

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

William R. Lagergren, Jr.  
Site Vice President, Watts Bar Nuclear Plant

10 CFR 50.55a

DEC 05 2000

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

Gentlemen:

In the Matter of )  
Tennessee Valley Authority )

Docket No.50-390

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

The purpose of this letter is to provide the subject summary report to NRC within 90 days of the completion of the Inservice Inspection as required by ASME Section XI, IWA-6200 of the 1989 Edition of the ASME Section XI Code. Enclosure 1 provides the summary report which documents the results of the ASME Section XI examinations, tests, repairs and replacements performed during the third cycle of operation. The Cycle 3 refueling outage is the first of two outages in the Second Period of the First Inservice Inspection Interval.

Included in this Summary Report are: 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-2. The results of the reactor coolant pump flywheel examined in accordance with Regulatory Guide 1.14, "Reactor Coolant Pump Flywheel Integrity," are also included.

Six relief requests are required to be written for ISI components examined during this inspection. The relief requests are summarized in this letter. The request for approval will be submitted under separate letter.

A047

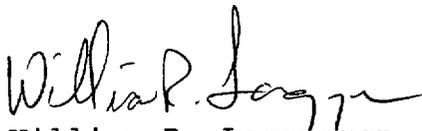
DEC 05 2000

During performance of the Containment Inservice Inspection, a flaw was identified on a Code Class MC component. As required by 10 CFR 50.55a(b)(2)(ix)(D)(1), information concerning a description of the flaw, acceptability, need for additional examinations and corrective action are reported in this Summary Report.

The pressure test summary includes a test performed for first period code credit. It was performed after the Cycle 2 refueling outage but before the end of the first period. TVA committed in a letter dated June 28, 2000, which provided the Cycle 2 Summary Report, to provide the pressure test from that time period in the Cycle 3 Summary Report.

Enclosure 2 provides the commitment identified in this letter. If you have any questions about the Cycle 3 ISI Summary Report, please contact P. L. Pace at (423) 365-1824.

Sincerely,

  
William R. Lagergren

Enclosure

cc (Enclosure):

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

Mr. Robert E. Martin, Senior Project Manager  
U.S. Nuclear Regulatory Commission  
One White Flint North  
11555 Rockville Pike  
Rockville, Maryland 20852

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

**ENCLOSURE 1**

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

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

**ASME SECTION XI**

**INSERVICE INSPECTION**

**SUMMARY REPORT**

**THIRD REFUELING CYCLE**

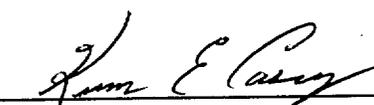
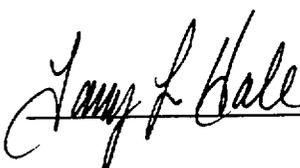
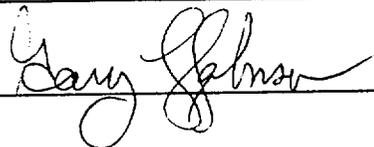
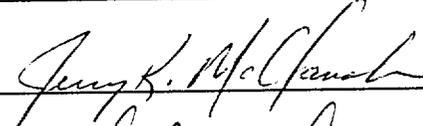
Owner: TENNESSEE VALLEY AUTHORITY  
Chattanooga Office Complex  
1101 Market Street  
Chattanooga, TN 37402

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		10/25/00
Concurred by:			
T. L. Hale	ISO ISI/NDE Coordinator		10/25/00
N. R. Bentley	ISO NDE Level III	copy signed by NRBentley	10/25/00
G. L. Johnson	System Pressure Test Engineer		10/25/00
J. V. Lyon	Steam Generator Specialist	copy signed by JVLyon	10/25/00
J. K. McClanahan	Corporate ISI Specialist		10/26/00
M. D. Davis	Component Engineering Manager		11/15/00
Approved by:			
D. F. Helms	System Engineering Manager		11/16/00

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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: October 26, 2000

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

NIS-1 FOR THE ISI EXAMINATION PLAN

**FORM NIS-1 OWNERS' REPORT FOR INSERVICE INSPECTIONS**

As required by the Provisions of the ASME Code Rules

1. Owner Tennessee Valley Authority, 1101 Market St. Chattanooga, TN 37402-2801  
(Name and Address of Owner)
2. Plant Watts Bar Nuclear Plant, P.O. Box 2000, Spring City, TN 37381-2000  
(Name and Address of Plant)
3. Plant Unit One (1) 4. Owner Certificate of Authorization (if required) Not Required
5. Commercial Service Date May 27, 1996 6. National Board Number for Unit None Assigned

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
See Appendix I, Examination Plan, for List of Components	Tennessee Valley Authority	N/A	N/A	N/A

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.

