U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-397/87-13

Docket No. 50-397

License No. NPF-21

Licensee: Washington Public Power Supply System
P. O. Box 968
Richland, Washington, 99352

Facility Name: Washington Nuclear Project No. 2 (WNP-2)

Inspection at: WNP-2 Site, Benton County, Washington

Inspection Conducted: May 18 - May 22, 1987

Inspectors: James F. Melfi — 6/10/87
J. F. Melfi, Reactor Inspector — Date Signed

W. J. Wagner — 6/10/87
W. J. Wagner, Reactor Inspector — Date Signed

Approved By: W. J. Wagner for — 6/10/87
S. A. Richards, Chief, Engineering Section — Date Signed

Inspection During the Period of May 18-22, 1987 (Report No. 50-397/87-13)

Areas Inspected: Routine, unannounced inspection by regional based inspectors of the licensee's QA programs for audits, and for the receipt, storage and handling of equipment and materials. During this inspection, Inspection Procedures 30702, 38702, 40702, and 40704 were used.

Results: Of the areas inspected, one violation was identified for failure to comply with procedural requirements for conditional release of items (paragraph 3.b).

DETAILS

1. Persons Contacted

   a. Licensee Personnel

   *J. Baker, Assistant Plant Manager,
   *H. McGilton, Operations Assurance Program Manager
   *D. Feldman, QA/QC Manager
   *M. Bartlett, QA Supervisor
   *M. Etchamendy, Operations Controls and Materials Manager
   *J. McDonald, Materials Management Specialist
   S. Washington, Compliance Engineer
   R. Mineke, Supervisor Operations Warehouse/Traffic
   N. Irwin, QC Supervisor
   A. Hexum, Lead Material Administrative Specialist
   C. Jensen, Lead Warehouse Coordinator
   D. Miller, Principal QC Engineer
   R. Haviland, Senior QC Engineer

   b. Bonneville Power Association

   *W. Milbrot, Nuclear Engineer

   Other licensee employees contacted included technicians, operators, mechanics and office personnel.

   *Attended the Exit Meeting on May 23, 1987

2. Quality Assurance Auditing

   a. Audit Program

   The inspector reviewed the licensee's quality assurance (QA) program relating to onsite audits of activities that are in conformance with Technical Specifications and regulatory requirements. The licensee's QA surveillance program is divided into offsite (corporate) and onsite organizations. The corporate QA has fewer audits the site QA, but offsite QA audits are generally more in depth.

   The onsite procedure to implement plant surveillance activities is PQA-03. This procedure allows for formal, informal and walkthrough inspections. The formal surveillances use checklists, but the informal and walkthrough surveillances do not. The surveillance reports document suggestions, observations, and deficiencies noted in the work activity.

   The offsite procedure to implement audits is QAI 18-1. This procedure is more formal, and requires the use of an audit plan, schedule and checklists or marked up procedures when conducting the audit.

b. Audit Program Implementation

Implementation of specific aspects of the QA auditing program was previously inspected and reported in NRC Inspection Report No. 50-397/87-11. The report addressed review of QA surveillances, followup of corrective actions for deficiencies identified, qualifications of QA/QC personnel, and overall effectiveness with regards to quality verification. During this inspection, specific attention was devoted to the technical adequacy of the audits. Therefore, the inspector examined selected corporate audits and site QA surveillances that were performed in the following areas:

(1) Fire Protection

In the area of fire protection, the following 2 onsite surveillances were reviewed:

- 2-86-114, "Fire Brigade Training and Staffing"
- 2-87-035, "Plant Fire Brigade Drill"

Surveillance report 2-86-114 identified five deficiencies and one observation relating to staffing and qualifications. These items were tracked to completion. Surveillance report 2-87-035 did not identify any concerns, but identified six suggestions for improved effectiveness.

(2) Radiation Protection

In the area of radiation protection, the following 2 onsite surveillances were reviewed:

- 2-87-104, "Personnel Exposure Monitoring/Dosimetry"
- 2-87-123, "Radiation Work Permit Program"

Surveillance report 2-87-104 identified one deficiency and surveillance report 2-87-123 had 4 observations and 3 deficiencies.

(3) Chemistry

In the area of chemistry, the following 4 onsite surveillances were reviewed:

- 2-86-096, "Chemistry QA Assurance"
- 2-86-109, "Chemistry Sampling, Sample Handling and Preparation"
- 2-86-162, "Chemistry Laboratory Analytical Control"

- 2-87-034, "Chemistry Sampling, Sample Handling and Preparation"

These reports contained the following observations and deficiencies: Report 2-86-096, 2 observations and 3 deficiencies; Report 2-86-109, 3 deficiencies; Report 2-86-162, 2 observations and 1 deficiency; and Report 2-87-034, 2 Observations and 1 deficiency. The types of problems reported included properly signing off work completed, chemical shelf life, and concerns for adequate radiological surveys. There were not any recurring problems noted.

(4) Diesel Generators

In the area of maintenance, the 2 following onsite surveillances dealing with diesel generators (DGs) were reviewed:

- 2-85-139, "Emergency DG Maintenance and Testing"
- 2-86-049, "Emergency DG Maintenance and Testing"

Surveillance report 2-85-139 identified 3 deficiencies and surveillance report 2-86-049 did not identify any problems. The items had been tracked to resolution in report 2-85-139. The two reports were not looking at the same areas relating to DG maintenance and testing.

