



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
230 PEACHTREE STREET, N.W. SUITE 1217
ATLANTA, GEORGIA 30303

Central File
50-310
391

In Reply Refer To:
RII:TDG
50-390/78-9
50-391/78-8

MAY 16 1978

Tennessee Valley Authority
Attn: Mr. N. B. Hughes
Manager of Power
830 Power Building
Chattanooga, Tennessee 37401

Gentlemen:

This refers to the inspection conducted by Mr. T. D. Gibbons of this office on April 12-14, 1978, of activities authorized by NRC Construction Permit Nos. CPPR-91 and CPPR-92 for the Watts Bar Nuclear Plant Unit Nos. 1 and 2 facilities, and to the discussion of our findings held with Mr. T. B. Northern, Jr. at the conclusion of the inspection.

Areas examined during the inspection and our findings are discussed in the enclosed inspection report. Within these areas, the inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector.

Within the scope of this inspection, no items of noncompliance were disclosed.

In accordance with Section 2.790 of the NRC's "Rules of Practice", Part 2, Title 10, Code of Federal Regulations, a copy of this letter and the enclosed inspection report will be placed in the NRC's Public Document Room. If this report contains any information that you (or your contractor) believe to be proprietary, it is necessary that you make a written application within 20 days to this office to withhold such information from public disclosure. Any such application must include a full statement of the reasons on the basis of which it is claimed that the information is proprietary, and should be prepared so that proprietary information identified in the application is contained in a separate part of the document. If we do not hear from you in this regard within the specified period, the report will be placed in the Public Document Room.

60

MAY 16 1978

Should you have any questions concerning this letter, we will be glad to discuss them with you.

Sincerely,



in C. E. Murphy, Chief
Reactor Construction and Engineering
Support Branch

Enclosure:

RII Inspection Report Nos.
50-390/78-9
50-391/78-8

cc w/encl:

Mr. J. E. Gilleland
Assistant Manager of Power
830 Power Building
Chattanooga, Tennessee 37401

Mr. T. B. Northern, Jr.
Project Manager
Watts Bar Nuclear Plant
P. O. Box 2000
Spring City, Tennessee 37381

Mr. C. S. Walker
400 Commerce Street
W9D199
Knoxville, Tennessee 37902



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
230 PEACHTREE STREET, N.W. SUITE 1217
ATLANTA, GEORGIA 30303

Report Nos.: 50-390/78-9 and 50-391/78-8

Docket Nos.: 50-390 and 50-391

License Nos.: CPPR-91 and CPPR-92

Categories: A2 and A2

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

Facility Name: Watts Bar Units 1 and 2

Inspection at: Watts Bar Dam, Tennessee

Inspection conducted: April 12-14, 1978

Inspector: T. D. Gibbons

Reviewed by:

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

Engineering Support Section No. 1

Reactor Construction and Engineering Support Branch

5/15/78
Date

Inspection Summary

Inspection on April 12-14, 1978 (Report Nos. 50-390/78-9 and 50-391/78-8)

Areas Inspected: Electrical systems and component, work activities and quality records. Inspection involved 25 inspector hours on site by one NRC inspector.

Results: There were no items of noncompliance or deviations identified.

DETAILS I

Prepared by: J. D. Gibbons 5/15/78
T. D. Gibbons, Electrical Engineer Date
Engineering Support Section No. 1
Reactor Construction and Engineering
Support Branch

Dates of Inspection: April 12-14, 1978

Reviewed by: J. C. Bryant 5/15/78
J. C. Bryant, Chief Date
Engineering Support Section No. 1
Reactor Construction and Engineering
Support Branch

1. Persons Contacted

Tennessee Valley Authority (TVA)

- *T. B. Northern, Jr., Project Manager
- *A. W. Rogers, Site QA Supervisor
- *J. H. Perdue, Electrical Engineering Unit Supervisor
- *E. Austin, Electrical Engineer
- *R. D. Anderson, Electrical Engineer

*Denotes those attending the exit interview.

2. Licensee Actions on Previous Inspection Findings

Licensee actions on previous inspection findings were not examined during this inspection.

3. Unresolved Items

There were no new unresolved items identified during this inspection.

4. Independent Inspection Effort

The inspector examined the batching, delivery and testing of concrete on a wall placement on Unit 1 containment. The inspector observed the QC inspectors at the batch plant and at the ground delivery area as they performed slump tests, air test unit weights test and the casting of cylinders. The inspector examined twenty-five fire extinguishers in the reactor building and the auxiliary building to assure that the monthly inspection had been recorded.

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

5. Electrical (Components and Systems) Observation of Work and Work Activities (Units 1 and 2)

The inspector selected the following equipment for inspection:

- a. Emergency Diesel Generator, (EDG) Starting and Local Control Panel
 - (1) 1-PNL-82-AA
 - (2) 2-PNL-82-AA
- b. Class IE 6900 Volt Preferred Buss and Breakers
 - (1) 1-BD-211-A-A
 - (2) 2-BD-211-A-A
 - (3) Breakers controlling EDG, Class IE 4160/480 transformer and safety injection motor
- c. 6900/480V Buss and Breakers
 - (1) 1-BD-212-A1-A
 - (2) 1-BD-212-A2A
 - (3) 2-BD-212-A1-A
 - (4) 2-BD-212-A2-A
- d. 480 Volt Motor Control Centers
 - (1) 1-MCC-213-A1-A
 - (2) 1-MCC-214-A1-A
 - (3) 1-MCC-214-A2-A
 - (4) 2-MCC-213-A1-A
 - (5) 2-MCC-214-A1-A
 - (6) 2-MCC-214-A2-A

The areas inspected included receiving inspection, storage identification, handling, location, separation, nonconformance control and construction inspection. The post installation protection and cleanliness were examined. The requirements for the above work consisted of the FSAR, vendor instruction and site procedures. The qualification of inspectors, and procedure revision control were reviewed.

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

6. Electrical (Components and Systems) Review of Quality Records (Units 1 and 2)

The inspector reviewed the quality records of the equipment inspected in Paragraph 5. The records confirm that receiving inspection, and source inspections had been conducted. The Inspection and Test

group conducted the source inspection and issued shipping releases after all inspection and testing confirmed that wiring verification and installation inspections were conducted. The requirements for the above are the FSAR.

The inspector selected 20 nonconformance reports (NCRs) for review. In each case the current status was identified. The NRCs were complete, reviewed as required and the resolution status was identified. The NCRs reviewed are identified as follows: 383R, 83R, 70, 140, 141, 142, 1170, 1099R, 1092R, 1079R, 1070R, 1072, 1052R, 1051R, 1027, 1002, 995R, 976R, 942R and 928R.

A review of five QA auditor's and four inspector's records, including training and testing reports verified their qualification for their duties.

Four QA audits (WB-E-78-01, 02, 03 and 05) were reviewed to verify that the required audits were conducted and that the deficiencies were corrected. The corrective actions included steps to prevent repetition of the deficiency.

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

7. Exit Interview

The inspector met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on April 14, 1978. The inspector summarized the scope of the inspection, work observation and quality records concerning electrical components.

There were no items of noncompliance identified.