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: April 17, 1999 to October 7, 2000
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: August 17, 2000/I-TRI-0-10, Revision 6
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. See Summary of Notification of Indications (NOIs)

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 10/25 20 00 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 Hartford CT. have inspected the components described in this Owners' Data Report during the period 4/16/99 to 11/15/00, 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 I N A C  
Inspector's Signature National Board, State, Province and Endorsements

Date 11/15 20 00



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: September 20, 2000 to September 27, 2000
- 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: September 13, 2000/1-SI-68-907, Revision 5
- 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 10-24 20 00 Signed Tennessee Valley Authority By James V. Lyon  
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 Hartford CT. have inspected the components described in this Owners' Data Report during the period 4/16/99 to 11/15/00, 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 INAC  
Inspector's Signature National Board, State, Province and Endorsements  
 Date 11/15 20 00



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: April 17, 1999 to October 7, 2000
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: September 27, 2000/TI-100.009, Revision 2
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 IV
14. Abstract of Results of Examinations and Tests. See Appendix IV
15. Abstract of Corrective Measures. See Appendix IV

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 Oct 25, 2000 20      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 HARTFORD CT. have inspected the components described in this Owners' Data Report during the period 4/16/99 to 11/15/00, 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 INAC  
Inspector's Signature National Board, State, Province and Endorsements

Date 11/15 2000

Owner: TENNESSEE VALLEY AUTHORITY  
Chattanooga Office Complex  
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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 third cycle of operation of TVA's Watts Bar Nuclear Plant's Unit 1. The cycle 3 refueling outage is the first of two outages in the Second Period of the First Inservice Inspection Interval.

Included in this cycle 3 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.

In addition, a flaw was identified during inspection of a Code Class MC component. As required by 10 CFR 50.55a(b)(2)(ix)(D)(1), information concerning a description of the flaw, acceptability, need for additional examinations and corrective action is reported in this Summary Report.

### 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 3. Two components did not meet the applicable acceptance standards and are summarized in the Notification of Indications Summary. Examination of 11 components require that 6 requests for relief be prepared as the required code coverage could not be obtained. These are summarized in the Request for Relief Summary. The examination results for the ISI components are summarized in Appendix I.

Included in the Notification of Indications Summary is the information required by 10 CFR 50.55a(b)(2)(ix)(D)(1) for Code Class MC component examinations which revealed flaws. One nut from the pressure retaining bolting for penetration X-037 failed the visual examination requirements of ASME Section XI, Table IWE-2500-1, Examination Category E-G. As required by 10 CFR 50.55a(b)(2)(ix)(A), inaccessible areas that could indicate the presence of degradation reported in accessible areas were evaluated and no inaccessible areas were identified containing pressure retaining bolting. The containment ISI examinations were performed in accordance with Technical Instruction TI-100.012, "ASME Section XI Containment Inservice Inspection Program."

Included in 1-TRI-0-10 are the augmented requirements to perform examination of the Reactor Coolant Pump Flywheels in accordance with Regulatory Guide 1.14, "Reactor Coolant Pump Flywheel Integrity." Examination for each flywheel was acceptable. The examination results are summarized in Appendix II.

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." Twenty nine tubes were plugged as a result of this inspection. The results are summarized in Appendix III.

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 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. The Sampling and Water Quality system pressure test 1-SI-43-701-A was performed for first period code credit and is reported in this Summary Report as referenced in the cycle 2 Summary Report. The actual performance was after the cycle 2 refueling outage but before the end of the first period.

Appendix V provides a summary of the repairs and replacements performed during the third 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."

