



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

Report Nos.: 50-390/78-26 and 50-391/78-22

Docket Nos.: 50-390 and 50-391

License Nos.: CPPR-91 and CPPR-92

Category: A2, A2

Licensee: Tennessee Valley Authority
830 Power Building
Chattanooga, Tennessee 37401

Facility Name: Watts Bar Nuclear Plant, Units 1 and 2

Inspection at: Watts Bar Dam, Tennessee

Inspection conducted: October 10-13, 1978

Inspector: D. K. Walters

Reviewed by:

J. C. Bryant
J. C. Bryant, Chief

Engineering Support Section No. 1

Reactor Construction and Engineering Support Branch

11/2/78
Date

Inspection Summary

Inspection on October 10-13, 1978 (Report Nos. 50-390/78-26 and 50-391/78-22)

Areas Inspected: Physical storage and records for electric motors; installation, storage and records for safety-related cables. The inspection involved 26 inspector-hours on the site by one NRC inspector.

Results: No items of noncompliance or deviation were identified.

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DETAILS I

Prepared by:

D. K. Walters
D. K. Walters, Electrical Engineer
Engineering Support Section No. 1
Reactor Construction and Engineering
Support Branch

2 NOV 78
Date

Dates of Inspection: October 10-13, 1978

Reviewed by:

J. C. Bryant
J. C. Bryant, Chief
Engineering Support Section No. 1
Reactor Construction and Engineering
Support Branch

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1. Persons Contacted

Tennessee Valley Authority (TVA)

*T. B. Northern, Jr., Project Manager
*A. W. Rogers, Site QA Supervisor
*J. H. Purdue, Supervisor, Electrical Engineering Unit (EEU)
*R. L. Heatherly, Supervisor, QC&R Unit
*H. C. Richardson, Construction Engineer
*J. G. Shields, Assistant Construction Engineer
*S. Johnson, Assistant Construction Engineer
*R. D. Anderson, Electrical Engineer, EEU
*E. J. Austin, Assistant Supervisor, EEU
*W. K. Anders, OEDC, QA
J. E. Hoffert, Electrical Engineer
J. R. Vineyard, Electrical Engineer
J. E. Woolbright, Electrical Engineer
J. T. Baker, Electrical Engineering Aid
T. Deakins, Electrical Engineering Aid
K. Jenkins, Electrical Foreman

*Denotes those present at exit interview.

2. Licensee Actions on Previous Inspection Findings (Units 1 and 2)

The licensee actions on previous inspection findings were not reviewed during this inspection.

3. Unresolved Items

There were no new unresolved items identified during this inspection.

4. Independent Inspection (Unit 1 and Unit 2)

The in-place storage of component cooling water (CCW), safety injection (SI) and residual heat removal (RHR) pump motors was inspected. Specific storage and maintenance requirements are specified on TVA form "Rotating Equipment Storage and Periodic Maintenance Record" per TVA Quality Control Procedure (QCP) WBNP-QCP 3.1, "Handling, Storage and Maintenance of Permanent Electrical and Instrumentation Material." The selected pump motors were observed to have heat applied to windings, lubricant on the bearings and adequate protection from work activities. The pump motors listed below were stored in accordance with the specified requirements.

<u>Motor Numer</u>	<u>Pump</u>
1-MTR-63-10A	Safety Injection Pump
1-MTR-63-15B	Safety Injection Pump
1-MTR-74-10A	RHR pump
1-MTR-74-20B	RHR pump
2-MTR-74-10A	RHR pump
2-MTR-74-20B	RHR pump
1-MTR-70-46A	CCW pump
1-MTR-70-38B	CCW pump
2-MTR-70-59A	CCW pump
2-MTR-70-33B	CCW pump

Receipt and storage records were reviewed for compliance with TVA QCP 3.1. Periodic maintenance requirements and the date performed are documented on TVA form "Rotating Equipment Storage and Periodic Maintenance Record."

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

5. Electrical (Cables and Terminations I) Observation of Work and Work Activities, Review of Quality Records (Unit 1 and Unit 2)

The inspector selected 6900V power cables 1-5PP-67-700B, 1-5PP-67-712B, 0-5PP-82-351A, 0-5PP-82-350A, 2-4PL-26-5018B and 2-4PL-26-5017B for inspection. 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 breaker panels to the cable trays and from the component to the conduit. The terminations for all ends of the selected cables could not be verified because terminations had not been completed in all cases. Completed "PULL" and "TERMINATION" slips were in accordance with procedure TVA WBNP-QCP-3.5.

Quality records for the selected cables were reviewed to assure that FSAR and QAM requirements were met in the areas of receipt inspection, materials certification and installation. All cable records reviewed for the selected cables were traceable to the TVA I&T certification status reports which are issued by the TVA's I&T branch per TVA WBNP-QCP-3.1. Vendor certifications and test data were not reviewed because these records are maintained off-site by TVA's I&T branch.

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

6. Licensee Identified Items (50.55(e))

- a. (Open) 50.55(e) (390/78-26-01 and 391/78-22-01), "Construction Crane Cable Failure - NCR-1274R." On October 5, 1978, TVA notified the Region II Watts Bar Resident Inspector that the crane cable on the construction gantry crane located on the roof of the control building parted while transporting a skip pan loaded with approximately 8 tons of equipment shim plates. The skip pan fell on the roof of the control building immediately over the switchyard protective relay cabinets. The section of the switchyard serving as the 500KV tieline tripped out as a result of the impact on the structure. TVA is investigating structural damage to the control building.
- b. (Open) 50.55(e) (390/78-26-02 and 391/78-22-02), "Safety Injection System Wiring Errors." On September 27, 1978, TVA notified RII that due to errors in the design wiring diagrams, automatic switching of the Safety Injection System to the containment sump would not be accomplished. TVA is reviewing the corrective actions.

7. Exit Interview

The inspector met with the licensee representatives denoted in paragraph 1. The scope and findings of the inspection were discussed. The resident inspector attended the exit interview. There were no items of noncompliance or deviation identified.