

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

REGION V

Report No. 50-508/83-01

Docket No. 50-508 License No. CPPR-154 Safeguards Group _____

Licensee: Washington Public Power Supply System

P. O. Box 1223

Elma, Washington 98541

Facility Name: WNP-3

Inspection at: Construction Site, Satson, Washington

Inspection conducted: January 1-17, 1983

Inspectors: *W. G. Albert, Jr.*
W. G. Albert, Senior Resident Inspector

1/28/83
Date Signed

Date Signed

Date Signed

Approved by: *R. T. Dodds*
R. T. Dodds, Chief, Reactor Projects Section No. 1
Reactor Projects Branch No. 1.

1/28/83
Date Signed

Date Signed

Summary: Inspection during the period of January 1-17, 1983 (Report No. 50-508/83-01)

Areas Inspected: Routine, unannounced inspection by the resident inspector of construction activities, including an examination of welding for safety-related piping restraints and supports, installation of core internals, open items from previous inspection, and concrete placement for dry cooling tower. The inspection involved 32 inspection hours by one NRC inspector.

Results: No items of noncompliance were identified.

DETAILS

1. Persons Contacted

The inspector interviewed various engineering, management, inspection, and construction personnel of the organizations listed below. Key personnel, including those who attended the exit interview, are identified below.

a. Washington Public Power Supply System (Licensee or Supply System)

- *R. S. Leddick, Program Director, WNP-3/5
- T. Beers, Project Quality Engineer
- N. F. Blais, Senior Project Quality Engineer
- *D. R. Coody, Project Quality Engineer
- N. C. Kaufman, Project Startup Manager
- C. E. Love, Unit 5 Termination Manager
- M. A. Neel, Project Electrical Engineer
- *J. A. Vanni, Senior Project Quality Engineer
- J. E. Werle, Project Engineering Manager

b. Ebasco Services, Inc. (Ebasco)

- *R. E. Abel, Project Quality Engineer
- T. E. Cottrell, Manager, Resident Engineering
- A. M. Cutrona, Quality Program Site Manager
- D. W. Cutting, Welding Engineer
- K. J. Giadrosich, Quality Assurance Engineer
- J. D. May, Quality Assurance Engineer
- R. K. Orgill, Construction Superintendent
- V. Shappell, Quality Assurance Engineer

c. Combustion Engineering (CE)

- R. P. Copp, Project Manager, CE-Avery (Corporate)
- W. B. Douglass, Nuclear Site Manager
- R. Hicks, Quality Assurance Engineer
- L. Lehman, Quality Assurance Site Representative
- W. Pratt, Site Representative
- E. Shenk, Installation Manager

d. Fischbach/Moore (F/M)

- D. Dishaw, Foreman

e. State of Washington Department of Labor & Industries

- C. Renaud, State Electrical Inspector II

*Denotes those in attendance at exit interview on January 14, 1983

2. Independent Inspection and Tours

Daily tours of some portions of the Unit 3 construction site were normally conducted by the resident inspector during each on-site work day of the inspection period.

No items of noncompliance were identified.

3. Project Construction Status - Unit 3

At the end of the report period, project site construction had reached 70 percent completion.

4. Action on Previously Unresolved, Follow-up, and Enforcement Items

(Open) Unresolved Item (50-508/82-26-01) - Cleanliness and Access Controls for Core Internals Work.

During this inspection period, the resident inspector found only marginal improvement in actual cleanliness in the reactor pit area. During an inspection on December 29, 1982, access control had not been improved. However, starting on January 3, 1983, it was found that access was controlled to those who had been issued keys to the area door. The issuance of a code deviation or an item of noncompliance in this matter will depend upon the further review of what constitutes adequate access, material and cleanliness controls in accordance with ANSI N 45.2.3 as implemented by CE-Avery Field Procedure AS-P-019.

This matter remains unresolved.

5. Welding of Main Steam Line Restraints and Supports

During the report period, welding of these structures was examined in the field on several occasions. No items of noncompliance were identified.

6. Installation of Core Internals

The work associated with the flexure weld between the core barrel and the core support structure was examined. The resolution of a problem with an apparent forging lap which appeared in the lower ring forging was examined. Repairs appeared to be satisfactory. However, questions remained with regard to whether the lap found in the lower forged ring of the core barrel was an isolated instance. There are a total of four forged rings in the core internals. The Licensee was addressing these questions and they will be examined further as a follow-up item. (Follow-up Item No. 50-508/83-01-01, Quality of CE Ring Forgings for Core Internals Components.)

The field repair of tie rods in the upper guide structure was initiated during the month.

A reexamination of the fit of the core support structure to the incore monitoring tubes was underway at the end of the report period. This was being redone because of the questionable position of one measuring device near the temporary ladder into the vessel. These devices were not read immediately after the initial fit and it was suspected that the one in question (out of 61) had been accidentally moved.

Except as noted in paragraph 4 above with regard to cleanliness and access controls, no items of noncompliance were identified.

7. Foundations for Safety-related Structures

One large concrete placement for the north Dry Cooling Tower was observed during the month.

No items of noncompliance were observed. However, the inspector observed that craftsmen were not rigorously controlling the lateral movement of concrete and there appeared to be only marginal adherence to ACI recommended practice with regard to the depth of vibrator insertion between placement layers. This was discussed with the Licensee on January 7 and 14. Special surveillance by the Licensee is planned for the future in order to evaluate contractor practice. Follow-up by the NRC will be performed in the course of routine inspection.

8. Unresolved Items

Unresolved items are matters about which more information is required to ascertain whether they are acceptable items, items of noncompliance or deviations. An unresolved item examined during this inspection is discussed in paragraph 4 above.

9. Exit Interview

On January 7 and 14, 1983, the items in this report were discussed with Supply System and Ebasco personnel as indicated in paragraph 1 above.

The meeting on January 14, 1983 was held with Mr. R. S. Leddick, Program Director for WNP-3. At this meeting, the resident inspector explained the arrangements which Region V had made for site coverage by the NRC during the next two to three months when the resident inspection will be on a special assignment unrelated to the project.