



Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381-2000

MAY 02 2002

10 CFR 50.55a

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555

Gentlemen:

In the Matter of) Docket No.50-390
Tennessee Valley Authority)

**WATTS BAR NUCLEAR PLANT (WBN) UNIT 1 - AMERICAN SOCIETY OF
MECHANICAL ENGINEERS (ASME) SECTION XI INSERVICE INSPECTION
(ISI) SUMMARY REPORT FOR THE FOURTH REFUELING CYCLE**

The purpose of this letter is to provide the subject summary report to NRC within 90 days of completion of the ISI as required by ASME Section XI, IWA-6230 of the 1989 Edition of the ASME Section XI Code. These inspections ended March 21, 2002 with generator synchronization to the grid. The Cycle 4 refueling outage is the second of three outages in the Second Period of the First ISI Interval.

This summary report documents the results of the ASME Section XI examinations, tests, repairs and replacements performed during the fourth cycle of operation. Included in this Report is the summary of ISI examinations and results; the summary of pressure tests and results; and, the summary of repairs and replacements as documented on ASME Forms NIS-2.

One relief request is required for an ISI component examined during this inspection. The relief request is summarized in the enclosure and is scheduled to be submitted under a separate letter.

A047

U.S. Nuclear Regulatory Commission
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MAY 02 2002

If you have any questions concerning the Cycle 4 Summary Report, please contact me at (423) 365-1824.

Sincerely,



P. L. Pace
Manager, Site Licensing
and Industry Affairs

Enclosure

cc (Enclosure):

NRC Resident Inspector
Watts Bar Nuclear Plant
1260 Nuclear Plant Road
Spring City, Tennessee 37381

Mr. L. Mark Padovan, Senior Project Manager
U.S. Nuclear Regulatory Commission
MS 08G9
One White Flint North
11555 Rockville Pike
Rockville, Maryland 20852-2738

U.S. Nuclear Regulatory Commission
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, Georgia 30303

ENCLOSURE

WATTS BAR NUCLEAR PLANT UNIT 1
ASME SECTION XI INSERVICE INSPECTION SUMMARY REPORT
FOURTH REFUELING CYCLE

**TENNESSEE VALLEY AUTHORITY'S
WATTS BAR NUCLEAR PLANT
UNIT 1**

ASME SECTION XI

INSERVICE INSPECTION

SUMMARY REPORT

FOURTH REFUELING CYCLE

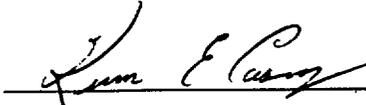
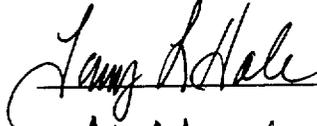
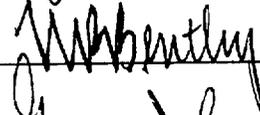
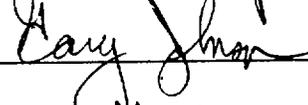
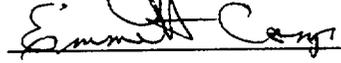
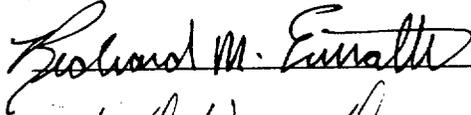
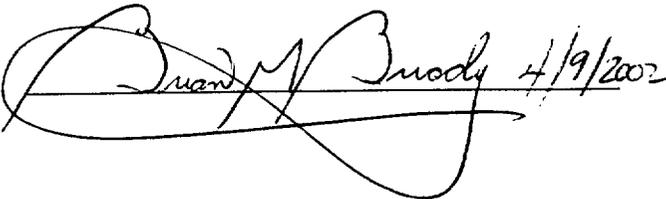
Owner: TENNESSEE VALLEY AUTHORITY
Chattanooga Office Complex
1101 Market Street
Chattanooga, TN 37402

Plant: WATTS BAR NUCLEAR PLANT
P.O. Box 2000
Spring City, TN 37381-2000

Unit: 1
Commercial Service Date: May 27, 1996

Certificate of Authorization: N/A
National Board Number for Unit: N/A

CONCURRENCE AND APPROVAL SHEET

Name	Title	Signature	Date
Prepared by:			
K. E. Casey	ISI Program Engineer		07/28/02
Concurred by:			
T. L. Hale	ISO ISI/NDE Coordinator		4/8/02
N. R. Bentley	ISO NDE Level III		4-7-02
G. L. Johnson	System Pressure Test Engineer		3/28/02
E. D. Camp	Steam Generator Specialist		2 Apr 02
^{for} J. K. McClanahan	Corporate ISI Specialist		04/05/02
M. D. Davis	Component Engineering Manager		4/8/02
Approved by:			
B. G. Briody	System Engineering Manager		4/9/2002

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Owner: TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402	Plant: WATTS BAR NUCLEAR PLANT P.O. Box 2000 Spring City, TN 37381-2000
Unit: 1 Commercial Service Date: May 27, 1996	Certificate of Authorization: N/A National Board Number for Unit: N/A

Cover Sheet

Owner: Tennessee Valley Authority

Address of Corporate Office: Chattanooga Office Complex
1101 Market Street
Chattanooga, Tennessee 37402-2801

Name and Address of Nuclear Power Plant: Watts Bar Nuclear Plant
P.O. Box 2000
Spring City, Tennessee 37381-2000

Applicable Nuclear Power Units: Watts Bar Nuclear Plant, Unit 1

Commercial Operation Date: May 27, 1996

Document Completion Date: March 28, 2002

Owner: TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402	Plant: WATTS BAR NUCLEAR PLANT P.O. Box 2000 Spring City, TN 37381-2000
Unit: 1 Commercial Service Date: May 27, 1996	Certificate of Authorization: N/A National Board Number for Unit: N/A

FORM NIS-1 (Back)

- 8. Examination Dates: October 8, 2000 to March 21, 2002
- 9. Inspection Period Identification: Second
- 10. Inspection Interval Identification: First
- 11. Applicable Edition of Section XI: 1989 Addenda N/A
- 12. Date/Revision of Inspection Plan: December 10, 2001/1-TRI-0-10, Revision 8
- 13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Appendix I
- 14. Abstract of Results of Examinations and Tests. See Appendix I
- 15. Abstract of Corrective Measures. No corrective measures required this inspection.

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A
 Date MARCH 28 20 02 Signed Tennessee Valley Authority By [Signature]
 Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB I & I Co. of CT of Hartford CT have inspected the components described in this Owners' Data Report during the period 10/27/00 to 4/8/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, and tests, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions TN 2534
 Inspector's Signature National Board, State, Province and Endorsements

Date 4/8 20 02

Owner: TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402	Plant: WATTS BAR NUCLEAR PLANT P.O. Box 2000 Spring City, TN 37381-2000
Unit: 1 Commercial Service Date: May 27, 1996	Certificate of Authorization: N/A National Board Number for Unit: N/A

FORM NIS-1 (Back)

- 8. Examination Dates: March 4, 2002 to March 12, 2002
- 9. Inspection Period Identification: Second
- 10. Inspection Interval Identification: First
- 11. Applicable Edition of Section XI: 1989 Addenda N/A
- 12. Date/Revision of Inspection Plan: March 1, 2002/1-SI-68-907, Revision 8
- 13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Appendix II
- 14. Abstract of Results of Examinations and Tests. See Appendix II
- 15. Abstract of Corrective Measures. See Appendix II

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A
 Date 3 Apr 2002 Signed Tennessee Valley Authority By Ernest D. Camp
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by H&B I & I Co. of CT of Hartford CT. have inspected the components described in this Owners' Data Report during the period 12/27/00 to 4/8/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, and tests, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M. Earnigh Commissions TN 2534
Inspector's Signature National Board, State, Province and Endorsements

Date 4/8 2002

Owner: TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402	Plant: WATTS BAR NUCLEAR PLANT P.O. Box 2000 Spring City, TN 37381-2000
Unit: 1 Commercial Service Date: May 27, 1996	Certificate of Authorization: N/A National Board Number for Unit: N/A

FORM NIS-1 (Back)

8. Examination Dates: October 8, 2000 to March 21, 2002
9. Inspection Period Identification: Second
10. Inspection Interval Identification: First
11. Applicable Edition of Section XI: 1989 Addenda N/A
12. Date/Revision of Inspection Plan: March 8, 2002/TI-100.009, Revision 3
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Appendix III
14. Abstract of Results of Examinations and Tests. See Appendix III
15. Abstract of Corrective Measures. See Appendix III

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A
 Date March 28 20 02 Signed Tennessee Valley Authority By [Signature]
 Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB III Co. of CT. of Hartford CT. have inspected the components described in this Owners' Data Report during the period 10/27/00 to 4/8/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, and tests, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M. Earnigh Commissions TN 2534
 Inspector's Signature National Board, State, Province and Endorsements

Date 4/8 2002

Owner: TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402	Plant: WATTS BAR NUCLEAR PLANT P.O. Box 2000 Spring City, TN 37381-2000
Unit: 1 Commercial Service Date: May 27, 1996	Certificate of Authorization: N/A National Board Number for Unit: N/A

INTRODUCTION AND SUMMARY

Introduction

As required by ASME Section XI, IWA-6200, this summary report documents the results of the ASME Section XI examinations, tests, repairs and replacements performed during the fourth cycle of operation of TVA's Watts Bar Nuclear Plant's Unit 1. The cycle 4 refueling outage is the second of three outages in the Second Period of the First Inservice Inspection Interval. To coincide with the cycle 7 refueling outage, the first interval has been extended in accordance with IWA-2430(d) to end on December 31, 2006.

Included in this cycle 4 Summary Report is: the summary of ISI examinations and results; summary of steam generator tube eddy current examinations and results; summary of pressure tests and results; and, summary of repairs and replacements as documented on ASME Form NIS-2s.

