



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

Report Nos. 50-390/80-24 and 50-391/80-18

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

Facility Name: Watts Bar

Docket Nos. 50-390 and 50-391

License Nos. CPPR-91 and CPPR-92

Inspection near Watts Bar Dam, Tennessee

Inspector: T. D. Gibbons for 8-20-80
Date Signed

Accompanying Personnel: E. Intrator, Brazilian National Commission on Nuclear Energy

Approved by: T. E. Conlon 8-20-80
T. E. Conlon, Section Chief, RCES Branch Date Signed

SUMMARY

Inspection on July 28-31, 1980

Areas Inspected

This routine unannounced inspection involved 26 inspector-hours onsite in the areas of Licensee Identified Items, Electrical Cables and Terminations work and work activities, Instrumentation Components and Systems work and work activities.

Results

Of the four areas inspected, no items of noncompliance or deviations were identified in three areas; one item of noncompliance was found in one area. Infraction - Foam generator gauge out of calibration, paragraph 5.

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DETAILS

1. Persons Contacted

Licensee Employees

- *J. E. Wilkins, Project Manager
- J. H. Perdue, Electrical Engineering Unit Supervisor
- E. Austin, Electrical Engineer
- *T. W. Hayes, Instrumentation Engineering Unit Supervisor
- *A. W. Rogers, Site QA Supervisor

NRC Resident Inspector

- *J. A. McDonald
- *T. L. Heatherly

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on July 31, 1980 with those persons indicated in Paragraph 1 above. The item of noncompliance identified in Paragraph 5 was discussed.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Independent Inspection Effort

The inspector conducted a two hour backshift inspection of the electrical power system. The inspection covered the examination of the 6900 Volt boards, the auxiliary shutdown panels and the 120 Volt DC panels. The emergency diesel generator building was examined to assure that the electrical installation conforms with the licensee procedures. The instrumentation installation in containment one was examined to assure that the inprocess work was installed as required by the procedures and drawing. A power cable 2-3PL-30-3133A was signal traced to assure that the cable was installed and inspected as required by procedures.

The inspector examined a foam generator being used to install penetration fire seals in the control room. It was noted that one pressure gauge had a calibration sticker which identified calibration due date as June 12, 1980. The Procedure WBNP-QCP-1.12 "Control and Calibration of Construction Tools, Gauges, Instruments and Measuring Devices" establishes a calibration frequency.

of three months for pressure gauges. The gauge identified was 47 days overdue for calibration. This item is an infraction which will be identified as 390-80-24-01 and 391-80-18-01, Foam Generator Gauge Out of Calibration.

Within the areas examined there was one item of noncompliance identified.

6. Instrumentation (Cables and Terminations II) Observation of Work and Work Activities (Unit 1)

The inspector selected nuclear instrumentation cables for examination to assure that the requirements of the procedures are being complied with in the areas of storage, handling, identification, nonconformance control issue, material control, work and inspection procedure application, size, type of cable, wireways, location, routing, protection, separation, wireway identification and testing. The cables selected were 1-2NM-92-2D, 1-2NM-92-4D, 1-2NM-92-6D, 1-2NM-92-8D, 1-2NM-92-41D, 1-2NM-92-43D, 1-2NM-92-45D and 1-2NM-92-47D. The cable is TVA type WTU, triaxial cable which is specially routed in conduit.

Within the areas examined, no items of noncompliance were identified.

7. Electrical (Cables and Terminations II) Observation of Work and Work Activities (Unit 1)

Cable 1-3V-30-3834B was selected for examination to assure that the QAM requirements are complied with in the areas of storage, handling nonconformance control, issue control, material identification work and inspection procedure application, size, type of cable, fire barriers, location, routing, separation, protection, raceway supports and identification, cable installation raceway loading, and cable terminations.

Within the areas examined, no items of noncompliance were identified.

8. Instrumentation (Components and Systems) Observation of Work and Work Activities (Unit 2)

The inspector selected three instrument loops which were in work. The instrument loops selected are 2-LLP-70-17A, 2-FF-68-6A-D and 2-PT-68-340A. The inspector examined the loops to assure that the SAR and QAM requirements were complied within the areas of identification, and location. The transmitters for the loops have not been installed.

Within the areas examined, no items of noncompliance were identified.

9. Licensee Identified Item

a. (Open) G. E. Circuit Breakers Impulse Level 390-80-24-02 and 391-80-18-02

The licensee has identified that the General Electric circuit Breakers may not pass air impulse test. The licensee has submitted an interim report dated July 18, 1980.

- b. (Open) Environmental Qualification of Class IE equipment, 390-80-24-03 and 391-80-18-03

The licensee has identified that the required documentation to verify the environmental qualification of several items of Class IE equipment is not available. The licensee is evaluating these items and will submit a written report.