

U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-508/85-03  
Docket No. 50-508  
Construction Permit No. CPPR-154  
Licensee: Washington Public Power Supply System (WPPSS)  
P. O. Box 1223  
Elma, Washington 98541  
Facility Name: Washington Nuclear Project 3  
Inspection at: WNP-3 Site, Satsop, Washington  
Inspection conducted: July 7-12, 1985

Inspectors:

R. B. Pereira  
D. B. Pereira, Reactor Inspector

7/26/85  
Date Signed

Approved By:

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

7/26/85  
Date Signed

Summary:

Inspection on July 7-12, 1985 (Report No. 50-508/85-03)

Areas Inspected: Routine unannounced inspection by a regionally based inspector of the quality assurance program for extended construction delay and preservation program, including organization, audits, quality records, and site tour. This inspection involved 34 hours onsite by one inspector.

Results: Of the four areas inspected no violations or deviations were identified.

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## DETAILS

### 1. Persons Contacted

#### a. Washington Public Power Supply System

- \*C. E. Love, Manager, Construction
- \*L. J. Garvin, Acting Manager, Project Quality Assurance
- \*V. R. Harris, Manager, Plant Maintenance
- \*D. I. Hulbert, Assistant Project Manager, Engineering
- \*E. A. Stauffer, Manager, Plant Quality Assurance
- \*D. R. Coody, Supervisor, Project Quality Assurance
- \*M. C. Robb, Supervisor, Records Management
- \*R. Williams, Staff WNP-3
- R. Madden, Quality Assurance, Auditor

#### b. Ebasco Services Inc.

- L. F. Adams, Supervisor, Quality Assurance
- \*R. M. Taylor, Construction
- \*J. J. Doran, Administration
- \*P. L. Pitman, Manager, Quality Assurance
- W. K. Drinkard, Auditor

#### c. Other Organizations

- \*S. F. Swearngin, Program Analyst, Bonneville Power Authority

\*Denotes those attending the exit interview on July 12, 1985.

In addition to the individuals noted above, the inspector interviewed other member of the licensee's and contractor's staff.

### 2. Organization Structure and Quality Assurance (QA) Personnel

The inspector conducted an evaluation of the licensee's Quality Assurance program for the extended construction delay currently in progress. The WNP-3 Technical Specifications, Section 17 specifies that WNP-3 shall implement an overall Quality Assurance Program (QA Program) for the design, procurement, construction and operation of Supply System's Nuclear Project No. 3 (WNP-3) in accordance with the requirements of Appendix "B" of 10 CFR 50. Section 17.1 describes the licensee's organizational relationships within the Supply System and assigns the authorities and responsibilities for the administration and implementation of the Quality Assurance Program.

The inspector verified that the QA program's organizational relationships are defined and that the authorities and responsibilities have been assigned in accordance with their Technical Specifications, Section 17. The position of WNP-3 Project Quality Assurance (QA) Manager is currently held by the corporate Construction Quality Assurance Manager. The Project QA Manager spends only part of his time at the site, with the remainder in his capacity as corporate Construction QA Manager at the corporate offices in Richland. The site Project QA personnel consists of

a supervisor and two engineers. The site operational QA group consists of the WNP-3 Plant QA Manager. No additional engineers or other technical staffs are assigned in this area.

The Ebasco Services, Incorporated (Ebasco) QA group consists of a supervisor, seven QA engineers, and three QA specialists (quality documentation clerks). Their functional areas of responsibilities include: contractor audits and surveillances, QA engineering, training, receipt inspection, vendor QA, and QA records.

The inspector verified that the qualifications, responsibilities, and duties of QA personnel were as specified in WNP-3 Technical Specifications. Quality Assurance Program procedure QAR-1, Rev. 3, defines the organizational relationships, provides the qualifications, responsibilities, and duties of QA personnel. The indoctrination/training program for QA personnel is provided via QAR-1, Rev. 3 and the Manager, Construction Quality Assurance is responsible for QA personnel training.

Section 17.1.1.1.8 and QAR-1, Rev. 3 provides that the Director, Licensing and Assurance has the authority to provide remedial action in matters of significant conditions affecting quality or Nuclear Safety and Regulatory Programs.

No violations or deviations were identified in this area.

### 3. Audits/Surveillances

The inspector conducted an evaluation of the licensee's audit/surveillances program for the extended construction delay program. Quality Assurance Program Procedure QAR-18, Rev. 3, defines the requirements for a comprehensive system of audits. This procedure applies to both internal and external audits performed by the Supply System.

The inspector examined the records of one audit performed by the Supply System staff and several performed by the Ebasco QA staff.

Audit Number 84-290 of March 26-29, 1984, was a corporate Supply System audit of the safety-related activities accomplished at WNP-3 during the extended construction delay. This audit conducted was an evaluation of the implementation of the Supply System's ASME Quality System Manual, and verified that the Supply System was effectively implementing the necessary controls, to ensure all the plant assets important to safety, were being maintained in such a manner as to prevent damage and deterioration during the extended construction delay. This audit identified six Quality Findings Reports (QFRs) which were closed at the time of this inspection. Review of the corrective actions for the QFRs taken by the licensee appeared to be responsive and adequate.

Ebasco QA audit No. 3/5-S-11, conducted on July 23 through 31, 1984, consisted of reviewing procedure requirements, checking material storage areas, reviewing maintenance records, and interviewing responsible personnel.