Summary

ISI examinations were performed in accordance with Technical Requirement Instruction 1-TRI-0-10, "ASME Section XI ISI/NDE Program." Table 1 provides an overview of the ISI examinations that were performed during cycle 4. The results of all the examinations met the applicable acceptance standards. Examination of the reactor vessel head-to-flange weld requires a request for relief be prepared as the required code coverage could not be obtained. The examination results for the ISI components are summarized in Appendix I.

Eddy current testing of the steam generator tubes was performed in accordance with Surveillance Instruction 1-SI-68-907, "Steam Generator Tubing Inservice Inspection and Augmented Inspection." One hundred eighty-six tubes were plugged as a result of this inspection. The results are summarized in Appendix II.

Appendix III provides a summary of the system pressure tests performed for code credit during cycle 3. System pressure tests are implemented as defined in Technical Instruction 100.009, "ASME Section XI System Pressure Testing Program Basis Document." Individual system pressure test procedures are listed in the summary.

Appendix IV provides a summary of the repairs and replacements performed during the fourth cycle. Included are the ASME Form NIS-2s, "Owners Report for Repair and Replacements." Repairs and Replacements are documented in accordance with Standard Programs and Processes (SPP) 9.1, Part D, "Repair/Replacement of ASME Section XI Components."

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Unit: 1 Commercial Service Date: May 27, 1996	Certificate of Authorization: N/A National Board Number for Unit: N/A

TABLE 1
SUMMARY OF CYCLE 4 ISI EXAMINATIONS

Examination Category	Item Number	Component Description	Number Examined
<u>Code Class 1 Components</u>			
B-A	B1.40	RV Head-to-Flange Weld (1/2 of weld)	1
B-G-1	B6.10	RV Closure Head Nuts	18
	B6.30	RV Closure Studs	18
	B6.40	RV Threads in Flange	18
	B6.50	RV Closure Washers	18
B-G-2	B7.70	Valve Pressure Retaining Bolting	1
<u>Code Class 3 Components</u>			
D-A	D1.10	Equipment Integrally Welded Attachments	3
	D1.20	Piping Integrally Welded Attachments	10
F-A of Code Case N-491		Component Supports	
	F1.30	Piping Supports	72
	F1.40	Equipment Supports	8

Owner: TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402	Plant: WATTS BAR NUCLEAR PLANT P.O. Box 2000 Spring City, TN 37381-2000
Unit: 1 Commercial Service Date: May 27, 1996	Certificate of Authorization: N/A National Board Number for Unit: N/A

**SUMMARY OF
REQUESTS FOR RELIEF (RFRs)**

One RFR is required to be written for the reactor vessel head-to-flange weld examined during this inspection. The RFR summarized below is required as the result of not obtaining required code coverage due to limitations. The RFR will be submitted under separate letter to the NRC.

Proposed RFR 1-ISI-13

ISI Component Number(s): W08-09-B

Component Description: Reactor Vessel Head-to-Flange Weld

Examination Category/Item No.: B-A/B1.40

Report Numbers: R0823

Summary: Due to geometric configuration of the reactor vessel head, volumetric examination of the head-to-flange weld during the Unit 1 Cycle 4 refueling outage resulted in less than 100% of ASME code coverage being achieved. The geometric configuration at the taper of the flange-to-head weld prevents the performance of an ultrasonic scan from the flange side of the weld, thus preventing 100% examination of the required full volume. The required surface examination was performed and was found acceptable. Volumetric examination of this component is required in accordance with Table IWB-2500-1, Examination Category B-A, Item Number B1.40. The full examination volume requirement is defined by Figure IWB-2500-5.

The complete reactor vessel head-to-flange weld is identified by two weld identifiers, W08-09-A and W09-09-B. Weld W08-09-A was examined during the cycle 2 refueling outage and also resulted in less than 100% of ASME code coverage being achieved. Request for Relief 1-ISI-06 was submitted and granted by the NRC.

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Chattanooga Office Complex
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P.O. Box 2000
Spring City, TN 37381-2000

Unit: 1
Commercial Service Date: May 27, 1996

Certificate of Authorization: N/A
National Board Number for Unit: N/A

APPENDIX I CYCLE 4 ISI EXAMINATION PLAN

The following examination plan provides the list and results of examinations performed during the fourth cycle. This plan is sorted by examination category and item number and system. The headings are defined below:

System	System Title Abbreviation
	CVCS Chemical and Volume Control System
	FWS Feedwater System
	RCP Reactor Coolant Pump
	RCS Reactor Coolant System
	RHRS Residual Heat Removal System
	RV Reactor Vessel
Component Number	ISI Component Identifier
ISO Drawing	ISI Drawing Number
Category	Code Examination Category
Item Number	Code Item Number
Exam Requirement	Examination Requirement
	89E-01 Code Class 1, 2 or 3 Item examined per the requirements of the 1989 Edition of ASME Section XI for first interval code credit
	P89001 Item examined per the requirements of the 1989 Edition of ASME Section XI for preservice credit (i.e. repaired/replaced item)
Exam Scheduled	Required Examination Method
NDE Procedure	TVA NDE Procedure Number
Calibration Standard	Calibration Standard Identifier
Exam Date	Date Examination Performed
Exam Report	Examination Report Number
Exam Results	Results of the Examination
	P = PASS, examination met the applicable acceptance standards
	F = FAIL, examination did not meet the applicable acceptance standards and was repaired or replaced
	E = EVALUATION, examination did not meet the applicable acceptance standards but was accepted by evaluation
Comments	Applicable Comments

Owner: TENNESSEE VALLEY AUTHORITY
 Chattanooga Office Complex
 1101 Market Street
 Chattanooga, TN 37402

Unit: 1
 Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR PLANT
 P.O. Box 2000
 Spring City, TN 37381-2000

Certificate of Authorization: N/A
 National Board Number for Unit: N/A

System	Component Component Number	ISO Drawing	Category	Item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration	Exam Date	Exam Report	Exam Results	Comments
RV	W08-09-B	CHM-2549-C-01	B-A	B1.40	89E-01	MT	N-MT-6		20020301	R0822	P	
RV	W08-09-B	CHM-2549-C-01	B-A	B1.40	89E-01	UT	N-UT-9	WB-51	20020302	R0823	P	
RV	RVNUT-19	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-20	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-21	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-22	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-23	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-24	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-25	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-26	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-27	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-28	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-29	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-30	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-31	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-32	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-33	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-34	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-35	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVNUT-36	ISI-0427-C-03	B-G-1	B6.10	89E-01	MT	N-MT-6		20020307	R0828	P	
RV	RVSTUD-19	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-19	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020308	R0826	P	
RV	RVSTUD-20	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-20	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020308	R0826	P	
KV	RVSTUD-21	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-21	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020308	R0826	P	
RV	RVSTUD-22	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-22	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020308	R0826	P	
RV	RVSTUD-23	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-23	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020308	R0826	P	
RV	RVSTUD-24	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-24	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020308	R0826	P	
RV	RVSTUD-25	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-25	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020308	R0826	P	
RV	RVSTUD-26	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-26	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020308	R0826	P	
RV	RVSTUD-27	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-27	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020308	R0826	P	
RV	RVSTUD-28	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-28	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020308	R0826	P	
RV	RVSTUD-29	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-29	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020308	R0826	P	

Owner: TENNESSEE VALLEY AUTHORITY
 Chattanooga Office Complex
 1101 Market Street
 Chattanooga, TN 37402

Plant: WATTS BAR NUCLEAR PLANT
 P.O. Box 2000
 Spring City, TN 37381-2000

Unit: 1
 Commercial Service Date: May 27, 1996

Certificate of Authorization: N/A
 National Board Number for Unit: N/A

System	Component Number	ISO Drawing	Category	Item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration	Exam Date	Exam Report	Exam Results	Comments
RV	RVSTUD-30	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-30	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020306	R0826	P	
RV	RVSTUD-31	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-31	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020306	R0826	P	
RV	RVSTUD-32	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-32	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020306	R0826	P	
RV	RVSTUD-33	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-33	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020306	R0826	P	
KV	RVSTUD-34	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-34	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020306	R0826	P	
RV	RVSTUD-35	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-35	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020306	R0826	P	
RV	RVSTUD-36	ISI-0427-C-03	B-G-1	B6.30	89E-01	MT	N-MT-6		20020306	R0827	P	
RV	RVSTUD-36	ISI-0427-C-03	B-G-1	B6.30	89E-01	UT	N-UT-67	WB-76	20020306	R0826	P	
RV	RVLIG-19	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-20	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-21	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-22	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-23	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-24	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-25	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-26	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-27	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-28	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-29	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-30	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-31	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-32	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-33	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-34	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-35	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVLIG-36	ISI-0427-C-03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	20020310	R0840	P	
RV	RVWASHER-19	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-20	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
KV	RVWASHER-21	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-22	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
KV	RVWASHER-23	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-24	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-25	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-26	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-27	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-28	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-29	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-30	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-31	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	

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Unit: 1
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Plant: WATTS BAR NUCLEAR PLANT
 P.O. Box 2000
 Spring City, TN 37381-2000

