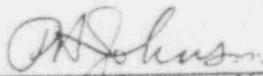


U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-344/93-12
Docket No. 50-344
License No. NPF-1
Licensee: Portland General Electric Company
121 S. W. Salmon Street
Portland, Oregon 97204
Facility Name: Trojan Nuclear Plant
Inspection at: Rainier, Oregon
Inspection Conducted: August 17 - September 29, 1993
Inspector: J. F. Melfi, Resident Inspector

Approved By:


P. H. Johnson, Chief
Reactor Projects Section 1

10/22/93
Date Signed

Summary:

Inspection on August 17 - September 29, 1993 (Inspection Report No. 50-344/93-12)

Areas Inspected: Routine announced, resident inspection of operational safety verification, maintenance, surveillance, and follow-up of previously identified items. Inspection procedures 62703, 647C4, 71707, 92700 and 92701 were used as guidance during the conduct of the inspection.

Safety Issues Management System (SIMS) Items: None

Results:

General Conclusions and Specific Findings:

The licensee continued plant activities appropriate to the permanent shutdown condition of the plant. The licensee continued to deactivate systems no longer required by existing plant conditions.

Significant Safety Matters: None

Summary of Violations and Deviations: None

DETAILS

1. Persons Contacted

a. Portland General Electric

J. E. Cross, Vice President and Chief Nuclear Officer
S. M. Quennoz, Plant General Manager
D. L. Nordstrom, General Manager, Nuclear Oversight
*T. D. Walt, General Manager, Technical Functions
*C. P. Yundt, Project Manager, Special Projects
H. K. Chernoff, Manager, Licensing
*L. K. Houghtby, Manager, Plant Support
M. B. Lackey, Manager, Planning and Control
*J. P. Sullivan, Nuclear Plant Engineering Manager
*J. M. Mihelich, Manager, Technical Services
T. O. Meek, Manager, Personnel Protection
J. A. Vingerud, Electrical Maintenance Manager
J. D. Westvold, Manager, Quality Assurance
S. A. Schneider, Manager, Operations
J. A. Kirkebo, Assistant General Manager, NPE
C. M. Dieterle, Supervisor, Individual Plant Examination
*B. R. Hugo, Compliance Engineer
*M. H. Megehee, Compliance Engineer

b. Oregon Department of Energy

A. Bless, Resident Safety Manager
V. Sarte, Resident Inspector

The inspector also talked with other licensee employees during the course of the inspection. These included shift managers, certified fuel handlers and auxiliary operators, maintenance personnel, plant technicians and engineers, and quality assurance personnel.

*Denotes those attending the exit interview.

2. Plant Status

The plant remained in the permanently defueled condition. The licensee continued to make progress in deactivating systems. At the end of the inspection reporting period, the licensee had deenergized 55 systems and was planning to deactivate another nine systems (e.g., radwaste, portions of the chemical and volume control system) by the end of the year. At the end of the inspection reporting period, 264 people remained onsite.

3. Operational Safety Verification (71707)

During this inspection period, the inspector observed and examined plant activities to verify the safety of the licensee's facility. The inspector observed these activities on a daily, weekly or biweekly basis.

The inspector observed control room activities daily to verify the licensee's adherence to limiting conditions for operation as prescribed in the facility Technical Specifications. The inspector examined logs, instrumentation, recorder traces, and other operational records to obtain information on plant conditions, trends and compliance with regulations. On occasions when a shift turnover was in progress, the inspector observed turnover of plant information to determine that on-shift operators relayed pertinent information to oncoming shift personnel.

Each week the inspector toured accessible areas of the facility to observe the following items:

- a. General plant and equipment conditions
- b. Maintenance requests and repairs
- c. Fire hazards and fire fighting equipment
- d. Ignition sources and flammable material control
- e. Conduct of activities according to the licensee's administrative controls and approved procedures
- f. Plant housekeeping and cleanliness
- g. Radioactive waste systems
- h. Proper storage of compressed gas bottles

Each week the inspector conversed with certified fuel handlers in the control room, and with other plant personnel. The discussions centered on pertinent topics relating to general plant conditions, procedures, security, training and other topics related to in-progress work activities.

The inspector periodically observed radiological protection practices to determine whether the licensee had implemented them in conformance with facility policies and procedures and according to regulatory requirements. The inspector verified that health physics supervisors and technicians conducted plant tours to observe activities in progress and were aware of significant plant activities, particularly those related to radiological conditions and/or challenges. ALARA considerations were found to be an integral part of each RWP (Radiation Work Permit).

The inspector conducted routine inspections of selected activities of the licensee's radiological protection program. During inspection activities and periodic tours of plant areas, the inspector verified proper use of personnel monitoring equipment, observed individuals leaving the radiation controlled area and signing out on appropriate RWP's, and observed the posting of radiation areas and contaminated areas. The inspector assessed the awareness of significant plant activities of health physics supervisors and engineers through conversations.

No violations or deviations were identified.

4. Maintenance (62703)

The inspector observed portions of and reviewed documentation associated with the licensee's work on the A emergency diesel generator (EDG). The inspector observed or reviewed the following maintenance requests (MRs):

<u>MR Number</u>	<u>Subject</u>
92-07303	EDG N Bank Air Start Pressure Regulator Reset
92-02411	Calibration of TS-3851X, EDG Inlet Temperature Switch
93-00938	Calibration of EDG Air Start Pressure Indicator
92-04635	EDG annual inspection

The licensee's work was done appropriately. No violations or deviations were identified.

