UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30323

Report Nos.: 50-390/85-41 and 50-391/85-32

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 Conducted: May 28-31, 1985

Inspector: M. Merriweather for 6-19-85
T. D. Gibbons Date Signed

Approved by: T E Conlon 6-19-85
T. E. Conlon, Section Chief Date Signed
Engineering Branch
Division of Reactor Safety

SUMMARY

Scope: This routine, unannounced inspection entailed 27 inspector-hours at the site in the areas of licensee identified items, instrumentation work and work activities, quality records review, electrical cable and terminations work and work activities.

Results: No violations or deviations were identified.

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REPORT DETAILS

1. Persons Contacted

Licensee Employees

*G. Wadewitz, Construction Project Manager
T. W. Hayes, Supervisor, Nuclear Licensing Unit (NLU)
A. Greer, Supervisor, Electrical Quality Control (QC) Unit
G. Lubinski, Supervisor, Electrical Engineering Unit

Other licensee employees contacted included construction craftsmen, engineers, and office personnel.

NRC Resident Inspector

M. Shymlock, Senior Resident Inspector

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on May 31, 1985, with those persons indicated in paragraph 1 above. The inspector described the areas inspected and discussed in detail the inspection findings.

The licensee did not identify as proprietary any of the materials provided to or reviewed by the inspector during this inspection.

3. Licensee Action on Previous Enforcement Matters

This subject was not addressed in the inspection.

4. Unresolved Items

Unresolved items were not identified during the inspection.

5. Electrical (Cables and Terminations), Observation of Work and Work Activities (Unit 2) (51064B)

The inspector selected six control cables for examination to assure that the cable installation conforms to the required procedures. The cables selected were 2-3V-3-1066-A, 2-3V-3-1067-A, 2-3V-3-1085A, 2-3V-1086-A, 2-3V-3-1087A and 2-2PM-30-5050-A. The cables were recently installed, but not terminated at the time of the inspection. The licensee QC section performs a 10% sample verification of cable routing using signal tracing. The inspector noted that cables 2-3V-3-1066-A and 2-2PM-30-5050A were signal traced by the QC section. The inspector examined the above cables to assure that the cable was installed in accordance with the QAM. The inspector examined the

following areas: storage, handling, issue control, use of specified material, cable identification, work and QC procedures, location, routing, physical separation, protection, raceway supports, raceway identification, cable pulling and raceway loading.

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

6. Instrumentation (Components and System I) Observation of Work and Work Activities (Unit 2) (52063B)

The inspector selected two flow control valve loops and two temperature loops which are part of the control of the Residual Heat Removal (RHR) heat exchangers. The inspector selected two pressure gauges which monitor RHR heat exchanger suction pressure. The devices selected are as follows:

LOOP	DEVICES
2-LPF-74-16	2-FCV-74-16 2-FM-74-16 2-HIC-74-16A 2-HIC-74-16C 2-XS-74-16
2-LPF-74-28	2-FCV-74-28 2-FM-74-28 2-HIC-74-28A 2-HIC-74-28C 2-XS-74-28
2-LPT-74-29	2-TE-74-29 2-TM-74-29 2-TR-74-14P002
2-LPT-74-39	2-TE-74-39 2-TM-74-39 2-TR-74-25P002
Pressure Gauges	2-PI-74-4 2-PI-74-22

The instrumentation was examined to assure that the FSAR, procedures and drawing requirements were complied with in the areas of location, placement, mounting, identification and tubing installation. The devices were not calibrated at this time. The inspection records were examined to assure that the required inspections were completed.

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

7. Instrumentation (Components and System 1) Review of Quality Records (Unit 2) (52055B)

The inspector examined the QC records for the instruments identified in paragraph 6 above. The records for receiving inspection, storage, handling and identification were examined. The installation records for 2-PI-74-4 and 2-PT-74-27 were examined to assure that the proper instrument was installed, the rack was adequately braced and the required inspections have been completed.

The inspector examined seven nonconforming Condition Reports (NCR) to assure that they were complete, legible, reviewed by QA and management, and retrievable. The NCRs clearly identified the discrepancy and adequate corrective action was assigned and completed.

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

8. Instrumentation (Components and System II) Observation of Work and Work Activities (Unit 2) (52054B)

The inspector selected two shield building ventilation flow transmitter loops for examination. The loops are identified as follows:

LOOP	DEVICES
2-LPF-65-78	2-FT-65-78 2-FI-65-78
2-LPF-65-79	2-FT-65-78 2-FT-65-79

The inspector examined the receiving inspection reports, quality releases, identification, location, protection, cleanliness, nonconformance control and quality records. The devices were not calibrated at this time. These loops indicate the air flow in the shield building ventilations system.

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

9. Instrumentation (Components and Systems II) Review of Quality Records (Unit 2) (52056B)

The inspector examined the QC records for the instruments identified in paragraph 8 above. The records were examined to assure that the requirements of the QAM are complied with in the areas of receiving inspection, vendor releases, vendor test reports, storage, handling, cleanliness, identification, installation and required inspections.

Seven NCRs were examined to assure that they were complete, legible, reviewed by QC and management, and retrievable. The NCRs clearly identified the problem. The corrective actions appeared adequate and work was in progress.

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

10. Licensee Identified Items

(Closed) Item 390/81-66 and 391/81-62 Environmental Qualification of Electrical Equipment (10 CFR 50.55(e))

The final reports were submitted on December 15, 1983 and April 30, 1985. The licensee has submitted the "Electrical Equipment Environmental Qualification Report" to NRR under the requirements of 10 CFR 50.49. The licensee has an environmental qualification program in place and specific information on the status of individual components has been provided to NRC-NRR.

This CDR was used by the licensee to inform the NRC of electrical components that did not have documentation to support environmental qualification. The CDR is now unnecessary as all information has been submitted to NRR.