Certificate of Authorization: N/A
 National Board Number for Unit: N/A

System	Component Number	ISO Drawing	Category	Item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration	Exam Date	Exam Report	Exam Results	Comments
RV	RVWASHER-32	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-33	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-34	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-35	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RV	RVWASHER-36	ISI-0427-C-03	B-G-1	B6.50	89E-01	VT-1	N-VT-1		20020307	R0829	P	
RCS	RC-02-BC	ISI-0365-C-01	B-G-2	B7.50	89E-01	VT-1	N-VT-1		20020309	R0839	P	
RCS	RC-03-BC	ISI-0365-C-01	B-G-2	B7.50	P89000	VT-1	N-VT-1		20020309	R0831	P	Valve replaced on WO 01-003958-000. Valve S/N N56964-00-0097
KCS	RC-04-BC	ISI-0365-C-01	B-G-2	B7.50	P89000	VT-1	N-VT-1		20020309	R0836	P	Valve replaced on WO 01-003958-000. Valve S/N N56964-10-0033
KCS	RC-05-BC	ISI-0365-C-01	B-G-2	B7.50	P89000	VT-1	N-VT-1		20020306	R0830	P	Valve replaced on WO 01-003958-000. Valve S/N N56964-10-0096
RCP	RCP2CSABLT-01	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20020302	R0821	P	
RCP	RCP2CSABLT-02	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20020302	R0821	P	
RCP	RCP2CSABLT-03	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20020302	R0821	P	
RCP	RCP2CSABLT-04	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20020302	R0821	P	
RCP	RCP2CSABLT-05	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20020302	R0821	P	
RCP	RCP2CSABLT-06	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20020302	R0821	P	
RCP	RCP2CSABLT-07	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20020302	R0821	P	
RCP	RCP2CSABLT-08	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20020302	R0821	P	
RCS	68-563-BC	ISI-0365-C-01	B-G-2	B7.70	P89000	VT-1	N-VT-1		20020311	R0834	P	Valve replaced on WO 01-003958-000. Valve S/N N56964-10-0096
RCS	68-564-BC	ISI-0365-C-01	B-G-2	B7.70	P89000	VT-1	N-VT-1		20020311	R0838	P	Valve replaced on WO 01-003958-000. Valve S/N N56964-10-0033
RCS	68-565-BC	ISI-0365-C-01	B-G-2	B7.70	P89000	VT-1	N-VT-1		20020311	R0833	P	Valve replaced on WO 01-003958-000. Exam performed at WYLE Labs Valve S/N N56964-10-0097
RHR:	FCV-74-001-BC	CHM-2636-C-01	B-G-2	B7.70	89E-01	VT-1	N-VT-1		20020225	R0814	P	Exam valve bolting in place, no valves in group being disassembled this RFO
RCS	68-563	ISI-0365-C-01	B-M-2	B12.50	P89000	VT-3	N-VT-1		20020312	R0835	P	Valve replaced on WO 01-003958-000. Exam performed at WYLE Labs Valve S/N N56964-10-0096
RCS	68-564	ISI-0365-C-01	B-M-2	B12.50	P89000	VT-3	N-VT-1		20010214	R0837	P	Valve replaced on WO 01-003958-000. Valve S/N N56964-10-0033
RCS	68-565	ISI-0365-C-01	B-M-2	B12.50	P89000	VT-3	N-VT-1		20020312	R0832	P	Valve replaced on WO 01-003958-000. Exam performed at WYLE Labs Valve S/N N56964-10-0097
CVCS	1-62A-304	ISI-0026-C-01	F-A	F1.10A	P89000	VT-3	N-VT-1		20020308	R0825	P	WO 01-011959-002, Extent of exam - clamp pin only
CVCS	1-62A-304	ISI-0026-C-01	F-A	F1.10A	P89000	VT-3	N-VT-1		20010709	R0727	P	
RCS	1-68-364	ISI-0364-C-03	F-A	F1.10C	P89000	VT-3	N-VT-1		20020317	R0843	P	Examined item #10, WO 02-003864-000
FWS	1-03A-480	ISI-0062-C-08	F-A	F1.20D	P89000	VT-3	N-VT-1		20020306	R0824	P	Examined replacement load pin, WO 01-006084-000

Owner: TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402	Plant: WATTS BAR NUCLEAR PLANT P.O. Box 2000 Spring City, TN 37381-2000
Unit: 1 Commercial Service Date: May 27, 1996	Certificate of Authorization: N/A National Board Number for Unit: N/A

APPENDIX II

SUMMARY OF WATTS BAR UNIT 1 CYCLE 4
SG EDDY CURRENT INSPECTION/TUBE PLUGGING RESULTS

EDDY CURRENT EXAM TYPE	S/G 1	S/G 2	S/G 3	S/G 4	Totals
Full-Length Bobbin Coil	4516	4517	4523	4526	18082
Partial Bobbin Exam	136	137	137	137	547
CTE+2" - HTE Bobbin Coil	1	0	0	0	1
U-Bend Plus Point	137	137	137	137	548
HL Top of Tubesheet Plus Point	4653	4654	4660	4663	18630
CL Top of Tubesheet Plus Point	0	0	0	937	937
Dented TSP Plus Point	25	65	37	83	210
Freespan Ding Plus Point	19	11	27	42	99
Diagnostic Plus Point	28	27	18	16	89
Total Exams Completed	9515	9548	9539	10541	39143
INDICATIONS (Tubes)	S/G 1	S/G 2	S/G 3	S/G 4	Totals
AVB Wear	4	8	3	15	30
ODSCC HTS Circ	15	25	16	82	138
ODSCC HTS Axial	0	1	0	1	2
ODSCC TSP Axial	56	32	36	38	162
PWSCC HTS Circ	1	0	0	0	1
PWSCC HTS Axial	3	6	17	1	27
Volumetric Indication	0	1	1	0	2
PLUGGING STATUS	S/G 1	S/G 2	S/G 3	S/G 4	Totals
Previously Plugged Tubes	21	20	14	11	66
Plugged Cycle 4					
Damage Mechanism					
PWSCC HTS Axial	3	6	17	1	27
PWSCC HTS Circ	1	0	0	0	1
ODSCC HTS Axial	0	1	0	1	2
ODSCC HTS Circ	15	25	16	82	138
ODSCC TSP Axial	7	1	1	0	9
Preventive	0	1	0	2	3
Volumetric Indication	0	1	0	0	1
Obstructed Tube	0	2	0	0	2
Noisy Data	2	0	0	1	3
TOTAL TUBES PLUGGED	49	57	48	98	252

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Classification of Inspection Results	SG1	SG2	SG3	SG4
Full-Length Bobbin Coil	C-2	C-2	C-2	C-2
U-Bend Plus Point	C-1	C-1	C-1	C-1
Top of Tubesheet Plus Point	C-2	C-2	C-2	C-3
Dented TSP Plus Point	C-1	C-1	C-1	C-1
Freespan Ding Plus Point	C-1	C-1	C-1	C-1

Inspection Classification Category	Inspection Results
C-1	Less than 5% of the total tubes inspected are degraded tubes and none of the inspected tubes are defective
C-2	One or more tubes, but not more than 1% of the total tubes inspected are defective, or between 5 and 10% of the total tubes inspected are degraded tubes
C-3	More than 10% of the total tubes inspected are degraded tubes or more than 1% of the inspected tubes are defective

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Unit: 1 Commercial Service Date: May 27, 1996	Certificate of Authorization: N/A National Board Number for Unit: N/A

**APPENDIX III
PRESSURE TEST SUMMARY**

The following table summarizes the tests and results of the system pressure tests performed during the fourth cycle.

Owner: TENNESSEE VALLEY AUTHORITY
Chattanooga Office Complex
1101 Market Street
Chattanooga, TN 37402

Plant: WATTS BAR NUCLEAR PLANT
P.O. Box 2000
Spring City, TN 37381-2000

Unit: 1
Commercial Service Date: May 27, 1996

Certificate of Authorization: N/A
National Board Number for Unit: N/A

WBN Unit 1 Cycle 4 RFO Pressure Test Report
[First Inspection Interval, second period]

System	Procedure No.	Test Type	Exam	Performance Date	Test Results
Steam generator blowdown piping and components from each steam generator through the outboard containment isolation valves. Note that this test was performed as a post modification test for a modification to the blowdown piping.	1-TRI-1-902	System Inservice	VT-2	03/18/2002	Satisfactory
Auxiliary Feedwater System - Train A Auxiliary Feedwater System Code Class 3 piping and components associated with the 1A-A Auxiliary Feedwater Pump up to the steam generator level control valves.	1-TRI-3-901-A [Note 2]	System Functional	VT-2	01/22/2002	Satisfactory
Main Feedwater System - Main feedwater system Code Class 2 piping and components located inside the reactor building, including the secondary side of the steam generators.	1-TRI-3-903 [Note 1]	System Inservice	VT-2	03/18/2002	Satisfactory
Auxiliary Feedwater System - Essential Raw Cooling Water System supply to the 1A-A and 1A-S Auxiliary Feedwater Pumps Code Class 3 piping and components	1-TRI-3-904-A [Note 2]	System Functional	VT-2	01/24/2002	Satisfactory
Auxiliary Feedwater System - Essential Raw Cooling Water System supply to the 1B-B and 1A-S Auxiliary Feedwater Pumps Code Class 3 piping and components	1-TRI-3-904-B [Note 2]	System Functional	VT-2	02/14/2002	Satisfactory
Main Feedwater System - Main feedwater system Code Class 2 piping and components located outside the reactor building.	1-TRI-3-905 [Note 1]	System Inservice	VT-2	12/14/2001	Satisfactory
Auxiliary Feedwater System - Train A Auxiliary Feedwater System Code Class 2 and 3 piping and components associated with the 1A-A Auxiliary Feedwater Pump from the steam generator level control valves to the main feedwater system.	1-TRI-3-906-A [Note 3]	System Functional	VT-2	03/16/2002	Satisfactory
Main Control Room Chilled Water System - Train A Main Control Room Chilled Water System piping and components	0-TRI-31-902-A [Note 2]	System Inservice	VT-2	01/04/2002	Satisfactory
Main Control Room Chilled Water System - Train B Main Control Room Chilled Water System piping and components	0-TRI-31-902-B [Note 2]	System Inservice	VT-2	01/10/2002	Satisfactory
Electric Board Room Chilled Water System - Train A Electric Board Room Chilled Water System piping and components	0-TRI-31-903-A [Note 2]	System Inservice	VT-2	01/04/2002	Satisfactory
Electric Board Room Chilled Water System - Train B Electric Board Room Chilled Water System piping and components	0-TRI-31-903-B [Note 2]	System Inservice	VT-2	01/11/2002	Satisfactory
Shutdown Board Room Chilled Water System - Train A Shutdown Board Room Chilled Water System piping and components	0-TRI-31-904-A [Note 2]	System Inservice	VT-2	01/22/2002	Satisfactory
Shutdown Board Room Chilled Water System - Train B Shutdown Board Room Chilled Water System piping and components	0-TRI-31-904-B [Note 2]	System Inservice	VT-2	12/17/2001	Satisfactory
Station Drainage - Code Class 3 open ended drain lines from Accumulator Rooms 3 and 4 to inside the polar crane wall.	1-TRI-40-901	Unimpaired Flow	VT-2	03/08/2002	Satisfactory
Demineralized Water - Code Class 2 piping and components associated with the Demineralized Water System penetration through containment.	1-TRI-59-901	System Functional	VT-2	01/30/2002	Satisfactory
Ice Condenser - Code Class 3 floor drain piping and components	1-SI-61-9	Unimpaired Flow	VT-2	03/15/2002	Satisfactory
Ice Condenser - Code Class 2 piping and components associated with the Ice Condenser System penetrations through containment	1-TRI-61-901 [Note 1]	System Inservice	VT-2	12/04/2001	Satisfactory