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

**TABLE 1  
SUMMARY OF CYCLE 3 ISI EXAMINATIONS**

<u>Examination Category</u>	<u>Item Number</u>	<u>Component Description</u>	<u>Number Examined</u>
<u>Code Class 1 Components</u>			
B-B	B2.40	Steam Generator Tubesheet-to-Head Weld	1
B-D	B3.140	Steam Generator Primary Nozzle Inside Radius Section	2
B-F	B5.70	Steam Generator Nozzle-to-Safe End Dissimilar Metal Butt Weld NPS 4 or Larger	2
B-G-2	B7.30	Steam Generator Manway Pressure Retaining Bolting	2
	B7.70	Valve Pressure Retaining Bolting	1
B-M-2	B12.50	Valve Body	1
B-N-1	B13.10	Reactor Vessel Interior	1
F-A		Component Supports	
of Code Case	F1.10	Piping Supports	25
N-491	F1.40	Equipment Supports	4
<u>Code Class 2 Components</u>			
C-A	C1.10	CS Heat Exchanger Shell-to-Flange Weld	1
		RHR Heat Exchanger Shell-to-Flange Weld	1
	C1.20	Boron Injection Tank Head Circumferential Welds	2
		RHR Heat Exchanger Head Circumferential Weld	1
C-B	C2.21	Boron Injection Tank Nozzle-to-Shell Welds	2
	C2.31	CS Heat Exchanger Nozzle Reinforcement Pad Welds	2
	C2.32	CS Heat Exchanger Nozzle-to-Shell Welds	2
C-C	C3.10	Pressure Vessel Integrally Welded Attachments	6
	C3.20	Piping Integrally Welded Attachments	3
	C3.30	Pumps Integrally Welded Attachments	1
C-D	C4.10	Boron Injection Tank Pressure Retaining Bolting	1
C-G	C6.20	Valve Body Welds	1
F-A		Component Supports	
of Code Case	F1.20	Piping Supports	53
N-491	F1.40	Equipment Supports	7

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
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SUMMARY OF  
NOTIFICATION OF INDICATIONS (NOIs)

Three NOIs were initiated on components as described below.

NOI 03-001

Component: 72-1CS-V008  
Report Number: R0547  
Indication: Spring can setting out of tolerance.  
Disposition: Spring can setting acceptable by evaluation. No additional sample required.

NOI 03-002

Component: RCPH-2  
Report Number: R0604  
Indication: Loose bolting on reactor coolant pump #2 support  
Disposition: Bolt was tightened on work order 00-012378-000 and support was reexamined and found acceptable as documented on report R0710. A first additional sample was generated and examined and results were found to be acceptable.

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SUMMARY OF  
NOTIFICATION OF INDICATIONS (NOIs)  
page 2 of 2

NOI 03-003

Component: X-037-BLT

Report Number: R0711

Indication: Damaged nut on penetration X-037 pressure retaining bolting

Disposition: As required by 10 CFR 50.55a(b)(2)(ix)(D)(1), the following information is provided for Code Class MC components:

1. A description of each flaw, including the extent of degradation and conditions that led to the degradation:

The identified nut was evaluated by Engineering as containing a fabrication process discontinuity known as a burst. This occurs during the forging operation, usually on the flats or corners of nuts and results in an open break in the metal. The burst on the identified nut extends across one of the flats and through the bearing circle on the bottom face. The crown (top) surface of the nut is unaffected. The extent of the burst exceeds the acceptable limits specified in ASTM F 812.

2. The acceptability of each flaw and the need for additional examinations to verify that similar degradation does not exist in similar components:

The flaw is not acceptable and the nut was replaced. There are a total of 11 containment penetrations, including X-037, with similar stud and nut pressure retaining bolting classified as Examination Category E-G. Eight of these penetrations were scheduled for visual examination this outage and with exception of the one nut on penetration X-037, all were found acceptable. The 3 remaining penetrations were scheduled for additional examination and the pressure retaining bolting on each was visually examined and found acceptable.

The IWE inspection performed this outage is the first period inservice inspection performed as required by the 10 CFR 50.55a requirements. As noted in 10 CFR 50.55a(6)(ii)(B)(1), this inspection also serves the same purpose as the preservice examination specified for plants not yet in operation. Therefore, if a preservice examination had been performed on the bolted connection prior to operation, the flaw would have been discovered and the nut replaced prior to operation.

