



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

Report No. 50-390/79-28 and 50-391/79-24

Licensee: Tennessee Valley Authority  
500A Chestnut Street Tower II  
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

Inspection at Watts Bar site near Spring City, Tennessee

Inspector: <u><i>E. J. Vallish</i></u>	<u>8-6-79</u>
E. J. Vallish	Date Signed
Approved by: <u><i>A. R. Herdt</i></u>	<u>8-6-79</u>
A. R. Herdt, Section Chief, RCEB	Date Signed

SUMMARY

Inspection on July 17-20, 1979

Areas Inspected

This routine, unannounced inspection involved 24 inspector-hours onsite in the areas of concrete anchor expansion bolts, safety-related pipe support and restraint systems and unresolved items.

Results

No items of noncompliance or deviations were identified.

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## DETAILS

### 1. Persons Contacted

#### Licensee Employees

T. B. Northern, Project Manager  
\*H. C. Richardson, Construction Engineer  
\*J. A. Morgan, Assistant Mechanical Engineering Unit (MEU) Supervisor  
L. D. Blansit, QC Engineer  
\*R. L. Heatherly, Supervisor QC & Records Unit  
A. W. Rogers, Site QA Supervisor  
L. J. Johnson, MEU Group Leader  
G. Day, EN-DES Knoxville  
K. Warren, MEU Engineer  
L. A. Harris, MEU Engineer - CVCS

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on July 20, 1979, with those persons indicated in Paragraph 1 above.

### 3. Licensee Action on Previous Inspection Findings

(Closed) Infraction, 390/78-32-02, Verification of Bolting Material.

TVA letter of response dated February 1, 1979 has been reviewed and determined to be acceptable by Region II. The inspector held discussions with the MEU engineers and examined the corrective actions as stated in the letter of response. The inspector concluded that TVA had determined the full extent of the subject noncompliance, performed the necessary survey and follow-up actions to correct the present conditions and developed the necessary corrective actions to preclude recurrence of similar circumstances. The corrective actions identified in the letter of response have been implemented.

(Closed) Infraction, 391/79-04-01, Failure to Use Load Cell.

TVA letter of response dated April 2, 1979, has been reviewed and determined to be acceptable by Region II. The inspector held discussions with the MEU engineers and examined the corrective actions as stated in the letter of response. The inspector concluded that TVA had determined the full extent of the subject noncompliance, performed the necessary survey and follow-up actions to correct the present conditions and developed the necessary corrective actions to preclude recurrence of similar circumstances. The corrective actions identified in the letter of response have been implemented.

(Closed) Infraction, 390/78-23-01, Reactor Vessel Cover Left Open and Deficiency, 391/78-23-02, Noncertified Auditors.

TVA letter of response dated December 7, 1978, has been reviewed and determined to be acceptable by Region II. The inspector held discussions with the Mechanical Engineering Unit engineers and examined the corrective actions as stated in the letter of response. The inspector concluded that TVA had determined the full extent of the subject noncompliances, performed the necessary surveys and follow-up actions to correct the present conditions and developed the necessary corrective actions to preclude recurrence of similar circumstances. The corrective actions identified in the letter of response have been implemented.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Licensee Identified Items

(Open) Item 390/79-22-01 and 391/79-18-01, "Defective Phillips Self-Drill Concrete Anchors - NCR 1433R" (10 CFR 50.55 (e)).

On March 19, 1979, TVA notified IE:II of a possible 10 CFR 50.55(e) item concerning deficient 1/2 inch self drill concrete anchor bolts. The final Construction Deficiency Report was submitted on June 20, 1979. The report has been reviewed and determined not to be acceptable by IE:II. The inspector held discussions with responsible licensee representatives, reviewed supporting documentation and observed representative samples of work to verify that the corrective actions have not been completed. This matter remains open pending the examination of evidence that will insure that the field inspection and testing activities will meet the requirements of IE Bulletin (IEB) 79-02 as well as a supplemental response to the final report to assure meeting of IEB 79-02 requirements.

6. Independent Inspection Effort - Units 1 and 2

This effort inspected the progress of installation of the major safety related mechanical components including the hydrogen recombiners, control rod drive mechanisms, ice condensers, steam generator upper lateral supports, pressurizer upper supports, reactor coolant pumps, reactor vessel internals and the conditions of mechanical items in storage outside the entrance to the Unit 2 containment building.

No items of noncompliance or deviations were identified.

7. Concrete Expansion Anchor Bolts - Units 1 and 2

The licensee's field activities required by IEB 79-02 were examined. Two related efforts are underway. One concerns the 10 CFR 50.55(e) item concerning defective cones supplied with 1/2 inch Phillips self drilling anchor bolts (paragraph 5 above), and the other concerns all other anchor

bolts with regard to IEB 79-02. Procedures governing these efforts are TVA Specification G-32 and WBNP QCP 1.14 R6. Neither of these procedures address the IEB 79-02 requirement equivalent to the 95% confidence level that less than 5% defective anchors will be installed in any single safety related system.