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Unit: 1
 Commercial Service Date: May 27, 1996

Certificate of Authorization: N/A
 National Board Number for Unit: N/A

WBN Unit 1 Cycle 4 RFO Pressure Test Report
 [First Inspection Interval, second period]

System	Procedure No.	Test Type	Exam	Performance Date	Test Results
Chemical and Volume Control System - Code Class 2 and 3 piping and components located outside containment associated with charging, letdown, seal injection, high head safety injection, and boric acid batching and storage.	1-TRI-62-902 1-TRI-62-903 [Note 1]	System Inservice	VT-2	02/06/2002 02/25/2002	Satisfactory
Safety Injection - Train A and Common Code Class 2 safety injection system piping and components located outside containment	1-TRI-63-901-A	System Functional	VT-2	01/31/2002	Satisfactory
Safety Injection - Train B Code Class 2 safety injection system piping and components located outside containment	1-TRI-63-901-B	System Functional	VT-2	02/16/2002	Satisfactory
Safety Injection - Code Class 2 safety injection system piping and components located inside containment, exclusive of the high safety injection system piping.	1-TRI-63-902	System Functional	VT-2	03/05/2002	Satisfactory
Safety injection - Code Class 2 high head safety injection piping and components from the interface with the Chemical and Volume Control System to the interface with the Code Class 1 boundary.	1-TRI-63-903	System Functional	VT-2	03/05/2002	Satisfactory
Safety Injection - Code Class 2 safety and relief valve discharge header	1-TRI-63-904	System Functional	VT-2	03/17/2002	Satisfactory
Essential Raw Cooling Water - Train A Code Class 3 buried supply piping	0-TRI-67-902-A	Delta Flow	VT-2	02/27/2002	Satisfactory
Essential Raw Cooling Water - Train A Code Class 3 buried discharge piping	0-TRI-67-902-A	Adequate Flow	VT-2	02/27/2002	Satisfactory
Essential Raw Cooling Water - Train A Code Class 3 piping and components located in the Intake Pumping Station	0-TRI-67-903-A	System inservice	VT-2	01/30/2002	Satisfactory
Essential Raw Cooling Water - Train B Code Class 3 piping and components located in the Intake Pumping Station	0-TRI-67-903-B	System inservice	VT-2	01/18/2002	Satisfactory
Essential Raw Cooling Water - Train A Code Class 3 piping and components located in the Auxiliary, Turbine, and Diesel Generator Buildings	0-TRI-67-904-A	System Inservice	VT-2	01/30/2002	Satisfactory
Essential Raw Cooling Water - Train B Code Class 3 piping and components located in the Auxiliary, Turbine, and Diesel Generator Buildings	0-TRI-67-904-B	System Inservice	VT-2	01/18/2002	Satisfactory
Essential Raw Cooling Water - Train A Code Class 3 supply and discharge piping to the Containment Spray heat exchanger 1A-A.	1-TRI-67-905-A	System Functional	VT-2	02/27/2002	Satisfactory
Essential Raw Cooling Water - Train B Code Class 3 supply and discharge piping to the Containment Spray heat exchanger 1B-B.	1-TRI-67-905-B	System Functional	VT-2	02/27/2002	Satisfactory
Reactor Coolant System - Code Class 1 Reactor Coolant and interfacing system piping and components	1-TRI-68-6	System Leakage	VT-2	03/18/2002	Satisfactory
Reactor Coolant System - Code Class 1 bolted joints	1-TRI-68-7	N-533 Alt. for Bolted Joints	VT-2	02/27/2002	Satisfactory
Component Cooling System - Train 1A Code Class 3 Component Cooling System piping and components located outside the reactor building.	1-TRI-70-902-A	System Inservice	VT-2	01/03/2002	Satisfactory

Owner: TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402	Plant: WATTS BAR NUCLEAR PLANT P.O. Box 2000 Spring City, TN 37381-2000
Unit: 1 Commercial Service Date: May 27, 1996	Certificate of Authorization: N/A National Board Number for Unit: N/A

WBN Unit 1 Cycle 4 RFO Pressure Test Report
[First Inspection Interval, second period]

System	Procedure No.	Test Type	Exam	Performance Date	Test Results
Component Cooling System - Train B Code Class 3 Component Cooling System piping and components located outside the reactor building	0-TRI-70-902-B	System Inservice	VT-2	01/08/2002	Satisfactory
Component Cooling System - Train 2A Code Class 3 Component Cooling System piping and components located outside the reactor building.	2-TRI-70-902-A	System Inservice	VT-2	11/26/2001	Satisfactory
Containment Spray - Train 1A Code Class 2 Containment Spray System piping and components	1-TRI-72-901-A	System Functional	VT-2	12/11/2001	Satisfactory
Containment Spray - Train 1B Code Class 2 Containment Spray System piping and components	1-TRI-72-901-B	System Functional	VT-2	01/11/2002	Satisfactory
Residual Heat Removal - Train 1B Code Class 2 Residual Heat Removal System piping and components located outside containment	1-TRI-74-901-B	System Functional	VT-2	01/16/2002	Satisfactory
Residual Heat Removal - Train 1A and 1B Code Class 2 and 3 Sampling System piping and components from the interface with RHR to the Code Class break.	1-TRI-74-902	System Functional	VT-2	01/31/2002	Satisfactory
Spent Fuel Pool Cooling - Train A Code Class 3 Spent Fuel Pool Cooling System piping and components	0-TRI-78-901-A	System Inservice	VT-2	01/31/2002	Satisfactory
Spent Fuel Pool Cooling - Train B Code Class 3 Spent Fuel Pool Cooling System piping and components	0-TRI-78-901-B	System Inservice	VT-2	02/15/2002	Satisfactory
Spent Fuel Pool Cooling - Common Code Class 3 Spent Fuel Pool Cooling System piping and components	0-TRI-78-901-S	System Inservice	VT-2	01/18/2002	Satisfactory
Spent Fuel Pool Cooling - Common Code Class 2 Spent Fuel Pool Cooling System piping and components associated with the reactor cavity cleanup containment penetration	1-TRI-78-902	System Inservice	VT-2	03/03/2002	Satisfactory
Post Accident Sampling - Code Class 2 piping associated with penetration X-28, from the inboard to the outboard containment isolation valves.	1-SI-43-701-A	N-522	App. J	12/06/2001	Satisfactory
Waste Disposal System - Code Class 2 piping associated with penetration X-46, from the inboard to the outboard containment isolation valves.	1-SI-77-701	N-522	App. J	12/05/2001	Satisfactory

Notes

- Credit was taken for a system hydrostatic test under the provisions of Code Case N-498 for the Code Class 2 piping and components examined by this test.
- Credit was taken for a system hydrostatic test under the provisions of Code Case N-498-1 and Request for Relief ISPT-01 for the Code Class 3 piping and components examined by this test.
- Credit was taken for a system hydrostatic test under the provisions of Code Case N-498-1 and Request for Relief ISPT-01 for the Code Class 3 piping and components examined by this test. Credit was taken for a system hydrostatic test under the provisions of Code Case N-498 for the non-insulated Code Class 2 piping examined by this test. Credit was not taken for hydrostatic testing under the provisions of Code Case N-498 for the insulated Code Class 2 piping due to the necessity to either remove the insulation or observe a four hour hold time. Performance of the system functional test for the insulated Code Class 2 piping in lieu of hydrostatic testing under the provisions of Code Case N-498 has been rescheduled for the third period.

Owner: TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402	Plant: WATTS BAR NUCLEAR PLANT P.O. Box 2000 Spring City, TN 37381-2000
Unit: 1 Commercial Service Date: May 27, 1996	Certificate of Authorization: N/A National Board Number for Unit: N/A

**APPENDIX IV
REPORT FOR REPAIRS AND REPLACEMENTS
ASME FORM NIS-2**

Attached are the ASME Form NIS-2s, Report for Repairs and Replacements, for the period from October 8, 2000 to completion of the fourth cycle refueling outage, March 21, 2002.

The following table lists by tracking number the NIS-2s included in this report. Tracking numbers not listed are either for Code Class 3 components or have been deleted.

