



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

Report Nos. 50-390/81-22 and 50-391/81-21

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

Facility Name: Watts Bar

Docket Nos. 50-390 and 50-391

License Nos. CPPR-91 and CPPR-92

Inspection at Watts Bar site near Spring City, Tennessee

Inspector:

E. H. Girard
E. H. Girard

11/4/81

Date Signed

Approved by:

A. R. Herdt
A. R. Herdt, Section Chief
Engineering Inspection Branch
Engineering and Technical Inspection Division

11/4/81

Date Signed

SUMMARY

Inspection on October 20-23, 1981

Areas Inspected

This routine, unannounced inspection involved 27 inspector-hours on site in the areas of IEB 80-21, Reactor Coolant Pressure Boundary Piping (Welding), Review of Quality Records (Unit 1), Safety Related Structures Welding, Review of Quality Records (Unit 1).

Results

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

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *J. E. Wilkins, Project Manager
- *T. R. Brown, Supervisor, Hanger Engineering Unit
- *S. J. Boney, Supervisor, Welding Engineering Unit
- *T. R. Trail, NRC Response Coordinator
 - L. J. Johnson, Mechanical Engineering Unit (MEU) Supervisor
 - T. Hudson, Engineer, MEU
 - S. Thomas, Engineer, MEU
 - E. White, QA Auditor

Other Organizations

A. Hogarth, Westinghouse Site Project Manager

NRC Resident Inspector

J. A. McDonald
T. Heatherly

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on October 23, 1981 with those persons indicated in paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Status of IE Bulletins (IEBs) (Units 1 and 2)

(Closed) IEB 390, 391/80-BU-21: Valve Yokes supplied by Malcolm Foundry Company, Inc. The licensee's response letter for this bulletin, dated May 6, 1981, has been received and reviewed by NRC Region II. The letter response indicates that the licensee has determined that they do not have any valve parts cast by Malcolm Foundry in any safety-related valves they plan to use. The bulletin is considered closed based on this response.

6. Reactor Coolant Pressure Boundary Piping (Welding) - Review of Quality Records (Unit 1)

The inspector reviewed the quality records described below relative to reactor coolant pressure boundary pipe welding to determine whether these records reflected work accomplishment consistent with NRC requirements and SAR commitments. The applicable code for this welding is the ASME Boiler and Pressure Vessel Code, Section III, Subsection NB, 1971 Edition with Addenda through summer of 1973 as implemented by TVA Specification G29M and the Watts Bar Nuclear Plant Quality Control Procedures and Quality Control Instructions.

- a. The following completed weld records were reviewed in the areas of: visual and dimensional inspections, weld history, preheat and interpass temperature, NDE, weld repair, welder qualification, and inspector qualification, as applicable to each weld:

<u>Weld Number</u>	<u>Pipe Size, Inches</u>
1-068F-W003-01	31 x 1.6
1-068D-W004-01	29 x 2.45
1-068D-W001-01	29 x 2.45
1-068A-D233-04	4 x .531
1-068A-D233-05	4 x .531
1-068A-D232-1A	6 x .719
1-068A-D232-1D	6 x .719

- b. The inspector reviewed the following nonconformance report (NCR) relative to reactor coolant pressure boundary pipe welding to determine whether records were complete, legible, retrievable and (if applicable) properly closed out:

NRC Number

1757R
1350R
3117R
2993R
2437R
3182R
3154R
3009R
3613R
3597R
3599R
3286R
3641R
3373R

Within the areas examined, there were no violations or deviations identified.

7. Safety-Related Structures (Welding) - Review of Quality Records (Unit 1)

The inspector reviewed the quality records described below relative to welding at safety-related structures/supports outside the containment to determine whether these records reflected work accomplishment consistent with NRC requirements and SAR commitments. The applicable code for this welding is AWS D1.1 as implemented by TVA Specification G29C and the Watts Bar Nuclear Plant Quality Control Procedures and Quality Control Instructions.

- a. The following completed records for the following supports were reviewed in the areas of: visual dimensional inspections, weld history, and inspector qualification, as applicable to each weld:

Support Number

67-1ERCW-R49
67-1ERCW-R55
67-1ERCW-R56
67-1ERCW-R57

- b. The inspector reviewed records of the following QA audits relative to welding of safety-related supports:

Audit Number

Subject

WB-M-81-07	Inspection and Documentation Requirements for Mechanical Supports
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WB-M-81-03	Welding Inspection and Documentation of Seismic Supports
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Deficiency number 3 of audit number WB-M-81-03 was chosen for further investigation to determine whether proper, timely and adequate corrective action was taken.

Within the areas examined, there were no violations or deviations identified.