SUP 6c which is being written and will be reviewed on a subsequent inspection. This item will remain open.

Unresolved Item (311/78-12-10). The ability to supply emergency lighting to the shutdown areas outside of Control Room, the Emergency Generator Rooms, and the Control Room. This item has been addressed by the licensee's representatives and is to be implemented into the startup program. This item will remain open and be reviewed on a subsequent inspection.

3. Preoperational Test Program

The major thrust of this inspection centered on preparations for the Integrated Hot Functional Test scheduled for October 4, 1978.

Areas reviewed by the inspector were:

- Hot Functional Test Procedure,
- Supporting Procedures for HFT,
- HFT Procedure Status, and,
- Prerequisites for HFT.

a. The inspector reviewed the following draft copies of procedures in support of and including, Hot Functional Test:

- SUP 50.0 Hot Functional Test
- SUP 50.01 Reactor Coolant System Thermal Expansion
- SUP 50.02 Reactor Coolant System Leakage Test-Hot
- SUP 50.03 Pressurizer Power Operated Relief Valve Test.
- SUP 50.04 Incore Thermocouple - RTD Cross
- SUP 50.06 Pressurizer Pressure and Level Control
- SUP 50.08 Steam Generator Safety Valve Test
- SUP 50.09 A Atmospheric Steam Dump Control-Hot
- SUP 50.09 B Condenses Steam Dump System-Hot
- SUP 50.11 Chemical and Volume Control System-Hot
- SUP 50.15 Control Room Inaccessability

b. The following procedures are also needed to support HFT, and have not been issued for review, as of this date:

- SUP 50.05 Primary Sampling System
- SUP 50.07 Solid System Pressure Control
- SUP 50.10 Steam Generator Blowdown
- SUP 50.12 Component Cooling System-Hot
- SUP 50.13 Initial Turbine Roll-Pump Heat
- SUP 50.14 Auxiliary Feed System Performance Test
- SUP 50.16 Safety Injection System Precritical Test
- SUP 50.17 Safety Injection System Check Valve Test
- SUP 50.18 Reactor Coolant Pump Motor Starting Test

- c. In review of the Hot Functional Test procedure, a previously identified Inspector Followup Item was noted regarding the development of Operating Instructions for Unit 2 prior to Hot Functional Testing. (311/77-25-02). One of the prerequisites of the HFT procedure calls for Operating Instructions to support the Integrated Hot Functional Test.

The OI's needed to support HFT have been identified and are now being written and/or reviewed.

- (1) Forty-four are needed for performance of testing,
- (2) Fourteen are needed as prerequisites to testing, and,
- (3) Five will be used as references.

This item will remain open and will be followed up during future inspections.

- d. In review of the Hot Functional Test Procedure, the inspector noted that as a prerequisite, forty three Startup Procedures (SUPS) and one Detailed Test Procedure (DTP) will have to be reviewed prior to the HFT. The inspector was made aware of the fact that many of these SUP's are in preparation or are out for comments.

e. Findings

It was noted by the inspector that this was a preliminary review of the draft copies of these procedures, and that a detailed review will be made of the approved procedures on a subsequent inspection.

The inspector expressed his concern relative to receiving all needed procedures in adequate time for our reviews.

4. Preoperational Test Procedures Review and Verification

- a. The following procedures were reviewed:

- SUP 31.1A Rev. 0 Approved July 19, 1978.
2A Diesel Controls-Alarms and Auxiliaries.
- SUP 31.3 Rev. 0 Approved June 27, 1978.
Emergency Power Operational Test-Diesel Fuel Oil Storage and Transfer System.

The inspector ascertained by review of the above procedures that they are consistent with regulatory requirements, guidance and licensee commitments.