TRACKING NUMBER	CODE CLASS	WORK ORDER NUMBER	BRIEF DESCRIPTION
RR-04-017	2	01-000715-000	Replace ppg and vlvs 03-0500 & 03-0501
RR-04-019	2	01-011941-000	Replaced studs, nuts pilot poppet & stellite overlay
RR-04-022	1	01-011959-001	Replaced support clamp bolt & nut
RR-04-029	2	01-000602-000	Replace ppg and ftg, X-14B, Lp 4
RR-04-030	2	01-000605-000	Replace ppg and ftg, X-14A, Lp 2
RR-04-031	2	01-000601-000	Replace ppg and ftg, X-14C, Lp 3
RR-04-032	2	01-000603-000	Replace ppg and ftg, X-14D, Lp 1
RR-04-034	2	01-006067-001	Replace vlv to bonnet seal weld
RR-04-040	2	01-005092-000	Repair valve
RR-04-043	1	01-003960-000	Replace valve w/ pretested valve
RR-04-044	1	01-003960-001	Replace valve w/ pretested valve
RR-04-045	1	01-003958-000	Replace valve w/ pretested valve
RR-04-056	2	00-006084-001	Replaced snubber
RR-04-057	2	02-001919-000	Replaced snubber
RR-04-059	2	02-001860-000	Replaced disc
RR-04-061	2	01-004401-000	Replaced bonnet seal weld
RR-04-062	2	01-004402-000	Replaced bonnet seal weld
RR-04-067	1	02-002442-000	Replaced snubber
RR-04-068	2	02-002676-000	Remove pipe and reinstall in support of valve inspection
RR-04-070	2	01-006084-000	Replace snubber load pin
RR-04-071	2	02-002675-000	Remove pipe and reinstall in support of valve inspection
RR-04-074	2	02-002767-000	Perform base metal repair
RR-04-076	2	01-005100-000	Replaced stud and nut on heat exchanger

Owner: TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402	Plant: WATTS BAR NUCLEAR PLANT P.O. Box 2000 Spring City, TN 37381-2000
Unit: 1 Commercial Service Date: May 27, 1996	Certificate of Authorization: N/A National Board Number for Unit: N/A

TRACKING NUMBER	CODE CLASS	WORK ORDER NUMBER	BRIEF DESCRIPTION
RR-04-077	1	01-011959-002	Replaced load pin on clamp end of support
RR-04-078	2	01-003514-001	Replace snubber
RR-04-082	1	02-003864-000	Replace spring can rod
RR-04-083	1	01-003940-000	Replace RCP #2 cartridge seal

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 AS Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 6/14/01
1101 MARKET ST Name CAMPBELL, J.C. 7/25/01
400 W. Summit Hill Drive, Knoxville, TN Sheet 2 of 3

2. Plant Watts Bar Nuclear Plant Unit Unit 1
 Address
 Name
P. O. Box 2000, Spring City, TN, 37381 WORK ORDER 01-000715-000
 Repair Organization P.O. No., Job No., etc.

3. Work Performed by MECHANICAL MAINTENANCE Type Code Symbol Stamp
 Name
WATTS BAR NUCLEAR PLANT Authorization No N/A
P.O. Box 2000 Spring City, TN 37381 Address
 Expiration Date N/A

4. Identification of system 003 AUX/MAIN FEEDWATER

5. (a) Applicable Construction Code SECTION III 1971 Edition, S73 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 28C 3/25/02

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-PIPE-003-B	CONSOLIDATED PIPE SUPPLY	N/A	N/A	SYS 3 PIPE CLASS B HEAT NUMBER 698759	N/A	REPLACEMENT	N

7. Description of Work REPLACED VALVES AND PIPING

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure NOT psi Test Temp NOT °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks TRACKING # RL-04-017.
Applicable Manufacturer's Code Reports to be Attached
REF CODE CASE N-416-1

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed Janet Collins Mech Engineer Date 3/22/02 20
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB I & I Co. of CT of Hartford CT have inspected the components described in this Owner's Report during the period 6/21/01 to 3/25/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M. Earnigh Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/25 20 02

FORM NIS-7 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 7/19/01
1101 MARKET ST Name CHATTANOOGA TN 37402
400 W. Summit Hill Drive, Knoxville, TN Sheet 1 of 2

2. Plant Watts Bar Nuclear Plant Unit Unit 1
 Address P. O. Box 2000, Spring City, TN, 37381 Work Order 01-011941-000

3. Work Performed by Mechanical Maintenance Repair Organization P.O. No., Job No., etc. N/A
 Type Code Symbol Stamp N/A
Watts Bar Nuclear Plt Name P. O. Box 2000 Spring City, Tn 37381 Authorization No N/A

Address P. O. Box 2000 Spring City, Tn 37381 Expiration Date N/A

4. Identification of system 001, MAIN STEAM

5. (a) Applicable Construction Code SECT III Edition, 1982 Addenda, N/A Code Case 78
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements '89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
COVER STUDS	JOS. DYSON & SONS	HT.# 115060, CODE C14F	N/A	SA540, G.B-23	77	REPLACED	
COVER NUTS	JOS. DYSON & SONS	HT.# 114908, CODE C66A-2	N/A	SA540, G.B-23	77	REPLACED	
PILOT POPPET	CANNON SAUL	5-13824	N/A	SA-182, G.F-6	77	REPLACED	
LOWER RIB GUIDE STELLITE OVERLAY	ATWOOD & MORRILL	5-13824	N/A		??	REPAIR	

7. Description of Work REPAIRED DAMAGED STELLITE ON LOWER RIB GUIDE & REPLACED VALVE PARTS
REMOVED WELDS ON PIPE TO CLEAN OUT DEBRI AND REPLACED WELDS

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks

TASCO # RC-04-019

Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed Donna Edwards GF
Owner or Owner's Designee, Title

Date 7/9/01 20

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB I&I Co. of Hartford Ct. have inspected the components described in this Owner's Report during the period 7/3/01 to 7/9/01 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M Earnigh
Inspector's Signature

Commissions TN 2534
National Board, State, Province, and Endorsements

Date 7/9 20 01

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 07/09/01
Name
1101 Market St., Chattanooga, TN 37402 Sheet 1 of 2
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
P. O. Box 2000, Spring City, TN 37381 MAG WO # 01-011959-001
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Watts Bar Nuclear Plant Type Code Symbol Stamp N/A
Name Authorization No N/A
P.O. Box 2000, Spring City TN 37381 Expiration Date N/A
Address

4. Identification of system CYCS 062

5. (a) Applicable Construction Code ASME 7th Edition 1999 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
<u>1-02A-304</u> <u>PIPE SUPPORT</u>	<u>BELLEVILLE</u> <u>PATTERSON</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>		<u>REPLACEMENT</u>	<u>NO</u>

7. Description of Work REPLACED DAMAGED PIPE CLAMP BOLT AND NUT

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be Attached

TRACKING # RR-04-022

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp NONE.

Certificate of Authorization No. NONE.

Signed [Signature] ISI SPECIALIST Date 07/10 2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB I & I of HARTFORD, CT have inspected the components described in this

Owner's Report during the period 7/3/01 to 7/10/01 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 7/10 2001
[Signature]
7/10/01

ASME CERTIFIED REPORT FOR REPAIRS OR REPLACEMENTS
 AS REQUIRED BY THE PROVISIONS OF THE ASME CODE

1. Owner TENNESSEE VALLEY AUTHORITY Date 3/11/2002
Name
1101 Market St., Chattanooga, TN 37402
Address

2. Plant Watts Bar Nuclear Plant Sheet 1 of 2
Name
P. O. Box 2000, Spring City, TN 37381
Address

3. Work Performed by TVA, MECH. MODIFICATIONS Unit Unit 1
Name
WATTS BAR NUCLEAR PLANT
Address

WORK ORDER 01-000602-000
Repair Organization P.O. No., Job No., etc.
 Type Code Symbol Stamp N/A

Authorization No N/A
 Expiration Date N/A

4. Identification of system STEAM GENERATOR BLOWDOWN

5. (a) Applicable Construction Code ASME III 19 71 Edition, SUMMER 73 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPE-015-B	NA	NA	NA	NA	NA	REPLACED Replacement	NO
						KAC 3/11/2002	

7. Description of Work REPLACEMENT OF 4" AND 2" PIPE AND FITTINGS WITH LIKE FOR LIKE MATERIAL.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure SEE WD# 01-012472-000.
 Other Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks CODE CASE N416-1 TRACKING * RR-04-029-21C 8/9/01
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed Kurt H. Powell CONST ENGR Date MARCH 11 20 01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB I & I Co. of CT of Hartford CT. have inspected the components described in this Owner's Report during the period 8/9/01 to 3/12/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M. Enright Commissions TW2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/12 20 02

1. Owner TENNESSEE VALLEY AUTHORITY Date 9-7-2002
Name
 1101 Market St., Chattanooga, TN 37402 Sheet 1 of 2

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Address
 P. O. Box 2000, Spring City, TN 37381 WORK ORDER 01-000605-000

3. Work Performed by TVA, MECH. MODIFICATIONS Type Code Repair Organization P.O. No., Job No., etc. N/A
Name Symbol Stamp N/A
 WATTS BAR NUCLEAR PLANT Authorization No N/A
Address Expiration Date N/A

4. Identification of system STEAM GENERATOR BLOWDOWN

5. (a) Applicable Construction Code ASME III 19 71 Edition, SUMMER 73 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPE-015-B	NA	NA	NA	NA	NA	REPLACED Replacement	NO
						3/11/2002	

7. Description of Work REPLACEMENT OF 4" AND 2" PIPE AND FITTINGS WITH LIKE FOR LIKE MATERIAL.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure REF. WO# 01-012472-000.
 Other Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks CODE CASE N418-1 TRACKING # RR-04-030 SA 4/01
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed J. Petrigue, Field Engineer Date March 7, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB ISI Co. CT of Hartford CT have inspected the components described in this Owner's Report during the period 8/9/01 to 3/12/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M. Egan Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/12 20 02

FORM NS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section X

1. Owner TENNESSEE VALLEY AUTHORITY Date 3-5-2002
Name
1101 Market St., Chattanooga, TN 37402
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1,2
Name
P. O. Box 2000, Spring City, TN, 37381
Address

3. Work Performed by TVA Mech. Modifications Unit WORK ORDER 01-000601-000
Address Repair Organization P.O. No., Job No., etc.
WATTS BAR NUCLEAR PLANT Name Type Code Symbol Stamp N/A
Address Authorization No N/A
 Expiration Date N/A

