

U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-344/86-01

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: January 6-10, 1986

Inspector:

David B. Pereira
D. B. Pereira, Reactor Inspector

1/27/86
Date Signed

Approved By:

R. T. Dodds
R. T. Dodds, Chief
Reactor Project Section 1

1/28/86
Date Signed

Summary:

Inspection During the Period of January 6-10, 1986 (Report No. 50-344/86-01)

Areas Inspected: Routine, unannounced inspection of the Non-Licensed Staff Training Program, Records Program, and Receipt, Storage and Handling of Equipment and Materials Program. The inspection involved 38 hours onsite by one NRC inspector. The inspection modules followed were: Non-Licensed Staff Training (41700), Records Program (39701B), and Receipt, Storage and Handling of Equipment and Materials Program (38702B).

Results: No items of noncompliance or deviations were identified.

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DETAILS

1. Persons Contacted

- *W. S. Orser, General Manager
- *C. A. Olmstead, Manager, Quality Assurance Department
 - J. D. Reid, Manager, Plant Services
 - D. L. Bennett, Supervisor, Control and Electrical
 - D. W. Swan, Supervisor, Maintenance
- *C. H. Brown, Operations Branch Manager, Quality Assurance
 - A. Puzy, Office Supervisor
- *S. Bauer, Engineer, Nuclear Safety and Regulation Department
- *H. F. Moomey, Trojan Resident, Oregon Department of Energy
- *S. Richards, Trojan Resident, U. S. Nuclear Regulatory Commission
 - D. McCormick, Instrument and Control Technician
 - T. Gray, Instrument and Control Technician
 - R. Lane, Instrument and Control Technician
 - R. Williams, Mechanical Maintenance
 - L. Vanover, Mechanical Maintenance
 - G. Hilsonhoff, Mechanical Maintenance
 - M. Olsen, Radiation Technician
 - D. Seely, Radiation Technician
 - P. Dodge, Secretary
 - L. Thorpe, Maintenance
 - C. Allen, Quality Control Inspector
 - R. Phillips, Quality Control Inspector

*Denotes attendance at exit interview conducted at Trojan Nuclear Plant on January 10, 1986.

2. Non-Licensed Staff Training Program

The overall training and retraining activities for non-licensed employees, and general training for licensed employees were examined for conformance with the Technical Specifications, quality assurance (QA) program requirements, and licensee commitments. The inspection included a review of the approved training program and selected training records, and discussions with technical, craft and female employees.

The Trojan General Employee Training (GET) program is conducted by Administrative Order (AO)-9-1. The GET program consists of a series of training sessions covering the following subjects: Radiation Protection, Prenatal Radiation Exposure, Radiological Emergency Response Plan, Respirator Training, Safety, Fire Protection, Quality Assurance, and Security. Personnel would only be permitted access to the plant when the applicable training was successfully completed.

The inspection results of the Trojan GET program were as follows:

- a. The inspector reviewed changes made to Trojan's training program and verified that the revised program was in conformance with requirements and commitments.

- b. The inspector interviewed by direct questioning one new, one existing, and one temporary employee whether administrative controls and procedures, radiological health and safety, industrial safety, controlled access and security procedures, emergency plan, and QA training was provided as required by the licensee's committed program.
- c. The inspector interviewed by direct questioning of three craftsmen, three Instrumentation and Control (I&C) technicians, and four other non-licensed employees that on-the-job training, formal technical training commensurate with job classification, fire fighting training, and retraining to maintain proficiency were provided as required by the licensee's committed program.
- d. The inspector examined the training records of two shift technical advisors (STAs) and verified that STA training and retraining is being conducted in accordance with the licensee's committed program.
- e. The inspector verified by direct questioning of four female employees that female employees are provided instructions concerning prenatal radiation exposure.

The inspector noted the absence of a formal technical training program, and in further questioning of Trojan's Management, it was noted that for the Institute for Nuclear Power Operations (INPO) training accreditation, additional personnel would be added to the training department to fulfill a technical training program requirement. It is the understanding of this inspector that Trojan was hiring an I&C technical trainer as well as Mechanical and Electrical training personnel. This program was to be in place and accredited by INPO by December, 1986. The only other comment mentioned by the personnel interviewed was the lack of personnel cross-trained in the same area; for example, rod control or relief valve repair. This comment was discussed with the Maintenance Supervisor who expressed a similar comment and assured the inspector that one of the goals of the proposed technical training program would be the cross-training of some personnel in each area, but not all personnel would be cross-trained. This area will be further inspected later during the year to check progress for the proposed INPO accreditation.

No violations or deviations were identified in this area.

3. Records Program

The records program was examined for conformance with the Trojan's Technical Specifications requirements, licensee commitments, and industry guides and standards.

The Trojan Plant Records program was conducted by Administrative Order (AO)-7-1. This order establishes measures for the collection, identification, transfer, retention, and retrievability of records which furnish documentary evidence of quality. In addition AO-7-1 defines which Quality Assurance (QA) records are to be maintained and delineates the retention requirements imposed by various documents; one of the more important documents being the Standard Technical Specifications (STS),

paragraphs 6.10.1 and 6.10.2. Paragraph 6.10.1 defines which records shall be retained for at least five years, and paragraph 6.10.2 defines which records shall be retained for the duration of the Facility Operating License.

The inspector verified that requirements and provisions have been established to maintain the types of records as defined in STS paragraphs 6.10.1 and 6.10.2. The inspector verified that responsibilities have been assigned to assure that the records mentioned above are being maintained. The Office Supervisor has the responsibility of assuring the security of QA plant records by maintaining control of access to the Permanent Records Storage Facility (PRSF).

