

50-344/79-08

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

REGION V

Report No. 50-344/79-08

Docket No. 50-344 License No. NPF-1 Safeguards Group _____

Licensee: Portland General Electric Company
121 S. W. Salmon Street
Portland, Oregon 97204

Facility Name: Trojan

Inspection at: Rainier, Oregon

Inspection conducted: April 2-30, 1979

Inspectors: M. H. Maimros hm 5/16/79
M. H. Maimros, Resident Reactor Inspector Date Signed

Date Signed

Date Signed

Approved By: D. M. Starnberg 5/16/79
D. M. Starnberg, Chief, Reactor Project Section 1 Date Signed
Reactor Operations and Nuclear Support Branch

Summary:

Inspection on April 2-30, 1979 (Report No. 50-344/79-08)
Areas Inspected: Routine inspections by the Resident Inspector of plant operations, physical protection, surveillance testing, calibration, procurement, review and audit, new fuel receipt inspections, and followup on licensee event reports and previously identified items. The inspection involved 71 inspector-hours by the NRC Resident Inspector.

Results: No deviations were identified. One apparent item of non-compliance (infraction - failure to perform technical specification surveillance, Paragraph 2) was identified as related to facility operation.

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DETAILS

i. 1. Persons Contacted

- *B. D. Withers, Plant Superintendent
- *F. H. Lamoureux, Assistant Plant Superintendent
- R. P. Barkhurst, Operations Supervisor
- D. L. Bennett, Instrument and Control Supervisor
- C. J. Fleming, Administrative Supervisor
- D. F. Kielblock, Training Supervisor
- W. S. Orser, Engineering Supervisor
- J. C. Perry, Administrative Engineer
- L. W. Quinn, Chemistry Supervisor
- J. D. Reid, Quality Assurance Supervisor (Acting)
- C. A. Olmstead, Maintenance Supervisor
- T. D. Walt, Radiation Protection Supervisor

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

*Denotes those attending the exit interviews.

2. Plant Operations

a. Facility Logs and Operating Records

The inspector examined the log entries contained in the control room log and the shift supervisor's log for facility operations performed during April, 1979. The log entries were found to have been made consistent with the requirements of the facility administrative orders and to accurately reflect the operational status of the facility. Facility logs were reviewed by applicable staff members and operating orders issued by the operations supervisor did not conflict with the intent of the technical specification requirements. Sufficient information was contained in the control room log and the shift supervisor's log to identify potential problems and to verify compliance with technical specification reporting requirements and limiting conditions for operation.

During the review of the control room log on April 11, 1979, the inspector found that no entry existed to indicate that a surveillance test required by Technical Specification 3.8.1.1 had been performed to verify the operability of the East Emergency Diesel Generator within one hour following the

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removal of the West Emergency Diesel Generator for maintenance purposes. Discussion with the operator revealed that the operator had failed to perform the test as required. Facility procedures clearly require the performance of the surveillance test and a review by the inspector of facility records found that proper testing of the Emergency Diesel Generators under similar conditions had been performed as required by Technical Specification 3.8.1.1 and properly recorded in the control room log. A new facility procedure, AO-3-14, "Safety-Related Equipment Outages" was issued on April 24, 1979, which ensures the proper scheduling and performance of surveillance tests on redundant equipment before removing safety-related equipment from service. It is the conclusion of the inspector that this item of noncompliance to Technical Specification 3.8.1.1 was attributable to personnel error and that the issuance of AO-3-14 should preclude the recurrence of a similar situation. The licensee intends to submit a licensee event report describing this event and the corrective action taken.

b. Facility Tour and Observation of Operations

Tours of the facility were made by the inspector in the control building, reactor auxiliary building, fuel building, intake structure, and the turbine building. During the tours, assessments of equipment and plant conditions were made with the following observations:

- (1) Instrumentation for monitoring the status of the plant was operating.
- (2) Radiation controls were properly established.
- (3) Piping systems in operation did not show any signs of excessive vibration or leakage.
- (4) Detailed system alignment and operability of the auxiliary feedwater system, containment spray system and the liquid radioactive waste system were verified by the inspector.
- (5) Control room observations verified that the facility manning was proper and discussions with shift supervisors and control operators revealed that they were cognizant of the effect of annunciated alarms on plant operations. Shift turnovers were found to be performed in accordance with the administrative orders and good watchstanding.
- (6) Routine monitoring of facility liquids for gross radioactivity was observed by the inspector. The samples were analyzed consistent with facility procedures.
- (7) The facility tripped from approximately 85% of full power on April 14, 1979, when the feedwater flow controller for the "A" steam generator caused a lo-lo steam generator

reactor shutdown. Following repairs the facility was returned to normal power operation within 24 hours. During the preparations for startup the main steam isolation valves (MSIV's) failed to activate from the open to the shut position during the performance of the surveillance test to determine valve actuation time from the open to the shut position. Adjustment to the valve packing freed the valves and acceptable valve operation was attained. The failure of the MSIV's to shut was promptly reported to the NRC and a report of the incident will be submitted by the licensee.

c. Licensed Operator Meeting

On April 19, 1979, representatives from the NRC directly briefed licensed facility operators on the significant aspects of the Three Mile Island reactor incident and explained the concerns expressed in I.E. Bulletin No. 79-06A issued to Westinghouse nuclear power plants. On April 25, 1979, the inspector held a similar meeting for the licensed operators not able to attend the meeting on April 19, 1979.

