U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-344/82-30

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: October 4-29, 1982

Inspectors: Dennis J. Willett 11-12-82
M. H. Malmros, Senior Resident Inspector Date Signed

_____ _____
Date Signed

Approved by: R T Dodds 11/12/82
R. T. Dodds, Chief, Reactor Projects Section 1 Date Signed
Reactor Projects Branch No. 1

Summary:

Inspection on October 4-29, 1982 (Report 50-344/82-30)

Areas Inspected: Routine inspections of plant operations, surveillance testing, maintenance, security, environmental monitoring, and follow-up on licensee event reports. The inspection involved 70 inspector-hours by the NRC Senior Resident Inspector.

Results: No items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

*C. P. Yundt, General Manager
*C. A. Olmstead, Manager, Operations and Maintenance (Acting)
R. P. Schmitt, Manager, Technical Services (Acting)
J. D. Reid, Manager, Plant Services
D. R. Keuter, Operations Supervisor
D. W. Swan, Maintenance Supervisor
A. S. Cohlmeyer, Engineering Supervisor (Acting)
G. L. Rich, Chemistry Supervisor
T. O. Meek, Radiation Protection Supervisor
R. E. Susee, Training Supervisor
D. L. Bennett, Control and Electrical Supervisor
P. A. Morton, Quality Assurance Supervisor
R. W. Ritschard, Security Supervisor
H. E. Rosenbach, Material Control Supervisor
J. K. Aldersebaes, Manager, Nuclear Maintenance and Construction

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. Operational Safety Verification

During the inspection period, the inspector observed and examined activities to verify the operational safety of the licensee's facility. The observations and examinations of those activities were conducted on a daily, weekly, or biweekly basis.

On a daily basis, the inspector observed control room activities to verify the licensee's adherence to limiting conditions for operations as prescribed in the facility technical specifications. Logs, instrumentation, recorder traces, and other operational records were examined to obtain information on plant conditions, trends, and compliance with regulations. On the occasions when a shift turnover was in progress, the turnover of information on plant status was observed to determine that all pertinent information was relayed to the oncoming shift.

During each week, the inspector toured the 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 in accordance with the licensee's administrative controls and approved procedures.

f. Interiors of electrical and control panels.

g. Implementation of the licensee's physical security plan.

h. Radiation protection controls.

i. Plant housekeeping and cleanliness

j. Radioactive waste systems.

The licensee's equipment clearance control was examined weekly by the inspector to determine that the licensee complied with technical specification limiting conditions for operation, with respect to removal of equipment from service. Verification was achieved by selecting one safety-related system or component weekly and verifying proper breaker, switch, and valve positions, both for removing the system or component from service and returning it to service.

During each week, the inspector conversed with operators in the control room, and other plant personnel. The discussions centered on pertinent topics relating to general plant conditions, procedures, security training, and other topics aligned with the work activities involved. Shift turnover by licensed personnel was observed by the inspector.

The inspector examined the licensee's nonconformance reports to confirm the deficiencies were identified and tracked by the system. Identified nonconformances were being tracked and followed to the completion of corrective action.

Logs of jumpers, bypasses, caution, and test tags were examined by the inspector. No jumpers or bypasses appeared to have been improperly installed or removed or to have conflicted with the technical specifications. Implementation of radiation protection controls was verified by observing portions of area surveys being performed, and by examining radiation work permits currently in effect to see that prescribed clothing and instrumentation were available and used. Radiation protection instruments were also examined to verify operability and calibration status.

Each week the inspector verified the operability of a selected engineered safety features (ESF) train. This was done by direct visual verification of the correct position of valves, availability of power, cooling water supply, system integrity, and general condition of the equipment. ESF trains verified to be operable during the inspection period included the safety injection system and the diesel fuel oil system.

No items of noncompliance or deviations were identified.

3. Maintenance

Maintenance activities involving preventive and corrective maintenance were observed by the inspector during the inspection period. Observations by the inspector verified that proper approvals, system clearances, and tests of redundant equipment were performed, as appropriate, prior to maintenance of safety-related systems or components. The inspector verified that qualified personnel performed the maintenance using appropriate maintenance procedures. Replacement parts were examined to determine the proper certification of materials, workmanship, and tests. During the actual performance of the maintenance activity, the inspector checked for proper radiological controls and housekeeping, as appropriate. Upon completion of the maintenance activity, the inspector verified that the component or system was properly tested prior to returning the system or component to service. During the inspection period, maintenance activities observed were associated with the diesel driven fire water pump, service water booster pump, and plant instrumentation.

No items of noncompliance or deviations were identified.

4. Surveillance

The surveillance testing of safety-related systems was witnessed by the inspector. Observations by the inspector included verification that proper procedures were used, that test instrumentation was calibrated, and that the system or component being tested was properly removed from service if required by the test procedure. Following completion of the surveillance tests, the inspector verified that the test results met the acceptance criteria of the technical specifications and were reviewed by cognizant licensee personnel. The inspector also verified that corrective action was initiated, if required, to determine the cause for any unacceptable test results and to restore the system or component to an operable status consistent with the technical specification requirements.

Surveillance tests witnessed during the inspection period were associated with the nuclear instrumentation and radiation monitoring systems.

No items of noncompliance or deviations were identified.

5. Licensee Event Report (LER) Follow-up

The circumstances and corrective action described in LERs 82-16, 82-17, and 82-18 were examined by the inspector. The inspector found that each report had been reviewed by the licensee and reported to the NRC within the proper reporting interval. The corrective actions for each event were as follows:

LER 82-16 (Closed): The pressurizer safety set point was properly reset as verified by the performance of safety lift set point tests in accordance with Procedure MP-5-1.

LER 82-17 (Closed): The concentrate pump discharge valves were repaired under Maintenance Request Numbers 82-3796 and 82-3797. The boric acid storage tanks were sampled and found to contain the proper concentration and volume of boric acid solution.

LER 82-18 (Closed): No specific cause has been identified which can be attributed to the intermittent failure of the steam pressure transmitter (PT-524). Shop tests to reproduce the failure under monitored conditions have been unsuccessful. Discussions with the transmitter manufacturer have not resulted in the identification of a specific cause for the momentary failed high condition. Operation of the pressure transmitter has been normal since being returned to service on September 18, 1982.

No items of noncompliance or deviations were identified.

6. Environmental Monitoring

The inspector observed the collection of air samples and precipitation samples which are part of the licensee's radiological environmental monitoring program. The samples were collected and processed in accordance with appropriate licensee procedures. Results of the radiological monitoring program have been reported to the NRC on an annual basis as required by the facility technical specifications.

No items of noncompliance or deviations were identified.

7. Exit Interview

The inspector met with licensee representatives (denoted in paragraph 1) on October 29, 1982. During this meeting the inspector summarized the scope and findings of the inspection.