

UNITED STATES
ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS
REGION II - SUITE 818
230 PEACHTREE STREET, NORTHWEST
ATLANTA, GEORGIA 30303

TELEPHONE: (404) 526-4503

JAN 21 1975

In Reply Refer To:
RO:II:VLB
50-390/75-1
50-391/75-1

Tennessee Valley Authority
ATTN: Mr. J. E. Watson
Manager of Power
818 Power Building
Chattanooga, Tennessee 37401

Gentlemen:

This refers to the inspection conducted by Messrs. V. L. Brownlee and T. D. Gibbons of this office on January 8-10, 1975, of activities authorized by AEC Construction Permit Nos. CPPR-91 and CPPR-92 for the Watts Bar Nuclear Plant, Units 1 and 2 facilities, and to the discussion of our findings held by Messrs. Brownlee and Gibbons with Mr. Killian 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 examination of procedures and representative records, interviews with personnel, and observations by the inspector.

Within the scope of this inspection, no violations were disclosed.

We have also examined actions you have taken with regard to previously identified enforcement matters and unresolved items. The status of these items is identified in Sections II and IV of the summary of the enclosed report.

In accordance with Section 2.790 of the AEC'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 AEC's Public Document Room. If this report contains any information that you believe to be proprietary, it is necessary that you submit a written application to this office requesting that such information be withheld from public disclosure. If no proprietary information is identified, a written statement to that effect should be submitted. If an application is submitted, it must fully identify the bases for which information is

JAN 21 1975

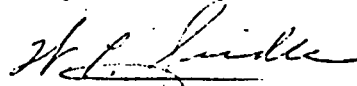
Tennessee Valley Authority

-2-

claimed to be proprietary. The application should be prepared so that information sought to be withheld is incorporated in a separate paper and referenced in the application since the application will be placed in the Public Document Room. Your application, or written statement, should be submitted to us within 20 days. If we are not contacted as specified, the enclosed report and this letter may then be placed in the Public Document Room.

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

Very truly yours,

 acting

Norman C. Moseley
Director

Enclosure:

RO Inspection Report Nos.
50-390/75-1 and 50-391/75-1

Letter to Tennessee Valley Authority from N. C. Moseley
dated JAN 21 1975 and RO Rpt. Nos. 50-390/75-1
and 50-391/75-1

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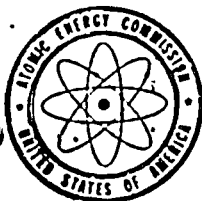
*Local PDR

*NSIC

*TIC

*State

*To be dispatched at a later date.



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REGION II - SUITE 818
230 PEACHTREE STREET, NORTHWEST
ATLANTA, GEORGIA 30303

TELEPHONE: (404) 626-4503

RO Inspection Report Nos. 50-390/75-1 and 50-391/75-1

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

Facility Name: Watts Bar Nuclear Plant Units 1 and 2
Docket Nos.: 50-390 and 50-391
License Nos.: CPPR-91 and CPPR-92
Category: A2/A2

Location: Spring City, Tennessee

Type of License: W PWR, 1160 Mwe

Type of Inspection: Routine, Announced

Dates of Inspection: January 8-10, 1975

Dates of Previous Inspection: December 4-5, 1974
December 10-13, 1974

Principal Inspector: V. L. Brownlee, Reactor Inspector
Facilities Section
Facilities Construction Branch

Accompanying Inspectors: T. D. Gibbons, Reactor Inspector
Engineering Section
Facilities Construction Branch

Other Accompanying Personnel: None

Principal Inspector: V. L. Brownlee
V. L. Brownlee, Reactor Inspector
Facilities Section
Facilities Construction Branch

1/28/75
Date

Reviewed By: J. C. Bryant
J. C. Bryant, Senior Inspector
Facilities Section
Facilities Construction Branch

1/28/75
Date

SUMMARY OF FINDINGS

I. Enforcement Action

A. Violations

None

B. Safety Items

None

II. Licensee Action on Previously Identified Enforcement Matters

A. Violations

74-6-A1-(II) Procedures (Unit 1)

TVA submitted their letter of response on January 2, 1975. Discussion with site personnel and review of site records verifies implementation of letter commitments. This item is closed. (Details I, paragraph 4)

B. Safety Items

None

III. New Unresolved Items

None

IV. Status of Previously Reported Unresolved Items

74-4/1 Malfunction of Safety Related Switches (RO Bulletin 74-6)

TVA has submitted letters of response dated July 3, September 18, and October 18, 1974, identifying their proposed corrective actions and plans. TVA has arranged for inspection and documentation of all type switches covered by the RO Bulletin. This item is closed.

74-5/1 Valve Wall Thickness Verification Program

TVA (DED) will submit a valve wall thickness program that meets Region II letters of June 30, 1972, and February 16, 1973. This item remains open.

74-6/1 Letter and Analysis Report on Concrete Pour Collapse at Control Building (10 CFR 50.55(e))

TVA has submitted an interim report, December 6, 1974. The final report will be submitted by January 15, 1975. This item remains open.