5. Fire Protection Program (64704)

The inspector assessed the licensee's fire protection program and procedures to determine if they met regulatory requirements. During this inspection reporting period, the licensee was anticipating approval of a revised fire protection program consistent with the facility's shutdown status. The inspector looked at the licensee's fire brigade training and equipment, transient combustible control, housekeeping practices and technical specification surveillances.

Fire Brigade Training and Equipment

The inspector reviewed training records and inspected three lockers where fire protection equipment is stored. From the review of records, the inspector concluded that the licensee was training the fire brigade adequately. The licensee had strategies for fighting fires, and the brigade composition appeared appropriate. The fire protection equipment in the lockers (e.g., hoses, nozzles, axes, etc.) was in good condition and all specified equipment was present.

Transient Combustible Control/Housekeeping

The licensee's procedures for transient combustibles and housekeeping are provided in TPP 13-7, "Fire Protection Program," and TPP 13-8, "Transient Combustible Program." In discussions with the licensee and walk-throughs of the plant, the inspector concluded that transient combustibles were controlled and housekeeping was adequate.

Surveillances

The inspector verified that the licensee was testing the fire pump and valves according to their surveillance program. During this review, the inspector concluded that the licensee was also testing remaining detection systems periodically.

Other Fire Protection Program Changes

To reduce the threat of a fire, the licensee was removing combustibles (e.g., lubricating oil, carbon filters) from components within the fire areas. The licensee was also deenergizing electrical systems to reduce

the attendant fire hazard. On October 1, 1993, the licensee changed to a three-man fire brigade from the previous five-man brigade after changes to the fire protection plan were approved by the NRC staff.

The inspector concluded that the licensee's fire protection program was adequate. No violations or deviations were identified.

6. Event Followup (93702, 62703, 92701)

Spent Fuel Pool (SFP) Boraflex Shielding

Due to the concerns generated in NRC Information Notice (IN) 93-70, "Degradation of Boraflex Neutron Absorber Coupons," the inspector assessed Trojan's SFP Boraflex monitoring program. IN 93-70 discussed identified instances where there was significant loss of Boraflex in high-density fuel racks at the Palisades Nuclear Plant. The licensee for the Palisades facility found that Boraflex coupons had lost significant amounts (up to 90 percent) of their Boraflex. Palisades determined, however, that their Boraflex test samples had come from different lots of material than the material in the high-density racks. Samples from the same material lot as the SFP racks did not show a loss of Boraflex.

The inspector reviewed the licensee's monitoring program for the Trojan Plant, as described in Periodic Engineering Test (PET) 6-1, "Reactor Vessel Material and Spent Fuel Rack Absorber Surveillance Program." The inspector noted that the licensee had inspected SFP coupons according to their commitments, that no significant degradation had occurred, and that the material lot numbers of the coupons were the same lot numbers as the SFP racks.

No violations or deviations were identified.

7. Follow-up of Licensee Actions on Previous Enforcement Item (92702)

Enforcement Item 93-06-01 (Closed), "Failure to Properly Secure Ladders"

During earlier tours of the spent fuel pool (SFP) area, the inspector found several portable ladders that were not properly secured. These portable ladders were hung horizontally on two scaffolding tubes approximately six feet above and two feet from the splash shields that surround the SFP. This arrangement was cited as a violation of Trojan Plant Procedure (TPP) 13-5, "Control of In-Plant Unsecured Equipment/ Material."

When this situation was identified to the shift manager, he took immediate action to correct the problem. As further corrective action, the licensee revised the procedure, discussed this situation with radwaste workers who temporarily store material in this area, and removed all equipment from the periphery of the SFP. Subsequent walk-throughs by the resident inspector verified that the licensee maintained the SFP area according to TPP 13-5.

Based on the licensee's actions, this item is closed.

8. Employee Concerns Program

The inspector assessed the status and characteristics of the licensee's employee concerns program using Temporary Instruction (TI) 2500/28, "Employee Concerns Program," as guidance.

The licensee's concerns program is described in Trojan Plant Procedure (TPP) 10-2, "Excellence Response Program." Trojan's Excellence Response Program (ERP) applies to all employees (including contractors) who desire to confidentially raise safety or reliability concerns. As part of the exit process, the licensee also provides an opportunity for persons leaving the site to raise safety concerns.

The licensee has one person onsite who monitors the program as a collateral duty. This person is independent of line management and reports to the Manager of Nuclear Oversight. If required, the licensee can use third-party consultants to evaluate concerns. Licensee representatives indicated that very few new concerns have been received from plant personnel since permanent closure of the plant.

The inspector concluded that the licensee's concerns program was functioning properly. No violations or deviations were identified.

9. Exit Interview (30703)

The inspector met with the licensee representatives (denoted in paragraph 1) on October 14, 1993, and with licensee management throughout the inspection period. During these meetings the inspector summarized the scope and findings of the inspection activities.

The licensee did not identify as proprietary any of the information reviewed by or discussed with the inspector during the inspection.