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

Report Nos. 50-390/79-24 and 50-391/79-20

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

Facility Name: Watts Bar Nuclear Plant, 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: A. B. Ruff — 6-15-79 Date Signed
A. B. Ruff

Approved by: T. E. Conlon, Section Chief, RCES Branch — 6-15-79 Date Signed

SUMMARY

Inspection on May 29-June 1, 1979

Areas Inspected

This routine, unannounced inspection involved 27 inspector-hours onsite in the areas of installation and review of records; for instrumentation components and systems; for safety related electrical cables; and for electrical valve operators.

Results

Of the 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
*T. Hayes, Supervisor, Instrumentation Engineering Unit
*J. H. Perdue, Supervisor, Electrical Engineering Unit
*B. Forsten, Group Leader, Instrumentation Engineering Unit
*R. D. Anderson, Group Leader, Electrical Engineering Unit
A. Y. Slate, Engineer, Instrumentation Engineering Unit
L. Pearsall, Engineer, Instrumentation Engineering Unit
T. Baker, Representative, Electrical Engineering Unit

NRC Resident Inspector

*B. J. Cochran

*Attended exit interview

2. Exit Interview

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

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Independent Inspection (Units 1 and 2)

Eight electric valve operators (for valves 2-FCV-70-3-B, 1-FCV-70-3-B, 2-FCV-70-2-A, 1-FCV-70-2-A, 2-FCV-70-28-B, 1-FCV-70-25-A, 2-FCV-67-67-B, and 1-FCV-67-67-B) were selected for examination in the areas of receiving inspection, storage and installation. TVA procedures used in this examination were Nuclear Component Manual (NCM) 3.6, "Preservation and Issuing of Code Items", Quality Control Procedure (QCP) 3.1, "Storage and Maintenance of Permanent Electrical and Instrumentation Material", and QCP 3.6, "Electrical and Instrumentation Equipment Installation, Standard Tests, Inspections, and Documentation".

Within the areas examined no items of noncompliance or deviations were identified.

6. Instrumentation (Components and Systems I) - Observation of Work and Work Activities, and Review of Quality Records (Unit 1)

The following instruments were selected for examination:

Instrument No.	Description
1-LT-63-50	RWST Level Transmitter-Protection Set (P.S.) I
1-PT-1-5	SG #1 M. S. Header Pressure Transmitter-P.S. IV
1-FT-67-62	ERCW Supply Header "B" Flow Transmitter
1-PT-70-24A-A	CCS Heat Exchanger "A" Inlet Pressure Transmitter
1-LT-70-63A-A	Surge Tank Demin Water Inlet Level Transmitter

The instruments and their records were examined in the areas of receipt inspection, material certification, installation including identification, separation, location, and calibration. The installation of these instruments were not complete in that sensing lines and electrical cables to these instruments were still in process of being installed. Procedures used in this examination were QCP 1.6, "Receipt, Inspection, Storage, Withdrawal, and Transfer to Permanent Material"; QCP 3.1, "Handling, Storage, and Maintenance of Permanent Electrical and Instrumentation Material"; QCP 3.6, "Electrical and Instrumentation Equipment, Installation, Standard Tests, Inspections, and Documentation".

Within the areas examined no items of noncompliance or deviations were identified.

7. Electrical (Cables and Terminations I) - Observation of Work and Work Activities, and Review of Quality Records (Unit 2)

The inspector selected safety related cables, Numbers 2-3V-3-1952-A, 2-4V-3-1950-A, 2-3PL-67-3963-A and 2-3V-67-2406-B, for a physical examination and record review. These cables were examined in the areas of storage, protection, handling, nonconformance control, issue of specified material, receipt inspection including material certification, installation and installation inspection, cable and raceway identification, raceway loading and grounding to ensure that requirements of quality control procedures were followed. Since cable terminations on some cables were still being performed, termination and nondestructive tests on all cables, were not checked. The procedures used in these examinations were QCP 1.2, "Control of Nonconforming Items"; QCP 1.6, "Receipt, Inspection, Storage, Withdrawal, and Transfer of Permanent Material"; QCP 3.1, "Handling, Storage, and Maintenance of Permanent Electrical and Instrumentation Material"; QCP 3.5, "Installation, Inspection and Testing of Insulated Control, Signal, and Power Cables"; QCP 3.6, "Electrical and Instrumentation Equipment, Installation, Standard Tests, Inspections and Documentation."

Within the areas examined no items of noncompliance or deviations were identified.