



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION II  
101 MARIETTA STREET, N.W.  
ATLANTA, GEORGIA 30303

Report Nos. 50-390/82-34 and 50-391/82-31

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

Facility Name: Watts Bar

Docket No. 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 9/29/82  
A. B. Ruff Date Signed

Approved by: T. E. Conlon 9-29-82  
T. E. Conlon, Section Chief Date Signed  
Engineering Inspection Branch  
Division of Engineering and Technical Programs

**SUMMARY**

Inspection on September 14-17, 1982

**Areas Inspected**

This routine, unannounced inspection involved 26 inspector-hours on site in the areas of instrumentation cable and termination, observation of work, work activities, and review of quality records; and licensee identified items.

**Results**

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

## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*G. Wadewitz, Project Manager
- T. Hayes, Nuclear Licensing Unit - Supervisor
- \*P. Wilson, Nuclear Licensing Unit Representative
- G. Lubinski, Electrical Engineering Unit Supervisor
- D. Thompson, Electrical Engineering Unit Representative
- B. Bruce, Electrical Maintenance Supervisor
- \*S. Johnson, Assistant Construction Engineer
- \*T. Trail, Nuclear Licensing Unit Representative
- \*R. Jones, Startup Test and Coordination
- W. Crabtree, QC Inspection Representative

Other licensee employees contacted included five construction craftsmen, three technicians, and four office personnel.

#### NRC Resident Inspector

T. Heatherly

#### \*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on September 17, 1982, with those persons indicated in paragraph 1 above. The licensee 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. Instrumentation (Cables and Terminations I) - Observation of Work and Work Activities (52063b) Unit-2

The inspector selected safety-related instrument cables 2-2PM-3-3925-A, 2-2PM-65-3726-B, 2-2PM-70-2286-A, 2-2FS-47-242-D, 2-2M-92-89-D, 2-3M-1-1193-A, 2-2PM-1-1353-K, 2-2PM-1-1616-J, and 2-2PM-3-1528-J for examination. The inspector examined the cable installation to verify routing, size and type of cable, protection and separation, grounding and bonding of wireways,

identification of wireways, conduits and cables, raceway loading, cable termination, and records for nondestructive tests. QCP 3.05, "Inspection of Cable Installation," and cable routing cards and termination cards were used in this examination.

Within the areas examined, no violations or deviations were identified.

6. Instrumentation (Cables and Termination I) - Review of Quality Records (52065B), Unit 2

The inspector selected safety-related instrument cables 2-2PM-3-3925-A, 2-2PM-65 3726-B, 2-2PM-70-2286-A, 2-2PS-47-242-D, 2-2MM-92-89-D, 2-3M-1-1193-A, 2-2PM-1-1353-K, 2-2PM-1-1616-J, and 2-2PM-3-1528-J for a quality record review. This review was performed to ascertain whether records meet established procedures and to insure that records reflect work accomplishment consistent with NRC requirements and SAR commitments. The inspector reviewed cable inspection reports and termination inspection reports to determine whether the correct size and type of cable, terminations and wireways have been installed, location and routing of wireways provide adequate separation and protection, cables are properly identified, records of cable pulling confirm that cable pull procedures were followed, and records confirm that nondestructive examinations, where applicable, and terminations were made.

Within the areas examined, no violations or deviations were identified.

7. Licensee Identified Items (LII)

- a. (Closed) 50-391/81-79 "Fire Protection Pump Motor Termination." The final report was submitted on January 20, 1982. The report has been reviewed and determined to be acceptable. The inspector held discussions with responsible licensee representatives, reviewed supporting documentation, and observed representative samples of work to verify that the corrective actions identified in the report have been completed. Temporary field modification TACF 81-114-26 was issued to correct connection points in the shutdown board. Connections were verified to be in accordance with ECN 3156.
- b. (Closed) 50-390/81-56 and 50-391/81-04, Improper Installation of Compression-Type Terminal on Single-Phase Static Inverters. A revised final report was submitted on July 20, 1981. The report has been reviewed and determined to be acceptable. The inspector held discussions with responsible licensee representatives, reviewed supporting documentation, and observed representative samples of work to verify that the corrective actions identified in the report have been completed. The applicable compression type terminal lugs were replaced and inspected by QC personnel.