74-7/1 Weld Material Control

TVA will evaluate the CB&I practice of issuing low hydrogen electrodes for a time period of one shift (approximately 10 hours). This item remains open.

74-7/2 TVA Surveillance Procedure (DEC-QCP-4.6, Rev. 0)

The section dealing with instrument calibration will be revised to establish more clearly the criteria under which TVA will request calibration. This item remains open.

74-7/3 Stop Work Authority

The CB&I QA Manual does not provide field QC (Welding Supervisors) with stop work authority. TVA has agreed to pursue this matter with CB&I. This item remains open.

V. Design Changes

None

VI. Unusual Occurrences

None

VII. Other Significant Findings

None

VIII. Management Interview

The inspectors met with J. C. Killian, Project Manager, members of his staff, and the DED and OEDC staffs. TVA was informed that Previously Identified Enforcement Item, 74-6-A1-(II), and Unresolved Item, 74-4/1 are resolved and that no violations or unresolved items resulted from this inspection.

DETAILS I

Prepared by:

V. L. Brownlee
V. L. Brownlee, Reactor Inspector
Facilities Section
Facilities Construction Branch

1/20/75
Date

Thomas D. Gibbons
T. D. Gibbons, Reactor Inspector
Engineering Section
Facilities Construction Branch

1/20/75
Date

Dates of Inspection: January 8-10, 1975

Reviewed by:

J. C. Bryant
J. C. Bryant, Senior Inspector
Facilities Section
Facilities Construction Branch

1/20/75
Date

All information in Details I applies equally to Units 1 and 2 except where information is identified with a specific reactor.

1. Individuals Contacted

Tennessee Valley Authority (TVA)

J. C. Killian - Project Manager
T. B. Northern - Construction Engineer
J. M. Lamb - Mechanical Engineering Unit Supervisor
L. J. Johnson - Mechanical Engineer
R. L. Heatherly - QC and Records Supervisor
A. R. White - General Construction Superintendent
J. H. Perdue - Electrical Engineering Unit Supervisor
T. W. Hayes - Electrical Engineer
S. Johnson - Principal Mechanical Engineer
A. W. Rogers - QA Engineer
T. V. Abbatiello - QA Engineer, DED
L. G. Herbert - QA Evaluator, OEDC
J. A. Holmes - I&C Engineer
J. P. Knight - QA Manager, OEDC
H. E. McConnell - Principal Nuclear Engineer, DED
H. B. Rankin - Electrical Engineer, DED
J. Bradley - Electrical Engineer, DED
L. C. Northland - Site QA Supervisor
H. S. Sheppard - Civil Engineering Unit Supervisor

2. Documents Examined

- a. SAR Chapters 7 & 8
- b. Licensing Questions and Answers
- c. Specification for 6900V Auxiliary Power Switchboards #1765
- d. Specification for Nuclear Instrumentation Triax Cable
- e. Design Criteria for Separation of Electrical Equipment and Wiring - No. WB-DC-30-4, Rev. 1
- f. Division of Design, Engineering Assurance Manual Section 3 (Procedures 3.01 thru 3.16)
- g. Division of Construction QC Procedures 3.1, Rev. 1, "Handling, Storage and Maintenance of Permanent Electrical Material"
- h. Division of Construction QC Procedure 3.2, Rev. 1, "Inspection of Embedded Conduit, Boxes and Grounding"
- i. Division of Construction QC Procedure 3.3, Rev. 0, "Installation, Inspection and Documentation of Exposed Rigid and Flexible Conduit"
- j. Division of Construction QC Procedure 3.8, Rev. 0, "Cable Termination Hand Tool Certification"
- k. Division of Construction QC Procedure 3.4, "Preliminary Installation, Inspection and Documentation of Cable Tray Systems"
- l. Division of Construction QC Procedure 3.7, "Preliminary Equipment Monitoring Program"
- m. Drawings, Electrical One Line, Tray Layouts, and Equipment Layout

3. Electrical, Instrumentation and Control

This inspection was conducted at both the Knoxville office, Division of Engineering Design, and at the Watts Bar 1 and 2 site.

a. Knoxville

Discussions with TVA QA and design engineers, selective examination of the engineering assurance procedures, design specifications, equipment and material specifications, equipment layout and cable tray routing drawings indicate that the design, procurement, construction and QA commitments of the PSAR are being incorporated into the engineering documents.

b. Watts Bar Site

Discussions with QA/QC and construction engineers, review of QC procedures, storage facilities and a selective record review indicate that field personnel are knowledgeable of the requirements of engineering design and QA/QC commitments. The field is developing Division of Construction QC procedures, field QC procedures and field construction procedures. Procedure development is

ahead of related construction activities. The computer equipment monitoring program, which is now in the preliminary stages of field implementation, should provide a positive control of construction and QA/QC records when fully implemented.

4. Previously Reported Violation 74-6-A1-(II) Procedures

TVA has submitted their letter of response dated January 2, 1975, which identified corrective actions and plans to correct the specific item and prevent recurrence of similar type discrepancies. Discussion with TVA engineers and review of records confirm implementation of the corrective actions and plans. This item is closed.