



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

*Central File*  
*50-390*

JUN 26 1978

In Reply Refer To:  
RII:DGH  
50-390/78-14

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. D. G. Hinckley of this office on June 5-7, 1978, of activities authorized by NRC Construction Permit No. CPPR-91 for the Watts Bar Nuclear Plant, Unit 1 facility, and to the discussion of our findings held with Mr J. Groves 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 inspectors.

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.

*BD*

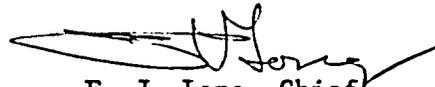
JUN 26 1978

Tennessee Valley Authority

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

Sincerely,



F. J. Long, Chief  
Reactor Operations and Nuclear  
Support Branch

Enclosure:  
Inspection Report No. 50-390/78-14

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. J. F. Cox  
400 Commerce Street  
W9D214  
Knoxville, Tennessee 37902



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

Report No.: 50-390/78-14

Docket No.: 50-390

License No.: CPPR-91

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

Facility Name: Watts Bar 1

Inspection at: Watts Bar Site

Inspection conducted: June 5-7, 1978

Inspectors: D. G. Hinckley  
T. J. McHenry

Reviewed by:

H. C. Dance  
H. C. Dance, Chief  
Reactor Projects Section No. 1  
Reactor Operations and Nuclear Support Branch

6/26/78  
Date

Inspection Summary

Inspection on June 5-7, 1978 (Report No. 50-390/78-14)

Areas Inspected: Routine, unannounced inspection of the overall preoperational test program, operational staffing and tour of plant areas. The inspection involved 32 inspector-hours onsite by two NRC inspectors.

Results: Of the three areas inspected, no items of noncompliance or deviations were identified.

## DETAILS I

Prepared by:

D. G. Hinckley  
D. G. Hinckley, Reactor Inspector  
Reactor Projects Section No. 1  
Reactor Operations and Nuclear  
Support Branch

6/26/78  
Date

Thomas J. McHenry  
T. J. McHenry, Reactor Inspector  
Reactor Projects Section No. 1  
Reactor Operations and Nuclear  
Support Branch

6/26/78  
Date

Dates of Inspection: June 5-7, 1978

Reviewed by:

H. C. Dance  
H. C. Dance, Chief  
Reactor Projects Section No. 1  
Reactor Operations and Nuclear  
Support Branch

6/26/78  
Date

1. Persons Contacted

J. Groves, Plant Superintendent  
B. Willis, QA Supervisor  
M. Jones, Preoperational Test Supervisor

2. Licensee Action on Previous Inspection Findings

None

3. Unresolved Items

None

4. Exit Interview

A meeting was held on June 7, 1978, with J. Groves, Plant Superintendent, and selected members of his staff. The scope and findings of the inspection were discussed.

5. Overall Preoperational Test Program

An inspector performed an indepth review of the following aspects of the licensee's preoperational test program: test organization, test

program description, test program administration, test procedures, and equipment protection and cleanliness. A general review of the following aspects of the test program were also reviewed: engineering drawings and vendors manuals; design changes and modifications; temporary modifications, jumpers, and bypasses; maintenance during preoperational testing; test and measuring equipment; and test personnel training.

Selected standard practices, instructions and procedures were reviewed to ascertain whether the test program had been established in accordance with the commitments made in Sections 14.2 and 17.1A.11.4 of the FSAR. The following were reviewed:

- OQAM, Part II, Section 4.1, Preoperational Test Program.
- ID-QAP-1.1, Transfer of Construction and Engineering Design Responsibilities
- ID-QAP-6.1, Drawing Control
- ID-QAP-11.1, Preoperational Testing
- WB 3.3.1, Watts Bar Nuclear Plant Preoperational Test Program
- WB 6.1.3, Cleanliness Criteria for Piping System
- WB 7.1.1, Watts Bar Nuclear Plant Maintenance Program
- WB 14.1, Procedure for Initial Operation, Testing, and Transfer of Equipment and Auxiliaries
- WB 14.4, Performance of Initial Testing, Calibration and Maintenance of Permanent Plant Instrumentation
- IL No. 2, Preoperational Test Program - Test Assignments
- IL No. 3, Preparation, Review and Approvals of Preoperational Test Instructions
- TI 10, Calibration Program for Measuring and Test Equipment
- TI 27, Chemical Specifications (Cleanliness Criteria for Piping Systems)

- RSL No. 13, Calibration of Test Instruments

Within the areas reviewed, no problems were identified.

#### 6. Operational Staffing

An inspector reviewed the staff qualifications and administrative controls for staffing the Watts Bar plant staff. Qualifications and staffing were reviewed for conformance to the commitments of Section 13.1.2 of the FSAR, ANSI N18.1-1971, ANSI N45.2.6-1973 and Regulatory Guide 1.8-1975. The following plant documents were reviewed:

- Operational Quality Assurance Manual, Part III, Section 6.1, "Selection and Training of Personnel for Nuclear Power Plants"
- WBA 14, Employee Selection and Evaluation
- WBA 1, System of Standard Practices

Selected personnel records were reviewed to determine implementation of the licensee's administrative and QA procedures relating to operational staffing. The inspector discussed with the licensee the requirements of ANSI N45.2.6 for operating staff involved in construction phase preoperational activities. And also indicated that implementation of these requirements would be reviewed during a subsequent inspection. Within the areas inspected, no discrepancies were identified.

#### 7. Site Tour

The inspectors toured portions of the Unit 1 and 2 auxiliary buildings, reactor buildings, turbine building, control rooms, emergency diesel generator building and general site areas. Particular attention was given to housekeeping and plant cleanliness. Construction activities were also observed. No problems were identified.