



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

Report Nos. 50-390/79-27; 50-391/79-23

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

Facility Name: Watts Bar Nuclear Plants Units 1 and 2

Docket Nos. 50-390 and 50-391

License Nos. CPPR-91 and CPPR-92

Inspection at Watts Bar site near Spring City, Tennessee

Inspector: RJ Hardwick Jr 7/11/79
 R. J. Hardwick, Jr. Date Signed

Approved by: T E Conlon 7-11-79
 T. E. Conlon, Section Chief, Engineering Support Date Signed
 Section No. 1

SUMMARY

Inspected on June 27-29, 1979

Areas Inspected

This routine unannounced inspection involved 23 inspector-hours onsite in the areas of safety-related electrical power and control cable installation and QC records; QA audits of safety-related electrical cable installation and storage; and in-place storage of safety-related equipment.

Results

Of the three areas inspected, no apparent items of noncompliance or deviations were identified.

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DETAILS

1. Persons Contacted

Licensee Employees

- *T. B. Northern; Project Manager
- *H. C. Richardson; Construction Engineer
- *E. J. Austin; Assistant Supervisor, Electrical Engineering Unit (EEU)
R. D. Anderson; Electrical Engineer, EEU
- *J. E. Hoffert; Electrical Engineer, EEU
J. Woolbright; Electrical Engineer, EEU
- A. W. Rogers; QA Supervisor
- W. Crabtree; Electrical Engineering Aid
- J. Baker; Electrical Engineering Aid

Other licensee employees contacted included 9 construction craftsmen and 2 technicians.

NRC Resident Inspector

- *B. J. Cochran

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on June 29, 1979, with those persons indicated in Paragraph 1 above.

3. Licensee Action on Previous Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Independent Inspection

The inspector selected the following safety-related equipment for in-place storage examination.

- a. Diesel Generators: 1A1, 1A2; 2A1, 2A2; 1B1, 1B2; 2B1, 2B2
- b. Essential Raw Cooling Water Pump Motors: A-A, B-A, C-A, D-A, E-B, F-B, G-B, H-B
- c. Raw Cooling Water Pump Motors: A, B, C, D, E, F, G.

d. Fire Pump Motors: 1A-A, 2A-A, 1B-B, 2B-B.

The equipment was examined in the areas of physical protection, care and preservation, identification, and protection from damage.

The inspector also observed the "signal-tracing" of a safety-related 480 volt power cable at the motor control center cable end. The cable was being "signal-traced" to assure the cable's routing is in accordance with the pull slip.

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

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

The inspector selected the following safety-related cables for examination.

<u>Cable Number</u>	<u>Description</u>
1-4V-63-2120-A	480 volt power cable to valve 1-FCV-63-1-A
1-4V-63-3140-A	480 volt power cable to valve 1-FCV-63-73-B
1-4V-63-3130-A	480 volt power cable to valve 1-FCV-63-72-A
1-3V-63-3131-A	120 volt control cable to valve 1-FCV-63-72-A
1-3V-63-3141-B	120 volt control cable to valve 1-FCV-63-73-B
1-3V-63-2123-A	120 volt control cable to valve 1-FCV-63-1-A

Work and work records were examined in the areas of storage, handling, identification, use of specified material and installation. The routing of the selected cables was verified from the motor control center to the cable trays and from the component to the conduit. The terminations of the cable ends were examined. Completed "Pull" and "Termination" slips were in accordance with procedure WBNP-QCP-3.5.

Cable tray grounding, bonding, and identification for the selected cables were in accordance with procedure WBNP-QCP-3.4.

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

7. Electrical (Cable and Terminations II) - Review of Quality Records - Unit 1

The QC records for the cables listed in paragraph 6 were reviewed in the areas of receipt inspection, material certification, and installation. Cable installation records were traceable to the TVA's Inspection and Test (I&T) certification status reports which are issued by TVA's I&T branch per procedure WBNP-QCP-3.1. Vendor certification and test data were not reviewed because these records are maintained off-site by TVA's I&T branch.

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

8. Electrical (Cables and Terminations I) - Review of Quality Records - Unit 2

The inspector reviewed the records of the following QA audits.

<u>Audit Number</u>	<u>Subject</u>
WB-E-79-05	Installation of Class IE cables
WB-E-79-06	Handling and storage of Class IE insulated cable

Deficiencies identified during the audits were documented in accordance with the QA Manual. Corrective actions for the deficiencies were either completed or presently being evaluated.

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