(5) Instrumentation and Calibration

In the area of Instrumentation and Calibration (I&C) the following 2 Corporate audits were reviewed:

- CA-RMS-85-005, "Calibration Laboratory Facilities"
- CA-RMS-86-033, "Audit of Instrumentation and Calibration Department"

The following onsite surveillance was also reviewed:

- 2-87-155, "Instrument Maintenance and Calibration"

The audit reports are more extensive than surveillance reports. Audit report CA-RMS-85-005 did not identify any deficiencies; audit report CA-RMS-86-033 identified 2 deficiencies relating to documentation and use of interim procedures. The surveillance report identified a deficiency relating to the controlling of equipment.

In general, the QA organizations seem to be finding significant items with regards to quality verification. The audits and surveillances are sufficiently planned. The people performing the audit are qualified in the audited area. The QA organizations appear to be aggressive in searching for and

identifying problems. They also appear to be operating satisfactorily, resolving identified problems, tracking these items to completion, and reporting the issues to upper management.

The inspector was informed by the licensee that the QA organizations have recently been attempting to enhance their technical adequacy and root cause determination. The inspector noted that more recent reports appeared to be more in depth than previous QA reports.

No violations or deviations were identified.

3. Receipt, Storage and Handling of Equipment and Materials

a. Program Review

The following procedures were reviewed to assure conformance to FSAR commitments:

(1) QA/QC Instruction No. PQC-09, Revision 5, dated January 31, 1986, "Receiving Inspection."

(2) Administrative Procedure No. 1.15.8, Revision 1, dated October 13, 1986, "Warehousing."

(3) Administrative Procedure No. 1.3.12, Revision 9, dated March 2, 1987, "Plant Problems."

(4) Contracts and Materials Management Instruction No. CMI 4.5.8, Revision 2, dated July 1, 1985, "Material Storage, Placement and General Housekeeping of Warehouse Materials."

These procedures provided controls for receipt, storage and handling of safety-related items. This included requirements for receipt inspection, damaged material, receipt inspection documentation, and conformance with requirements specified on the original procurement documents. Controls also addressed the disposition of items received on site, nonconforming items, and conditional release of items. Storage control addressed requirements for storage levels, identification of items, maintenance and care of items in storage including shelf life, periodic inspections, and assigned responsibilities for implementation of these storage controls.

b. Program Implementation

The license adequately maintains five warehouses located outside the security protected area; receiving, shipping, QC inspection and delivery functions are performed at Warehouse 1. Warehouse 17, located inside the protected area, is where the majority of safety-related items are stored in support of plant operations. The inspector toured each warehouse in order to determined how items were being controlled. This included receipt inspection, controlled access, marking and segregation of nonconforming items, environment

conditions and storage levels, identification of all items, and housekeeping.

When observing receiving inspection activities, the inspector identified that Section 3.4 of PQC-09 was not being properly implemented. Section 3.4 addresses the requirements for the conditional release of items. Specifically, Section 3.4.3 instructs the receipt inspector to fill out a Conditional Release Tag only when the applicable NCR authorizes a conditional release. Contrary to this requirement, the inspector identified 4 instances where the Conditional Release Tags were filled out prior to authorization by the applicable NCR. These items are associated with the following Purchase Order Numbers obtained from the Conditional Release Log: 075190, 082262, 085260 and 081961.

The failure to comply with receiving inspection requirements as specified by instruction is considered an apparent violation (50-397/87-13-01).

When inspecting for compliance with PQC-09, the inspector found the receiving inspection instructions to be vague in its applicable to WNP-2 and WNP-3. For example, Section 3.4.1 refers to SDRs and NCRs; however, the instruction does not specify that SDRs (Startup Deficiency Reports) is applicable to WNP-3 only. Also, Section 3.6 (Document Package Review) is mainly addressing WNP-3 activities. The inspector suggested that, since WNP-2 is the licensee's only operating plant, PQC-09 be revised to reflect applicability only to WNP-2 The licensee approached this suggestion favorably and will consider revising PQC-09 in the near future. No addition action is required by the inspector concerning this item.

While observing receiving activities in Warehouse 1, the inspector noted that the licensee was utilizing a cone tracking system to aid in the identification and location of safety-related materials. Since this activity is not described or controlled by licensee procedures, the inspector was concerned as to how the cone system might affect the existing controls for receipt of materials. In accordance with Administrative Procedure No. 1.15.8 "Warehousing" materials which are unloaded from shipment are placed in the designated Receiving Hold Area. The cones are placed on the materials placed in the hold area with the corresponding cone number and color noted in the procurement log. The materials remain in this hold area until Plant Quality Control (PQC) performs a receipt inspection per PQC-09. The cone system therefore becomes a convenience for quick location and identification of the material to be inspected. The inspector is satisfied that no reliance is placed on the cone system and, therefore, does not affect the controlling procedures for receipt of safety-related materials.

Warehouse 17 is designated as a Level A storage area with an ambient temperature requirement of 60°-90°F, and relative humidity to be below 50%. During the inspector's tour of this area, the temperature was 76°F with relative humidity of 33%. No improperly marked items were identified by the inspector. A 3-phase amplifier

board, Stock No. 81204725, was selected by the inspector to determine traceability to the original procurement documents. This item was properly tagged allowing the inspector to verify traceability to the purchase order, receipt inspection reports and the quality certification documents.

4. Exit Meeting

The inspectors met with licensee management representatives denoted in paragraph 1 on May 22, 1987. The scope of the inspection and the inspectors' findings as noted in this report were discussed.