4. Identification of system STEAM GENERATOR BLOWDOWN

5. (a) Applicable Construction Code SECT. III 19 71 Edition, S73 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SUPPORT 47A400-6-174	N/A	N/A	N/A	N/A	N/A	REPLACED	NO
PIPE-015-B	N/A	N/A	N/A	N/A	N/A	REPLACED	NO

7. Description of Work DISASSEMBLE/ REASSEMBLE SUPPORT TO SUPPORT PIPE REPLACEMENT, REPLACE A325 BOLTS AND REPLACEMENT OF 2" AND 4" PIPE AND FITTINGS WITH LIKE FOR LIKE MATERIAL

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure N.O.P. psi Test Temp N.O.T. °F

To BE PERFORMED IN WORK ORDER 01-012742-000 AND I-TEI-1-902. KHC 3/6/2002

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks CODE CASE N-416-1 TRACKING NO. RR-04-009216 3/12/02
Applicable Manufacturer's Data Reports to be Attached 031

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed J. Petrigal, Field Engineer Date March 5, 2002
Owner or Owner's Designee, Title 18

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSBI + Inc of CT of Hartford CT. have inspected the components described in this Owner's Report during the period 3/7/01 to 3/12/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M. Ewing Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/12 18 2002
AME
3/12/02

FORM NS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code, Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 3/12/02
Name
1101 Market St., Chattanooga, TN 37402
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
P. O. Box 2000, Spring City, TN 37381
Address

3. Work Performed by TVA, MECH. MODIFICATIONS Type Code WORK ORDER 01-000603-000
Name Repair Organization P.O. No., Job No., etc.
WATTS BAR NUCLEAR PLANT Symbol Stamp N/A
Address Authorization No N/A
 Expiration Date N/A

4. Identification of system STEAM GENERATOR BLOWDOWN

5. (a) Applicable Construction Code ASME III 19 71 Edition, SUMMER 73 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPE-015-B	NA	NA	NA	NA	NA	REPLACED Replacement	NO
						ENC 3/11/2002	

7. Description of Work REPLACEMENT OF 4" AND 2" PIPE AND FITTINGS WITH LIKE FOR LIKE MATERIAL.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure SEE WO# 01-012472-000.
 Other Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks CODE CASE N416-1 # AA-01-032 DR 4/6/01
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed Bo Robell FE Date 3-9 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by HSB I&I Co. of CT of Hartford CT. have inspected the components described in this Owner's Report during the period 8/9/01 to 3/12/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M. Eganigh Commissions TN2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/12 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 03/18/02
Name
1101 Market St., Chattanooga, TN 37402
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
P. O. Box 2000, Spring City, TN 37381
Address W.O. 01-006087-001

3. Work Performed by WATTS BAR NUCLEAR PLANT Repair Organization P.O. No., Job No., etc.
Name Type Code Symbol Stamp N/A
P. O. Box 2000, Spring City, TN 37381 Authorization No N/A
Address Expiration Date N/A

4. Identification of system SAFETY INJECTION SYSTEM (SYSTEM 063)

5. (a) Applicable Construction Code ASME SECTION III 19 74 Edition, SUMMER Addenda, NONE Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
WELD 1-063A-T012-41	ROCKWELL EDWARDS	CD788	N/A	1-CKV-063-0725	1987	REPLACE	Y

7. Description of Work REPLACE CHECK VALVE BODY TO BONNET SEAL WELD

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be Attached

TRACKING NO. RR-08-034 REC 4/10/01

REF. CODE CASE N416-1

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed J. Collins MECHANICAL ENGR Date 3/17/02 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE H.S.B.I.E.E.C.E. of COALBROTHER have inspected the components described in this Owner's Report during the period 9-7-01 to 3-19-02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

C.E. Metcalf Commissions TN-2633
Inspector's Signature National Board, State, Province, and Endorsements

Date MARCH 19, 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 03/28/02
Name
 1101 Market St., Chattanooga, TN 37402 Sheet 1 of 2
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
 P. O. Box 2000, Spring City, TN 37381 WORK ORDER 01-005042-000
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by MECHANICAL MAINTENANCE Type Code Symbol Stamp N/A
Name
WATTS BAR NUCLEAR PLANT, PO BOX 2000, SPRING CITY, TN 37381 Authorization No N/A
Address Expiration Date N/A

4. Identification of system 001, MAIN STEAM

5. (a) Applicable Construction Code SECT III 19 74 Edition. S 75 Addenda. N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
NUT (Bonnet)	ATWOOD & MORRILL	FROM VALVE S/N 1-13827	N/A	HT# 114908	1977	Replacement	No
STUD (Bonnet)	ATWOOD & MORRILL	1-13827	N/A	HT# 114908	1977	Replacement	No
NUT (Bonnet)	ATWOOD & MORRILL	OF VALVE S/N 1-13824	N/A	HT# 114908	1977	Replaced	No
STUD (Bonnet)	ATWOOD & MORRILL	1-13824	N/A	HT# 114908	1977	Replaced	No

7. Description of Work Disassembled valve for inspection, replaced one cover stud & nut.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 3 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks TRACKING # RR-04-040 9/27/01
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed John E. Casper ISI SPECIALIST Date 03/28 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB I&I CO. of CT of Hartford CT. have inspected the components described in this Owner's Report during the period 9/28/01 to 3/28/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M. Earnigh Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/28 20 02

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section VIII

1. Owner TENNESSEE VALLEY AUTHORITY Date 03/18/02
Name
1101 Market St., Chattanooga, TN 37402 Sheet 1 of 2
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
P. O. Box 2000, Spring City, TN 37381 MMG W.O. 01-003960-000
Address

3. Work Performed by WATTS BAR NUCLEAR PLANT Type Code Symbol Stamp N/A
Name Repair Organization P.O. No., Job No., etc.
P.O. BOX 2000, SPRING CITY, TENN. 37381 Authorization No N/A
Address Expiration Date N/A

4. Identification of system SYSTEM 068, REACTOR COOLANT SYSTEM

5. (a) Applicable Construction Code ASME SECT. III 19 80 Edition, WINTER Addenda. NONE Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-PCV-068-0334-B	TARGET ROCK	11	N/A	82UU	1997	REPLACE	Y

7. Description of Work REMOVE/REPLACE EXISTING SAFETY RELIEF VALVE

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 2220 -2250 psi Test Temp >500 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks

Applicable Manufacturer's Data Reports to be Attached

TRACKING NO.: RR-04-043 276 10/4/01

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed J. Collins MECHANICAL ENGR. Date 3/16 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by HSB E. & I. Co of CONNECTICUT have inspected the components described in this Owner's Report during the period 10-4-01 to 3-18-02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

C. E. Metcalf Commissions TN-2633
Inspector's Signature National Board, State, Province, and Endorsements

Date MARCH 18, 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 03/19/02
Name
 1101 Market St., Chattanooga, TN 37402 Sheet 1 of 2
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
 P. O. Box 2000, Spring City, TN 37381 MMG W.O. 01-003960-001
Address

3. Work Performed by WATTS BAR NUCLEAR PLANT Type Code Symbol Stamp N/A
Name
 P.O. BOX 2000, SPRING CITY, TENN. 37381 Authorization No N/A
Address Expiration Date N/A

4. Identification of system SYSTEM 088, REACTOR COOLANT SYSTEM

5. (a) Applicable Construction Code ASME SECT. III 19 80 Edition, WINTER Addenda NONE Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-PCV-068-0340A-A	TARGET ROCK	6	N/A	82UU	1983	REPLACE <i>SENT</i>	Y

7. Description of Work REMOVE/REPLACE EXISTING SAFETY RELIEF VALVE

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 2220 -2250 psi Test Temp >500 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks

Applicable Manufacturer's Data Reports to be Attached

TRACKING NO.: RR-02-044-210 11/1/01

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed WASD Mech Eng Date 3/17 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HSB I & I CO of CONNECTICUT have inspected the components described in this Owner's Report during the period 10-04-01 to 3-18-02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

C.E. Metcalf
Inspector's Signature

Commissions TN-2633
National Board, State, Province, and Endorsements

Date MARCH 18 20 02

REPAIR ORGANIZATION P.O. No., Job No., etc.

1. Owner TENNESSEE VALLEY AUTHORITY Date 03/20/02
 Name 1101 Market St., Chattanooga, TN 37402 Sheet 1 of 2
 Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
 Name P. O. Box 2000, Spring City, TN 37381 MMG/WO# 01-003568-000
 Address

3. Work Performed by MECHANICAL MAINTENANCE Type Code Symbol Stamp N/A
 Name WATTS BAR NUCLEAR PLANT, PO BOX 2000 Authorization No N/A
 Address SPRING CITY, TN 37381 Expiration Date N/A

4. Identification of system 068, REACTOR COOLANT SYSTEM (RCS)

5. (a) Applicable Construction Code SECT III 19 71 Edition, ^{N7L}~~673~~ Addenda, ^{N/A}~~N/A~~ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-RFV-068-0583	CROSBY	N56964-10-0098	850	PER SAFETY	1979	REPLACED	Y
1-RFV-068-0563	CROSBY	N56964-10-0095	850	PER SAFETY		REPLACEMENT	Y
1-RFV-068-0564	CROSBY	N56964-10-0029	905	PER SAFETY	1983	REPLACED	Y
1-RFV-068-0564	CROSBY	N56964-10-0033	906	PER SAFETY	1983	REPLACEMENT	Y
1-RFV-068-0865	CROSBY	N56964-10-0034	N/A	PER SAFETY		REPLACED	Y
1-RFV-068-0565	CROSBY	N56964-10-0097	851	PER SAFETY	1979	REPLACEMENT	Y

7. Description of Work Replaced 3 ^{SASERs} PARs with 3 refurbished ^{SASERs} PARs
03-20-02

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 2220-2250 psi Test Temp 7500 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturers Data Reports to be Attached