One item of noncompliance was identified as described above (Item a). No deviations were identified.

3. Physical Protection

Based on discussions with licensee representatives, observations, and examinations of facility procedures, the inspector verified that the measures employed for the physical protection of the facility were consistent with the requirements of the physical security plan, applicable administrative orders, and regulatory requirements. Specific aspects of physical protection examined by the inspector included the following:

- a. Protected area and vital area barriers were verified to be properly closed and locked.
- b. Personnel provided access to the protected and vital areas were properly authorized, identified and badged. Personnel, vehicles, and packages were searched as required by the physical security plan.
- c. Escorts were provided for personnel and vehicles when required inside the protected area.
- d. The security organization for each shift was found to be properly organized and manned.

POOR ORIGINAL

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- e. Shift turnover, shift routines, and communications were accomplished in accordance with the requirements of the physical security plan and applicable administrative orders.

No items of noncompliance or deviations were identified.

4. Surveillance Testing

The inspector observed the surveillance testing of containment vertical tendons, facility batteries, and core power distribution. Observations made by the inspector included the following:

- a. The test prerequisites were met.
- b. Applicable limiting conditions for operation were met.
- c. The requirements of the test procedure were adhered to by the personnel performing the test.
- d. The test was performed by qualified personnel.
- e. The test results were reviewed by the licensee and found to be within the acceptance criteria specified in the technical specifications.

No items of noncompliance or deviations were identified.

5. Followup on Previous Inspection Findings

The following item was examined by the inspector with the results indicated.

(79-07-01, closed) The licensee revised facility procedure, POT 5-1, to include the revised surveillance testing requirements for the auxiliary feedwater pumps as prescribed to license amendment No. 36.

No items of noncompliance or deviations were identified.

6. Licensee Event Report (LER) Followup

The circumstances and corrective action described in LER No. 79-02 regarding the surveillance testing of the automatic isolation feature of the control room ventilation system were examined by the inspector. The inspector verified that manual schedules were prepared to assure that surveillance tests on all facets of the control room ventilation system will be accomplished at the required testing frequency. The LER had been reviewed by the licensee and was submitted to the NRC within the required reporting interval.

No items of noncompliance or deviations were identified.

7. Procurement

The inspector toured the licensee's warehouse facility to verify that safety-related material and spare parts were being handled, stored, and identified in accordance with the requirements of the licensee's quality assurance procedures. The inspector verified the following:

- a. Safety-related material and spare parts received onsite had been inspected by qualified personnel.
- b. Records of receipt inspections were examined and found to be complete.
- c. Storage and packaging requirements were defined in the purchase requisition and were being met during the storage of the applicable items.
- d. Preventive maintenance of stored items as applicable, was being performed by warehouse personnel.
- e. Material was identified to permit traceability to on-file quality certification documents.
- f. Limited shelf life items were identified and controlled.

No items of noncompliance or deviations were identified.

8. Receipt of New Fuel

Based on an examination of facility procedures and direct observation of new fuel handling activities, the inspector verified that the receipt of new fuel was performed consistent with regulatory requirements and facility procedures. Observations by the inspector included the following:

- a. The receipt of new fuel was performed in accordance with the procedural requirements described in Volume 8 of the Plant Operating Manual, "Fuel Handling Procedures."
- b. Shipping containers were received with the seals intact and were found free of any damage due to handling during transit.
- c. Fuel assemblies were removed from the containers, inspected and stored in the new fuel storage racks.
- d. Each fuel assembly was identified by an assembly serial number and a fuel cycle identification number.
- e. No deficiencies have been identified in the new fuel received at the site.

No items of noncompliance or deviations were identified.

9. Calibration

The licensee's program for the calibration of test and measuring equipment was examined by the inspector. The records of several instruments used as standards for the calibration of plant instrumentation were reviewed and found to accurately document the calibration status of the test equipment. For each test instrument the inspector verified that the calibration frequency had been met, the accuracy of the calibration was traceable to the National Bureau of Standards and that the equipment was properly stored and controlled in accordance with facility procedures.

No items of noncompliance or deviations were identified.

10. Review and Audit

The inspector attended a Plant Review Board meeting on April 23, 1979, as a nonparticipant to observe the conduct of the meeting. The inspector found the meeting to have been conducted in accordance with the applicable technical specification requirements pertaining to membership, qualifications, quorum and the review process.

No items of noncompliance or deviations were identified.

11. Exit Interview

The inspector met with licensee representatives (denoted in Paragraph 1) on April 6, 13, 20, and 30, 1979. During these meetings the inspector summarized the scope and findings of the inspection. The apparent item of noncompliance discussed in Paragraph 2 was discussed.

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