



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA ST., N.W., SUITE 3100  
ATLANTA, GEORGIA 30303

Report Nos. 50-390/82-28, 50-391/82-25

Licensee: Tennessee Valley Authority  
500A Chestnut Street  
Chattanooga, TN 37401

Facility Name: Watts Bar Nuclear Plant

Docket Nos. 50-390 and 50-391

License Nos. CPPR-91 and CPPR-92

Inspection at Watts Bar site near Spring City, Tennessee

Inspector: M. Thomas  
M. Thomas

8/25/82  
Date Signed

Approved by: Frank Jape  
F. Jape, Section Chief  
Engineering Inspection Branch  
Division of Engineering and Technical Programs

8/25/82  
Date Signed

SUMMARY

Inspection on August 9-13, 1982

Areas Inspected

This routine, unannounced inspection involved 34 inspector-hours on site in the areas of preoperational test procedure review, 10 CFR 50.55(e) items, and follow up on previous inspector identified items.

Results

Of the three areas inspected, no violations or deviations were identified.

## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

- W. T. Cottle, Plant Superintendent
- \*R. L. Lewis, Assistant Plant Superintendent
- \*M. K. Jones, Preop Test Section Supervisor
- \*R. H. Smith, Preop Test Section Assistant Supervisor
- \*D. R. Spangler, Construction QA Engineer
- \*J. E. Engelhardt, Compliance Section
- \*P. Wilson, Nuclear Licensing Unit
- V. Powell, Mechanical Engineering Unit A Supervisor
- T. Hayes, Nuclear Licensing Unit Supervisor
- J. Ballard, Mechanical Engineering Unit B Assistant Supervisor
- R. Jones, Startup Test and Coordination Unit Assistant Supervisor
- D. L. Lester, Nuclear and Instrumentation Unit Supervisor, Preop Test Section

Other licensee employees contacted included preop test personnel, operators, security force members and office personnel.

#### NRC Resident Inspector

- \*T. L. Heatherly, Resident Inspector

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on August 13, 1982, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspector's findings without significant comment.

### 3. Licensee Action on Previous Enforcement Matters

Not inspected.

### 4. Unresolved Items

Unresolved items were not identified during this inspection.

### 5. Independent Inspection Effort (92706)

The inspector toured portions of the Unit 1 reactor building, the auxiliary building, control room, fuel handling building, and the turbine building to



observe on-going activities and general housekeeping. The inspector observed the licensee's program for control over safety-related structures, systems and components which had been transferred from Construction to Nuclear Power. No violations or deviations were identified in the areas inspected.

#### 6. Preoperational Test Procedure Review (70303)- Unit 1

Preoperational test procedures were reviewed for conformance with Regulatory Guides 1.68 and 1.79, FSAR sections 5.5.7, 6.3, 8.3.2, 10.2, and FSAR Table 14.2-1. The inspector verified that management review and approval were indicated, test objectives were clearly stated and acceptance criteria specified. The following procedures were reviewed:

TVA-16A	Vital 125 Volt DC Power System
TVA-42	Turbine and Generator Control and Protection System
W-3.1A(1)	SIS - Integrated Flow Testing
W-3.1B	SIS - Accumulator and Related System Performance Test
W-3.1C	Centrifugal Charging Pump and Related Injection System Performance Test
W-4.1	Residual Heat Removal System

No violations or deviations were identified in the areas inspected.

#### 7. Licensee Identified Items

(Open) Item CDR 390/81-11 and 391/81-10. "Deficiencies in Pressure Testing, NCR WB-M-80-16" (10 CFR 50.55(e)). The final report was submitted on March 24, 1982. The report has been reviewed and determined to be acceptable. The inspector held discussions with responsible licensee representatives and reviewed supporting documentation to determine if the corrective actions identified in the report have been completed. Licensee representatives stated that the corrective actions for some of the systems identified in the report have not been completed. This matter remains open.

#### 8. Followup on Previously Identified Inspection Findings

- a. (Closed) Open Item 390/81-28-01 concerning the discrepancy of test personnel listing engineering change notices (ECN's) that affect the preop test while the test prerequisite requires listing those ECN's which do not affect the test. Licensee personnel have reviewed the test prerequisite concerning outstanding ECN's, and as a result of that review, the preop test supervisor issued a memorandum to test personnel describing changes to the test prerequisite. The changes include listing all outstanding or incomplete ECN's (rather than only listing those that do not affect the test) and modifying the wording of the prerequisite for better clarification. The memo also gives additional

instructions for handling ECN's which affect the preop test. The inspector reviewed test procedures and held discussions with test personnel to verify that the changes are being implemented. This item is closed.

- b. (Closed) Open Item 390/79-06-04 concerning information and commitments contained in TVA responses to FSAR questions not being incorporated into preop test instructions. This item was discussed in report 390/79-06 as an area of inspector concern. A similar item (390/81-31-03 and 391/81-28-03) was identified concerning the licensee's lack of review of FSAR amendments 42, 43, 44 and 45 to determine the impact on test program implementation and test descriptions. Since the latter item was identified, the licensee has initiated a review to ensure that FSAR commitments are incorporated into test instructions. Therefore, item 390/79-06-04 is closed, and the licensee's review of responses to FSAR questions for incorporation into preop test instructions will be reviewed during followup on item 390/81-31-03 and 391/81-28-03.
- c. (Open) Inspector Followup Item 390/79-29-02 concerning placing the battery chargers in service in preop test instruction TVA-16A without the use of any plant procedures, and discrepancies between battery loads specified in TVA-16A and those specified in FSAR tables 8.3-19, 8.3-20, 8.3-21, and 8.3-22. Licensee personnel stated that TVA-16A will be reviewed in order to identify and resolve any deficiencies and/or discrepancies in the test instruction. This item remains open pending completion of the review of TVA-16A and resolution of problems found.