



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30303

Report Nos.: 50-390/83-53 and 50-391/83-42

Licensee: Tennessee Valley Authority
500A Chestnut Street
Chattanooga, TN 37401

Docket Nos.: 50-390 and 50-391

License Nos.: CPPR-91 and CPPR-92

Facility Name: Watts Bar 1 and 2

Inspection at Watts Bar site near Spring City, Tennessee

Inspector: L. H. Jackson 1/9/84
Date Signed

Approved by: C. M. Upright 1/9/84
Date Signed
C. M. Upright, Section Chief
Engineering Program Branch
Division of Engineering and Operational Programs

SUMMARY

Inspection on December 12 - 16, 1983

Areas Inspected

This routine, announced inspection involved thirty-four inspector-hours on site in the areas of licensee action on construction deficiency reports and followup on NRC inspector identified problems.

Results

Of the two areas inspected, no violations or deviations were identified.

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REPORT DETAILS

1. Persons Contacted

Licensee Employees

J. W. Henry, Supervisor, Hanger Engineering Unit-C
*N. Hicks, Nuclear Licensing Unit
B. E. Huffaker, Supervisor, Hanger Engineering Unit-B
C. W. Hutzler, Civil Engineer
L. J. Johnson, Assistant Construction Engineer
*S. Johnson, Jr., Quality Manager
*A. W. Rogers, QA Supervisor WBNP Construction
*T. Smith, Nuclear Licensing Unit
G. Wadewitz, Project Manager
B. E. Williams, Mechanical Engineer
*P. J. Wilson, Nuclear Licensing Unit

NRC Resident Inspectors

M. B. Shymlock, Senior Resident Inspector, Operations
W. B. Swan, Senior Resident Inspector, Construction

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on December 16, 1983, with those persons indicated in paragraph 1 above. The licensee representatives acknowledged the inspection findings.

3. Licensee Action on Previous Enforcement Matters

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Licensee Action on Construction Deficiency Reports (CDR) (92700)

- a. (Closed) CDR 50-390/82-31 and 50-391/82-28, No Evidence That Auxiliary Feedwater Pump Components Meet Code Requirements, ASME Class 3, TVA Class C.

The final report was issued September 27, 1983. This problem is identical to the failure of the licensee to purchase the Diesel Generator Auxiliary Systems in accordance with Regulatory Guide 1.26.

These auxiliary feedwater pump components were purchased on contract 74C30-83094 dated May 7, 1974, from Ingersoll-Rand Company to Specification 1547. The contract required the pressure retaining components to be in compliance with the latest revision of the ASME B&PV code at the time of contract award. The nonpressure containing components were specified to be standard manufacture. This contract predated Regulatory Guide 1.26 which was issued in June 1975.

The final report from the licensee was issued September 27, 1983. The inspector reviewed the reports concerning this identified deficiency and verified that applicable drawings have been revised to include TVA Class "C" requirements which are equivalent to ASME Section III for installation. TVA Specifications N3M-868-2 has been revised to incorporate adequate materials requirements for future contracts to preclude recurrence. The inspector verified the installation of the equipment to be in compliance with ASME Section III requirements.

- b. (Closed) CDR 50-390/83-07 and 50-391/83-06, Failure to Provide Bolt Tightening Requirements.

The final report was issued by the licensee on November 1, 1983. The inspector reviewed the final report and held discussions with responsible personnel at the construction site. The inspector reviewed drawing 47A50, General Notes Drawings and confirmed that adequate information is available to verify bolt torque on unistrut clamp bolts and conduit supports. Watts Bar Nuclear Plant performed a sample program similar to the one required in NRC Bulletin 79-02 and verified that an acceptance level in excess of 95 percent had been attained (WBN 830825011, 830928003, 830914001, and 830915013). The inspector review the data and discussed the CDR with responsible TVA personnel.

- c. (Closed) CDR 390/79-33-01 and 391/79-28-01, Insufficient Flexibility of Low Head Injection Test Line.

The final report was submitted on August 27, 1979. The inspector reviewed the final report, held discussions with responsible licensee representatives, and reviewed revised drawings and supporting documentation. The inspector verified that the piping in Units 1 and 2 had been installed in accordance with the approved drawings. The installation was verified to be correct.

- d. (Closed) CDR 390/79-26-01, NCR CEB 79-23, Containment Building Pipe Penetrations - Design Basis Accident Movement of Steel Containment Vessel Not Properly Accounted for in Design.

The final report from the licensee was issued on February 15, 1980. The inspector reviewed the final report, held discussions with responsible personnel, and reviewed drawing revisions associated with changes required by the analysis. The inspector independently confirmed that approximately fifty hangers had been modified and reinspected by TVA.

The inspector also verified that records were available to confirm that changes were in accordance with the latest drawings.

6. Followup on Inspector Identified Problems (92701)

(Closed) IFI 50-390/83-36-01 and 50-391/83-25-01, Evaluation and Posting of 10 CFR 21 Requirements.

The inspector observed the 10 CFR 21 Notice for All Employees (Notice) at the main entrance for craft personnel (brass alley entrance). The inspector reviewed the Construction procedure referenced in the Notice; QAP-15.1, Reporting and Correcting Nonconformance; QAP-4.1, Procurement Document Control; QCI-1.02 R9, Control of Nonconforming Items; and QCI-1.20 R5, Site Control of Procurement. The inspector observed the posting of similar 10 CFR 50 notices in the operations buildings. The inspector held discussions with responsible personnel and confirmed the adequacy of implementation of 10 CFR 21 requirements at the construction site.