TRACKING NO.: RR-04-045 296 10/21/01

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed H. Haller Mich. Enginr Date 3/13 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HSB, I. E. Co. of CONCORDIA have inspected the components described in this Owner's Report during the period 10-25-01 to 3-20-02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

O.E. Metcalfe Commissions TN-2633
Inspector's Signature National Board, State, Province, and Endorsements
Date MARCH 20 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 2/8/02
Name
1101 Market St., Chattanooga, TN 37402
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
P. O. Box 2000, Spring City, TN 37381
Address W/O 00-006084-001

3. Work Performed by MECHANICAL MAINTENANCE Repair Organization P.O. No., Job No., etc.
Name Type Code Symbol Stamp N/A
P. O. BOX 2000 SPRING CITY, TN 37381
Address Authorization No N/A

Expiration Date N/A

4. Identification of system 063 - SAFETY INJECTION

5. (a) Applicable Construction Code AISC 19 NA STEEL CONSTRUCTION MANUAL Edition, NA Addenda, NA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-SNUB-063-SISR275	PSA	20768	N/A			Replaced	N
1-SNUB.063-SISR275	PSA	16427	N/A			Replacement	N

7. Description of Work REPLACED SNUBBER

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 1-TAS-0-7
 Other Pressure _____ psi Test Temp _____ °F FUNCTIONAL TEST

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks TRACKING NO. RR-04-056 2/16/02
Applicable Manufacturers Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed [Signature] ISE SARGENT Date 2/21 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB IPI Co. - CT of Hartford CT. have inspected the components described in this Owner's Report during the period 2/8/02 to 2/21/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/21 20 02

FORM NIS-2 (BACK)

9. Remarks TRACKING No RR-04-057 ETC 2/11/02
Applicable Manufacturers Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed [Signature] Date 3/12 20 07
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by ASB II Co Inc of Hartford CT have inspected the components described in this Owner's Report during the period 2/11/02 to 3/12/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions TN2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/12 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 3/12/02
1101 MARKET ST CHATT. Name
400 W. Summit Hill Drive, Knoxville, TN Address
 2. Plant Watts Bar Nuclear Plant Unit Unit 1
- P. O. Box 2000, Spring City, TN, 37381 Name
 Work Order 02-001860-000
 Address
 3. Work Performed by Mechanical Maintenance Repair Organization P.O. No., Job No., etc.
Watts Bar Nuclear Plt Name
P. O. Box 2000 Spring City, Tn 37381 Address
 Type Code Symbol Stamp N/A
 Authorization No N/A
 Expiration Date N/A

4. Identification of system 062, C.V.C.S.

5. (a) Applicable Construction Code SECT III 1974 Edition, W74 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-ISV-062-0548	KEROTEST	HX3-13	N/A	N/A	1975	Replacement	Y
DISC	EXISTING VLV 9W/ZP	310182 S/N	N/A	N/A	'94	REPLACEMENT	Y

7. Description of Work REPLACED DISC

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks TRACKING NO. RR-04-059
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair ^{Replacement} conforms to the rules of the ASME Code, Section XI. 3/17/02

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed Dennis Edmund ^{M/M/Q} Coordinator Date 3/12/02 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE H.S.B. I & I. Co. of CONNECTICUT have inspected the components described in this Owner's Report during the period 2-19-02 to 3-19-02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

C. E. Metcalfe Commissions TN-2633
Inspector's Signature National Board, State, Province, and Endorsements

Date MARCH 19, 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 01-08-2002
Name
1101 Market St., Chattanooga, TN 37402
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
P. O. Box 2000, Spring City, TN 37381
Address

3. Work Performed by MECHANICAL MAINTENANCE W/O 01-004401-000
Name
P.O. BOX 2000 SPRING CITY, TN 37381
Address

Repair Organization P.O. No., Job No., etc.
 Type Code Symbol Stamp N/A

Authorization No N/A
 Expiration Date N/A

4. Identification of system 063 - SAFETY INJECTION

5. (a) Applicable Construction Code Sect.III 19 74 Edition, w 74 Addenda, n/a Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
<u>1-0638-T026-18</u>	<u>TVA</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>REPLACEMENT</u>	<u>NO</u>

7. Description of Work Replace Burnt SEAL WELD

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure REFERENCE
 Other Pressure _____ psi Test Temp _____ °F 1-TRI-68-6

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks TRACKING NO. RR-04-061 CODE CASE N-416-1

Applicable Manufacturer's Data Reports to be Attached

2/23/02

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed *Demetrius Edmond* *G. Foran* Date 3/8/02 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by HCP I&E CO. INC of HARTFORD CT have inspected the components described in this Owner's Report during the period 2/17/02 to 3/7/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M. Earnig Commissions TN2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/8 2002

FORM NIS-2: OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 03/08/02
Name
1101 Market St., Chattanooga, TN 37402
Address
 2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
P. O. Box 2000, Spring City, TN 37381
Address
 3. Work Performed by MECHANICAL MAINTENANCE Repair Organization P.O. No., Job No., etc.
P.O. BOX 2000 SPRING CITY, TN 37381 Name Type Code Symbol Stamp N/A
Address Authorization No N/A
 Expiration Date N/A

4. Identification of system 063 - SAFETY INJECTION

5. (a) Applicable Construction Code Sect. III 19 74 Edition, w 74 Addenda, n/a Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
<u>1-063B-7112 14</u>	<u>TVA</u>	<u>N/A</u>	<u>N/A</u>		<u>N/A</u>	<u>REPLACEMENT</u>	<u>NO</u>

7. Description of Work Replace Bonnet Seal Weld

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure REFERENCE
 Other Pressure _____ psi Test Temp _____ °F 1-TAI-68-6

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks TRACKING NO. RA-04-062 CODE CASE N-416-1

Applicable Manufacturer's Data Reports to be Attached

RA-21162

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this ^{1/18/02} Repair/ceal conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed *Walter Edward* ^{m/m/c} Coordinator Date 3/18/02 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by H.B. I.I. Co. of CT of Hartford CT. have inspected the components described in this Owner's Report during the period 2/17/02 to 3/1/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M. Earnigh Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/7 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 02-01-2002
Name
1101 Market St., Chattanooga, TN 37402 Sheet 1 of 2
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
P. O. Box 2000, Spring City, TN 37381 MMG/WO# 02-002442-000
Address

3. Work Performed by MECHANICAL MAINTENANCE Type Code Symbol Stamp N/A
Name Repair Organization P.O. No., Job No., etc.
WATTS BAR NUCLEAR PLANT, PO BOX 2000 Authorization No N/A
Address Spring City, TN 37381

4. Identification of system 062, CHEMICAL VOLUME CONTROL (CVCS) Expiration Date N/A

5. (a) Applicable Construction Code AISC 19 19 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-SNUB-062-62A4	PSA	4928	N/A			REPLACED	No
1-SNUB-062-62A4	PSA	1046	N/A			REPLACEMENT	No

7. Description of Work REPLACED SNUBBER

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 *Other Pressure _____ psi Test Temp _____ °F
 * 1-TR1-0-7

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks

Applicable Manufacturer's Data Reports to be Attached

TRACKING # RR-02 04-067

REC 2/27/02

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed [Signature] ESI SPECIALIST Date 03/01 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by HSB-CT of Hartford CT have inspected the components described in this Owner's Report during the period 2/27/02 to 3/1/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M. Earnigh Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/1 20 02

FORMER'S/OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code, Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 3-5-2002
Name
1101 Market St., Chattanooga, TN 37402
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
P. O. Box 2000, Spring City, TN, 37381
Address

3. Work Performed by TVA Modifications Work Order 02-002676-000
Name Repair Organization P.O. No., Job No., etc.
Watts Bar Nuclear Plant Type Code Symbol Stamp N/A
Address Authorization No N/A
 Expiration Date N/A

4. Identification of system 001 Main Steam

5. (a) Applicable Construction Code ASME III 19 71 Edition, S73 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-PIPE-001-B	N/A	N/A	N/A	N/A	NA	Replaced	No

7. Description of Work Remove and reinstall piping to support inspection of 1-FCV-001-0029

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NOT
 Other Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

NIS-2 FORM SHEET 2 OF 2

FORM NIS-2 (Back)

9. Remarks Code Case N-418-1 Tracking No. RR-04-06B 2/26/02
Applicable Manufacturers Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed Kenneth C. Smith, FIELD ENGR Date 3/22 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE H.S.B. I & T. Co of CONNECTICUT have inspected the components described in this Owner's Report during the period 3-2-02 to 3-22-02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

C.E. Metcalf Commissions TN 2633
Inspector's Signature National Board, State, Province, and Endorsements

Date MARCH 22, 2002

FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS
 AS Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 3/11/02
Name
1101 Market St., Chattanooga, TN 37402 Sheet 1 of 2
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
P. O. Box 2000, Spring City, TN 37381 MMG/WO# 01-006084-000
Address

3. Work Performed by MECHANICAL MAINTENANCE Repair Organization P.O. No., Job No., etc.
Name Type Code Symbol Stamp N/A
WATTS BAR NUCLEAR PLANT, PO BOX 2000 Authorization No N/A
SPRING CITY, TN 37381 Address Expiration Date N/A

4. Identification of system 003, FEEDWATER (FW) *DRW 3/11/02*

5. (a) Applicable Construction Code AISC ^{7th}~~19~~ Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-SNUB-003-03A480	PSA	SNUBBER SN 15492	N/A	LOAD PIN	N/A	REPLACED	No
1-SNUB-003-03A480	PSA	SNUBBER SN 15492	N/A	LOAD PIN PN 1801341-05	N/A	REPLACE- MENT	No

7. Description of Work REPLACED LOAD PIN ON CLAMP END. *DRW 3/11/02*

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 *Other Pressure _____ psi Test Temp _____ °F
 * 1-TR1-0-7