The inspector verified that the following record storage controls have been established:

- a. The record storage facility, as described in AO-7-1, was a two-hour fire rated environmentally-controlled storage area.
- b. A custodian in charge of storage facilities has been designated as responsible for inspecting, organizing, and implementing control of the QA records.
- c. A filing system was in use that allows for the retrieval of QA records.
- d. Provisions are available for governing access to the files and a sign-out card system was in use to maintain accountability of records removed from the storage facility.
- e. An established method for corrections or filing supplemental information and disposing of superceded records was in use. The required review and approval process was specified in AO-7-1, Paragraph IV.B "Record Preparation on Site".

The inspector verified that provisions have been made which establishes retention periods for the QA records in accordance with STS paragraphs 6.10.1 and 6.10.2.

The inspector verified that the following QA records are being maintained in accordance with the above administrative controls:

<u>File No.</u>	<u>Title</u>
83.3c	Temporary Test Data Sheets (AO-3-15)
93.5e	Plant Operating Manual Revision Form
93.11g	Fire Brigade Training - Initial Classroom Instruction Attendance
93.11h	Fire Brigade Training and Drill Participations Crews
86.2	Non Licensed Operator Training
86.2a	Auxiliary Operator Training
83.6	Periodic Engineering Test (PET) Data Sheets
83.5	Preoverhaul Test (POT) data sheets

64.36	QA Audit Reports
62.1a	"Q" Purchase Requests, Purchase Order
93.16	Onsite PRB Minutes
72.2	Operating Instructions Check-Off Lists (Valve Lineup)
72.4	Control Room Logs
71.1a	Equipment History File
71.1c	Calibration Records

The inspector verified that the records selected above were controlled as follows:

- (1) The record was listed on a records check list or index.
- (2) The record was readily retrievable from its designated file.
- (3) The record was placed in folders.
- (4) The record was stored in a suitable file cabinet.
- (5) The record storage was in a two-hour fire rated environmentally controlled storage area.

The inspector interviewed the record storage custodian to ensure that the retention period controls identified above were understood. The record storage custodian was quite knowledgeable and understood the retention period controls and requirements.

The inspector verified that the environmental conditions and fire suppression systems (Halon) were as described in the STS.

No deviations or violations were identified in this area.

4. Receipt, Storage and Handling of Equipment and Materials Program

The receipt, storage and handling of equipment and materials program was examined for conformance with Trojan's Technical Specifications requirements, licensee commitments and industry guides and standards.

a. Program Review

The inspector verified that establishment of the several administrative controls for receipt of safety-related items were in accordance with Trojan's procedures. Receipt inspection of all incoming safety-related materials and supplies is required by Quality Control Procedure (QCP) - 17, entitled "Receipt Inspection of Quality Related Materials, Parts and Components", which establishes the methods and requirements by which quality related material will be receipt inspected. Receipt inspection for shipping damage is required by QCP-17, paragraph IV.B "Physical Inspection". Documentation of the receipt inspection is required to be prepared and retained in accordance with QCP-17, paragraph IV.E "Documentation of Receipt". The assurance that responsibilities of receipt inspection are assigned in writing is required by Administrative Order (AO)-12-3, entitled "Material Receipt Inspections". The inspector verified that controls for the disposition of items received on site were established for acceptable items including tagging/marking for storage and immediate issue for use. Controls for nonconforming items have been

established which ensure marking, segregating, disposition, and documentation of nonconforming items, and are incorporated in Quality Assurance Procedure (QAP)-15-1, entitled "Identification and Reporting of Nonconforming Materials, Parts and Components." The inspector verified that requirements have been established to prohibit the use of equipment or materials in nonconformance status, and for notifying affected organizations of nonconforming items. Controls for conditional release of items, including justification for use, documentation required, and authority for conditional release of the items are contained in Nuclear Division Procedure (NDP) 600-1 entitled "Identification and Control of Nonconforming Materials, Parts, and Components."

The inspector verified the establishment of the following administrative controls as specified in AO-12-4, entitled "Material Control and Identification":

- (1) Written requirements are issued providing for levels of storage and appropriate environmental conditions. (Paragraph VI.A)
- (2) Storage controls including access, identification of items, coverings, and preservatives are issued. (Paragraph III.F)
- (3) Requirements to conduct periodic inspections of the storage area are issued. (Paragraph III.G)
- (4) The maintenance and care of items in storage are specified including shelf life. (Paragraph III.G)
- (5) The responsibilities have been assigned for implementation of the above storage controls. (Paragraph I)

b. Implementation

The inspector selected a sample of safety-related items that have been received on site. The following items were inspected:

(1) Consumables

- (a) LPO NQ - 2272 - Swage Lock Fittings
- (b) N - 29218- Swage Lock Reducing Union 5/8 tube to 1/2 tube

(2) Mechanical

- (a) NQ - 00292 - Snubber PSA 1/2"
- (b) N - 30736 - Snubber PSA 1/2"

(3) Electrical

- (a) N - 28226 - SPN000 - Electric Motor
- (b) NQ- 00290 - SMB000 - Electric Motor

(4) Instruments

(a) N - 04398 - 0-30 psig Ashcroft Pressure Gauge

The inspector was able to verify that the receipt inspections were conducted with Trojan's Quality Control Procedure (QCP)-17, disposition of the items was in accordance with controls for acceptable items, and storage of the items was proper. The tagging/markings allowed tracing the item back to the purchase order documents, receipt documents, and quality certification documents.

The licensee's receipt inspection program activities appear to be conducted in accordance with the licensee approved procedures and instructions. The receipt inspection program appears to meet the requirements of regulatory guides, industry codes, and the Technical Specifications.

No violations or deviations were identified in this area.

5. Exit Interview

The inspector met with the licensee representatives denoted in paragraph 1 on January 10, 1986, and summarized the scope and findings of the inspection activities.