



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

Report Nos. 50-390/80-18 and 50-391/80-11

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

Facility Name: Watts Bar Nuclear Plant

License Nos. CPPR-91 and CPPR-92

Inspector: *F. S. Cantrell*  
 M. Thomas

7/16/80  
 Date Signed

Approved by: *F. S. Cantrell*  
 F. S. Cantrell, Section Chief, RCES Branch

7/16/80  
 Date Signed

SUMMARY

Inspection on June 25-27, 1980

Areas Inspected

This routine unannounced inspection involved 23.5 inspector-hours onsite in the areas of construction activities, 10 CFR 50.55(e) items, handling and storage of safety-related piping, and QA audits.

Results

Of the four areas inspected, no items of noncompliance or deviation were identified.

## DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*J. E. Wilkins, Project Manager - WBNP
- \*J. E. Treadway, Construction Superintendent - WBNP
- \*S. Johnson, Assistant Construction Engineer - Mech. - WBNP
- \*L. C. Northard, Assistant Construction Engineer - QA - WBNP
- \*A. W. Rogers, QA Supervisor - WBNP
- \*R. L. Heatherly, Supervisor, Quality Control & Records Unit - WBNP
- \*S. R. Martin, Engineer, Hanger Engineering Unit - WBNP
- W. M. Copeland, Engineer, Mechanical Engineering Unit (MEU)
- J. D. Dawkins, Engineer, MEU - WBNP
- J. P. Ballard, Engineer, MEU - WBNP

#### NRC Resident Inspector

- \*J. A. McDonald, Senior Resident Inspector
- \*T. L. Heatherly, Resident Inspector

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on June 27, 1980 with those persons indicated in Paragraph 1 above. Inspector followup item 390/80-18-04 and 391/80-11-04 and field instructions involving safety-related activities (Paragraph 7) were discussed in detail.

### 3. Licensee Action on Previous Inspection Findings

Not inspected.

### 4. Unresolved Items

Unresolved items were not identified during this inspection.

### 5. Independent Inspection Effort (Units 1 and 2)

The inspector conducted a general walk through inspection of Units 1 and 2 reactor buildings and the auxiliary building. Areas inspected included construction activities and storage of safety-related piping. The inspector verified that these activities were being accomplished in accordance with approved instructions and procedures. Piping was stored on dunnage with ends caps to keep out debris. Other piping stored in areas where construction activities were being performed was adequately protected.

The following QA audit reports were reviewed:

WB-G-80-07, Inspection and Documentation Requirements for Spent Fuel Pit Cooling

WB-G-80-08, Test and Inspection of the Radiation Detection System

WB-G-80-09, Reporting of Nonconforming Conditions

WB-G-80-10, Handling Allegations and Stop Work Authority

WB-G-80-11, Fire Protection

No items of noncompliance or deviations were identified.

6. Licensee Identified Items (50.55(e))

The inspector reviewed the supporting documentation for the items listed below, and discussed each item with responsible licensee staff members during the inspection.

- a. (Closed) Item 390/79-23-04 and 391/79-19-04, ERCW Supply to Auxiliary Feedwater Pumps (MEB 79-19). In the final report dated June 20, 1979, the licensee states that the installed ERCW system supply valve operators would be replaced with faster acting ones. The contractor was on site on April 14-18, 1980 and May 13-15, 1980, to replace the valve operators. Each valve was tested in order to verify the required operating speed.
- b. (Open) Item 390/80-18-01 and 391/80-11-01, Chemical and Volume Control System Centrifugal Charging Pumps (WBN NEB 8008).

License reported that the pumps could fail on secondary side high energy line break co-incident with the failure of a pressurizer power operated relief valve. This item has been reported by Westinghouse per 10 CFR Part 21.

- c. (Open) Item 390/80-18-02 and 391/80-11-02, Insufficient Analysis of 3" Fire Protection Lines (WBN CEB 8005). Licensee reported that the fire protection layout drawing does not provide sufficient dimensions for analysis and construction. A line thought to be 2" in diameter was found to be 3", hence reanalysis in accordance with the design criteria is required.
- d. (Open) Item 390/80-18-03 and 391/80-11-3, Licensee Investigation and Findings Following Craft Allegations (NCR Nos. 2381R and 2382R).

As a result of an investigation into allegations made by an electrician, the licensee has identified several problems associated with safety-related cable and conduit. These include:

Removal of Class IE conduit without (W/O) proper documentation

Removal of conduit W/O approval

Removal of identification tags on conduit W/O approval.

While investigating an allegation concerning cable splicing, the licensee found no cases of splicing W/O approval or unauthorized locations, but a damaged cable was found which someone had attempted to conceal.

7. Inspector Followup Item

The inspector reviewed the file of Watts Bar Field Instructions (WBFI). WBFI's are detailed instructions which supplement higher tier documents (QCP's Construction Specs, etc.) and are written to accomplish a specific activity. While reviewing WBFI's, the inspector found that field instructions are not covered by the QA program, even though several of the field instructions involve safety-related activities. After further review the inspector found that field instructions were not being reviewed and the activities which they covered were not being audited by QA. In order to verify the adequacy and accuracy with higher tier documents and to ensure all requirements of the QA program are being met, more emphasis needs to be placed on WBFI's involving safety-related activities. Following discussions with site personnel the inspector learned that a program has been initiated to review all quality control procedures and instructions. WBFI's will also be included in the review. Pending review of WBFI's by the licensee, this will be identified as inspector followup item 390/80-18-04 and 391/80-11-04, Field Instruction Involving Safety-Related Activities.

No items of noncompliance or deviations were identified.