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks

Applicable Manufacturer's Data Reports to be Attached

TRACKING # RR-02-04-070

2PC 3/11/02

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed D. J. Snubber Eng Date 3/11 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB I & I Co. of CT of HA-Tford CT have inspected the components described in this Owner's Report during the period 3/4/02 to 3/11/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M. Emigh Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/11 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section I

1. Owner TENNESSEE VALLEY AUTHORITY Date 3-5-2002
Name
 1101 Market St., Chattanooga, TN 37402 Sheet 1 of 2
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
 P. O. Box 2000, Spring City, TN 37381 **WORK ORDER# 02-002675-000**
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by TVA MODIFICATIONS Type Code Symbol Stamp N/A
Name
 WATTS BAR NUCLEAR PLANT Authorization No N/A
Address Expiration Date N/A

4. Identification of system MAIN STEAM / SYSTEM 001

5. (a) Applicable Construction Code ASME SECT. III 19 71 Edition, S73 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-PIPE-001-B	N/A	N/A	N/A	N/A	N/A	REPLACEMENT REPLACED <i>WMA</i> 3/2/2002	NO

7. Description of Work REMOVE & REINSTALL PIPING TO SUPPORT INSPECTION OF 1-FCV-001-0022

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure NOT
 Other Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

NIS-2 FORM SHEET 2 OF 2

FORM NIS-2 (Back)	
9. Remarks	Code Case N-416-1 Tracking No. <u>RA-04-071</u> <small>Applicable Manufacturer's Data Reports to be Attached</small>
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the repair or replacement rules of the ASME Code, Section XI.	
Type Code Symbol Stamp	<u>N/A</u>
Certificate of Authorization No.	<u>N/A</u>
Signed	<u>Richard H. Cull</u> <u>FEW ENGR</u> Date <u>3/22</u> 20 <u>02</u> <small>Owner or Owner's Designee, Title</small>
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Tennessee</u> and employed by <u>The H.B.I. & I. Co.</u> of <u>Connecticut</u> have inspected the components described in this Owner's Report during the period <u>3-4-02</u> to <u>3-22-02</u> and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
<u>C.E. Melrose</u> <small>Inspector's Signature</small>	Commissions <u>TN-2633</u> <small>National Board, State, Province, and Endorsements</small>
Date <u>March 22, 2002</u>	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code, Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 3/18/2002
Name
 1101 Market St., Chattanooga, TN 37402
Address
 Sheet 1 of 2

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
 P. O. Box 2000, Spring City, TN 37381
Address
 WORK ORDER# 02-002767-000
Repair Organization P.O. No., Job No., etc.
 3. Work Performed by TVA MODIFICATIONS Type Code Symbol Stamp N/A
Name
 WATTS BAR NUCLEAR PLANT
Address
 Authorization No N/A
 Expiration Date N/A

4. Identification of system FEEDWATER / SYSTEM# 003

5. (a) Applicable Construction Code ASME SECT. III 19 71 Edition, S73 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-PIPE-003-B	N/A	N/A	N/A	N/A	N/A	REPAIRED	NO

7. Description of Work REPAIRED DEFECT IN 90 DEG. ELBOW BY WELDING.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure N.O.T. psi Test Temp N.O.P. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks CODE CASE N-416-1 TRACKING# RR-04-07 + 200 8/1/02
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the
 repair or replacement
 rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed M. J. Wood, CONST. ENGR. Date 3/18 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
 Inspectors and the State or Province of TENNESSEE and employed by THE HSB I & I CO.
 of CONNECTICUT have inspected the components described in this
 Owner's Report during the period 3-6-02 to 3-19-02 and state that to the best
 of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
 in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied,
 concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
 the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
 loss of any kind arising from or connected with this inspection.

C. E. Metcalf Commissions TN-2633
Inspector's Signature National Board, State, Province, and Endorsements

Date MARCH 19, 2002

ASME B31.1	
9. Remarks	Applicable Manufacturer's Data Reports to be Attached
<p style="font-size: 1.2em; margin: 0;">TRACKING # RR-04-076</p>	
CERTIFICATE OF COMPLIANCE	
<p>We certify that the statements made in the report are correct and this <u>REPLACEMENT</u> conforms to the repair or replacement rules of the ASME Code, Section XI.</p>	
<p>Type Code Symbol Stamp <u>N/A</u></p>	
<p>Certificate of Authorization No. <u>N/A</u></p>	
<p>Signed <u><i>Demetrius Edward</i></u> <u><i>Coordinator</i></u> Date <u><i>3/19/02</i></u> 20<u> </u> <small>Owner or Owner's Designee, Title</small></p>	
CERTIFICATE OF INSERVICE INSPECTION	
<p>I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Tennessee</u> and employed by <u>HSB I & I Co. of CT</u> of <u>Hartford CT.</u> have inspected the components described in this Owner's Report during the period <u>3/7/02</u> to <u>3/25/02</u> and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.</p> <p>By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.</p>	
<p><u><i>Bruce M. Earnigh</i></u> Commissions <u><i>TN 2534</i></u> <small>Inspector's Signature</small> <small>National Board, State, Province, and Endorsements</small></p>	
<p>Date <u><i>3/25</i></u> 20<u><i>02</i></u></p>	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code, Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 3/8/52
Name
 1101 Market St., Chattanooga, TN 37402 Address Sheet 1 of 2

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
 P. O. Box 2000, Spring City, TN 37381 Address WO 01-011959-002
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Mechanical Maint. Type Code Symbol Stamp N/A
Name
Watts Bar Nuclear Plant Authorization No N/A
Address Expiration Date N/A

4. Identification of system 062

5. (a) Applicable Construction Code AISC 19 NA Edition, NA Addenda, NA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
<u>Support # 1-62A-304</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Replacement</u>	<u>No</u>

7. Description of Work Replaced load pin on clamp end of supp # 1-62A-304

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure N/A
 Other Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks Trkng # RR-04-077
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed EDM: Gay - Sr Mech Engr Date 3/7 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB III - CT of Hartford CT have inspected the components described in this Owner's Report during the period 3/7/02 to 3/8/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M Earnigh Commissions TN 2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/8 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 03/10/02
Name
1101 Market St., Chattanooga, TN 37402 Sheet 1 of 2
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
P. O. Box 2000, Spring City, TN 37381 MMG/WO# 01-003514-001
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by MECHANICAL MAINTENANCE Type Code Symbol Stamp N/A
Name Authorization No N/A
WATTS BAR NUCLEAR PLANT, PO BOX 2000
Address SPRING CITY, TN 37381 Expiration Date N/A

4. Identification of system 063, SAFETY INJECTION SYSTEM (SIS)

5. (a) Applicable Construction Code AISC ^{ASME} 1977 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-SNUB-063-63467	PSA	38814	N/A	N/A	N/A	REPLACED	No
1-SNUB-063-63467	PSA	915	N/A	N/A	N/A	REPLACEMENT	No

7. Description of Work REPLACED SNUBBER

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 *Other Pressure _____ psi Test Temp _____ °F
 * 1-TR1-0-7

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks

Applicable Manufacturer's Data Reports to be Attached

TRACKING # RR-04 - 078

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed [Signature] ISI SPECIALIST Date 3/11 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by ASB I & I Co. & CT of Hartford CT. have inspected the components described in this Owner's Report during the period 3/8/02 to 3/12/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions TW2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/12 20 02

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 03-16-02
Name
1101 Market St., Chattanooga, TN 37402 Sheet 1 of 2
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
P. O. Box 2000, Spring City, TN 37381 W/O 02-003864-000
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by MECHANICAL MAINTENANCE Type Code Symbol Stamp N/A
Name Authorization No N/A
P.O. BOX 2000 SPRING CITY, TN 37381 Expiration Date N/A
Address

4. Identification of system 068-REACTOR COOLANT

5. (a) Applicable Construction Code AISC 7TH Edition, N/A Addenda, n/a Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-HGR-068-RB	N/A	N/A	N/A	1-68-364		REPLACEMENT	NO

7. Description of Work REPLACED SPRING CAN ROD

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks TRACKING NO. KR-04-082
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIRMENT conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed Tom E. P... ISE SPECIALIST Date 3/10 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by HJB I. & I. Co of CONNECTICUT have inspected the components described in this Owner's Report during the period 3-16-02 to 3-18-02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

C.E. Metcalf Commissions TN 2633
Inspector's Signature National Board, State, Province, and Endorsements

Date MARCH 18, 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner TENNESSEE VALLEY AUTHORITY Date 2-7-02
Name
1101 Market St., Chattanooga, TN 37402 Sheet 1 of 2
Address
 2. Plant Watts Bar Nuclear Plant Unit Unit 1
Name
P. O. Box 2000, Spring City, TN 37381 W/O 01-003940-000
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by MECHANICAL MAINTENANCE Type Code Symbol Stamp N/A
Name Authorization No N/A
P.O. BOX 2000 SPRING CITY, TN 37381
Address Expiration Date N/A

4. Identification of system 068 - REACTOR COOLANT SYSTEM

5. (a) Applicable Construction Code ASME III 19 Summer Edition, 1972 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Cartridge Seal	Westinghouse	2287	N/A	P/N 5055 D24G01	90	REPLACEMENT	No

7. Description of Work REMOVING MECHANICAL SEAL S/N 2183. REPLACING WITH S/N 2287 WHICH WAS REBUILT BY W/O 01-013339-000.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 2500 psi Test Temp 650 °F
 REFERENCE: 1-TRI-68-6
W/O 01-05882-000

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks TRACKING NO. RR-04-083
Applicable manufacturer's data reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the repair or replacement rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed Donnie Wayman Planner Date 2-7-02 20
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB I&E Co. of CT of Hartford CT have inspected the components described in this Owner's Report during the period 2/7/02 to 3/27/02 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Bruce M. Earnigh Commissions TN2534
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/27 2002