Ebasco's Procedure Review examined upper level document requirements and actual field operating practice procedures. Recent revisions included provisions allowing the use of the Reactor Building, Reactor Auxiliary Building, Turbine Building, etc., as designated "Storage Areas" with materials contained therein considered as being in a QC Receiving Inspection Hold Area. The procedures as written takes into account the ability of the staff to find, evaluate, reidentify as required, and finally move to new storage facilities, if necessary, the materials and equipment. Ebasco procedure PSP-MM-11-1 was verified by the Ebasco's auditor as describing the entry of items into the Preventive Maintenance Program, item file content required, required preventative maintenance documentation, corrective action for discovered problems, and records retention.

Ebasco's Material Storage Area audit examined 16 out of approximately 37 storage areas identified under Ebasco's responsibility. All the areas examined were found to be clean, accessible, well identified and contained stored items which were at an identified stage of final storage.

Ebasco's Preventative Maintenance Department audit examined items being maintained, where they are located, their identification, and when they are to receive maintenance. Ebasco's auditor selected 58 items and examined the associated maintenance records. Each file contained applicable item identification, location information, and a description of the maintenance to be performed. Ebasco's auditor found the maintenance records to be retrievable, neat and up-to-date.

The inspector verified several of Ebasco's and Supply System's audits and found that both organizations have audit procedures and checklists, that the scope and purpose of audits to be performed was clearly stated, and that surveillance and monitoring of activities was being performed routinely. The inspector verified that both Supply System and Ebasco had a schedule in which to perform audits, a management review and assessment program, documentation of results of audits format, and a plan for management review and followup of corrective action as necessary.

The licensee appears to be fulfilling it's commitment to conduct periodic internal audits of their organization.

No violations or deviations were identified in this area.

#### 4. Corrective Action

The inspector reviewed that the licensee has procedures established for identification and corrective of conditions adverse to quality. Procedure QAR-16, Revision 3, entitled "Corrective Action" defines the requirements for corrective action of conditions that are adverse to quality. These requirements include controls to ensure that the cause of adverse conditions is determined, reported, and corrected to preclude repetition.

No violations or deviations were identified in this area.

5. Document Control

The inspector established that the licensee has proper identification/ listing and control of the Quality Assurance instructions and procedures for use during the extended construction delay. Procedure QAR-6, Rev. 2, entitled "Document Control" defines the requirements for the control of documents, thus ensuring that only the latest approved and applicable documents are used for the prescribed activity.

The licensee has procedures for the control and retention of quality-related records, especially those generated by contractors and consultants during the extended construction delay.

No violations or deviations were identified in this area.

6. Access Control

The inspector reviewed the licensee's construction site security procedures to ensure that they are being met and that control of materials and equipment to prevent unauthorized use or alteration has been established. The licensee's security guard force appeared to be adequate and responsive.

No violations or deviations were identified in this area.

7. Protection and Preservation

The inspector toured the containment and auxiliary buildings to observe the preservation of installed equipment and the Ebasco warehouses to observe the preservation of stored equipment. The inspector noted that electrical and control panels were protected under plastic. Pumps and motors were covered and lamps or equipment heaters utilized to minimize condensation. Incomplete systems had openings sealed with plastic or wood covers. Several system had vapor phase inhibitors applied to minimize corrosion. The warehouses were clean, environmentally controlled, and materials were properly segregated. When desiccators were used, the containers were sealed and had humidity indicators. A preventive maintenance program was established for safety-related equipment and activities. A record generation program was established for the preventive maintenance records. The inspector examined 20 maintenance records which varied from pump motor meggering tests, inspecting internals, rotating pump or motor shafts and respiking (refilling) oil. Records examined included the following safety-related systems: low pressure safety injection (LPSI) pump and motor, high pressure safety injection (HPSI) pump and motor, and containment spray pump and motor. The licensee has been conducting preventive maintenance within the prescribed scheduled intervals.

No violations or deviations were identified.

8. Nonconforming Activities and Conditions

The inspector observed that Ebasco has Nonconforming Reports (NCR) for controlling materials, parts or components which do not conform to



requirements in order to prevent their inadvertent use or installation. Ebasco procedure ESP 3.01S3, Rev. 0, entitled "Site Nonconformance Reports" defines the initiation, disposition, review and controls for Nonconformance Reports of nonconforming material. The inspector verified that the NCR record generation and controls were as specified in the Ebasco procedure ESP 3.01S3. The inspector reviewed several NCRs and the corrective action appeared to be timely and appropriate.

No violations or deviations were identified.

9. Utilization of Inspection Personnel

The inspector examined the Supply System's and Ebasco's inspection personnel records and determined that they appeared to have adequate qualifications and experience commensurate with type and extent of work activities. Their assigned duties and responsibilities were enumerated in each organizations guidance documents.

No violations or deviations were identified.

10. Use of Measuring and Test Equipment

The inspector examined the Supply System's measuring and test equipment storage area and verified that the equipment is checked and calibrated as required. Procedure QAR-12, Rev. 3 provides for the control of measuring and test equipment. The inspector verified that the calibration, adjustments and maintenance for selected equipment were being performed at prescribed intervals, or prior to use. Records of calibration status were being maintained. The equipment was suitably marked with a unique identification number.

No violations or deviations were identified.

11. Exit Interview

The inspector met with the licensee representatives denoted in paragraph 1 on July 12, 1985, and summarized the scope and findings of the inspection activities. The licensee was informed that no violations had been identified.