



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

Report No.: 50-390/79-06

Licensee: Tennessee Valley Authority
830 Power Building
Chattanooga, Tennessee 39401

Facility Name: Watts Bar 1

Docket No.: 50-390

License No.: CPPR-91

Inspection at Watts Bar Site near Spring City, Tennessee

Inspector: *A. G. Wagner for*
A. G. Wagner

3/8/79
Date Signed

Approved by: *R. D. Martin for*
R. D. Martin, Section Chief, RONS

3/8/79
Date Signed

SUMMARY

Inspection on February 12-14, 1979

Areas Inspected

This routine unannounced inspection involved 19 inspector-hours onsite in the areas of the preoperational test program, preoperational test procedure preparation, preoperational test procedures review.

Results

Of the areas inspected, no apparent items of noncompliance or deviations were identified.

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DETAILS

1. Persons Contacted

Licensee Employees

- *J. Groves, Plant Superintendent
- *M. Jones, Preoperational Test Supervisor
- *B. Willis, Quality Assurance Staff Supervisor
- *H. Bennett, Preoperational Test Director

*Attended exit interview.

2. Exit Interview

The inspection scope and findings were summarized on February 14, 1979 with those persons indicated in Paragraph 1 above. The items in the following paragraphs were discussed.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Preoperational Testing

Preoperational procedure status and test schedule was discussed with licensee management personnel.

6. Preoperational Test Procedure Review

Preoperational test procedures were reviewed for conformance with Regulatory Guide 1.68, 1.79, FSAR Table 14.2-1, Operational Quality Assurance Manual Part II Section 4.1, FSAR Sections 3.9.2, 5.5, 6.3 and NRC Licensing questions Q 040.5, Q 040.28, Q 212.36, Q 212.53 included in the Watts Bar FSAR.

- a. No deficiencies were noted during the review of the following procedure.

W 3.1A2 SIS - Acuation and Alarm Tests

- b. During review of the following procedures the inspector identified items which must be resolved prior to implementation of these procedures.

(1) W 3.1A1 SIS - Integrated Flow Testing - Review Copy

The procedure is not written in accordance with Regulatory Guide 1.68 Appendix 'C' and TVA Operational Quality Assurance Manual Part II, Section 4.1, paragraph 4.0 in that:

- (a) The procedure does not require testing prerequisites to be verified as Test Prerequisites.
- (b) The procedure does not require system lineups to be verified as System Initial Conditions.
- (c) Testing precautions are not identified as Special Precautions
- (d) Acceptance Criteria for recorded data is not specified in the procedure or verified to be satisfactory.

A licensee supervisory representative stated that these requirements would be reviewed and appropriate action taken. The inspector will review this item during a subsequent inspection. (390/79-06-01)

(2) W 3.1B SIS - Accumulators and Related System Performance Test

- Approved 7/11/78

- (a) The test does not verify that the accumulators discharge into the reactor coolant systems as required by FSAR table 14.2.1.
- (b) The acceptance criteria for accumulator level alarm setpoint are not clearly defined as required by Regulatory Guide 1.68 Appendix C and TVA Operational Quality Assurance Manual Part II Section 4.1.
- (c) The acceptance criteria for the accumulator tank isolation valves does not agree with TVA response to FSAR question Q 040.5.
- (d) The test does not record the installation of the temporary level system in the temporary conditions log as required by Watts Bar Standard Practices Manual Section 3.3.1.
- (e) The test does not include the requirements for Dynamic Testing and Analysis as required by FSAR Section 3.9.2 and Regulatory Guide 1.79.

A licensee supervisory representative stated that these requirements would be reviewed and appropriate action taken. The inspector will review this item during a subsequent inspection. (390/79-06-02)

- (3) W-3.1.E SIS - Residual Heat Removal (RHR) Pump and Related Injection System Performance Test. - Review Copy
- (a) The acceptance criteria for RHR pump flow and response time is not clearly defined as required by Regulatory Guide 1.68, Appendix 'C' and TVA Operational Quality Assurance Manual, Part II, Section 4.1.
 - (b) The RWST and sump instrumentation and switchover from injection to recirculation part of the test is incomplete and cannot be reviewed at this time.
 - (c) All of the Emergency Core Cooling System and Containment Spray System interlocks as described in the TVA response to FSAR question Q 040.28 are not included in the test.
 - (d) The acceptance criteria for the valve timing parts of the test are not included as required by Regulatory Guide 1.68 Appendix 'C' and TVA Operational Quality Assurance Manual, part II, Section 4.1.

A licensee supervisory representative stated that these requirements would be reviewed and appropriate action taken. The inspector will review this item during a subsequent inspection. (390/06-03)

7. Area of Inspector Concern

It was noted by the inspector that information contained in TVA responses to FSAR questions is not being incorporated into or used during the preparation of preoperational test instructions.

8. Plant Tour

The inspector toured portions of Units 1 and 2 auxiliary buildings, reactor buildings, control bays, and diesel generator building. Housekeeping and general cleanliness were observed. No deficiencies were identified.