3. A description of necessary corrective actions:

The nut was replaced by work order 00-007629-000. A preservice examination was performed on the replacement nut and found acceptable as documented on examination report R0713.

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

Six RFRs are required to be written for ISI components examined during this inspection. The RFRs summarized below are required as the result of not obtaining required code coverage due to limitations. The RFRs will be submitted under separate letter to the NRC.

Proposed RFR 1-ISI-07

ISI Component Number(s):       CCPH-1A-A-IA

Component Description:         Centrifugal Charging Pump 1A Integrally Welded Attachment

Examination Category/Item No.: C-C/C3.30

Report Numbers:                 R0569

Summary:                         Due to design configuration of the centrifugal charging pump integrally welded attachments, surface examination of the attachment weld resulted in less than 100% of ASME code coverage being achieved. Approximately 84% coverage of the surface was examined. Surface examination of the integrally welded attachment is required in accordance with Code Case N-509 Table 2500-1, Examination Category C-C, Item Number C3.30. The examination surface requirement is defined by Figure IWC-2500-5.

Proposed RFR 1-ISI-08

ISI Component Number(s):       RCF-D1-2-SE and RCF-F1-1-SE

Component Description:         Steam Generator Primary Nozzle Safe End Weld

Examination Category/Item No.: B-F/B5.70

Report Number:                 R0673 and R0672

Summary:                         Due to geometric configuration of the steam generator nozzles, volumetric examination of two nozzle-to-safe end butt welds resulted in less than 100% of ASME code coverage being achieved. The geometric configuration of the nozzle prevents the performance of an ultrasonic scan from the generator side of the weld, thus preventing 100% examination of the required lower one-third volume. A surface examination was performed on each of the welds and was found acceptable. Volumetric examination of this component is required in accordance with ASME Section XI Table IWB-2500-1, Examination Category B-F, Item Number B5.70. The lower one-third volume weld examination requirement is defined by Figure IWB-2500-8(c).

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**SUMMARY OF  
REQUESTS FOR RELIEF (RFRs)  
page 2 of 3**

**Proposed RFR 1-ISI-09**

ISI Component Number(s): RHRHX-2-1A

Component Description: RHR Heat Exchanger 1A Shell-to-Flange Weld

Examination Category/Item No.: C-A/C1.10

Report Number: R0574

Summary: Due to design configuration of the RHR Heat Exchanger, volumetric examination of the shell-to-flange weld resulted in less than 100% of ASME code coverage being achieved. The heat exchanger nozzles and support pads limit performing the required volumetric examination on the shell-to-flange weld. Approximately 77% coverage was achieved by scanning over the weld. Volumetric examination of this component is required in accordance with ASME Section XI Table IWB-2500-1, Examination Category C-A, Item Number C1.10. The full volume weld examination requirement is defined by Figure IWC-2500-1.

**Proposed RFR 1-ISI-10**

ISI Component Number(s): BIT-5-IA, BIT-6-IA, BIT-7-IA, and BIT-8-IA

Component Description: Boron Injection Tank Integrally Welded Attachments

Examination Category/Item No.: C-C/C3.10

Report Numbers: R0600, R0601, R0602, and R0603

Summary: Due to design configuration of the Boron Injection Tank integrally welded attachments and the support legs, surface examination of the integrally welded attachment welds resulted in less than 100% of ASME code coverage being achieved. The design configuration of the support legs obstructs the lower portion of the integrally welded attachment welds, thus preventing 100% examination of the required examination surface area. A surface examination was performed on all accessible surface areas of the integrally welded attachment welds and was found acceptable. Surface examination of this component is required in accordance with Code Case N-509, Table 2500-1, Examination Category C-C, Item Number C3.10. The examination surface area requirement is defined by Figure IWC-2500-5.

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)  
page 3 of 3

Proposed RFR 1-ISI-11

ISI Component Number(s): BIT-2 and BIT-3  
Component Description: Boron Injection Tank Head Circumferential Welds  
Examination Category/Item No.: C-A/C1.20  
Report Numbers: R0690 and R0691

Summary: Due to geometric configuration and material of the Boron Injection Tank, volumetric examination of the head-to-shell welds resulted in less than 100% of ASME code coverage being achieved. The boron injection tank is fabricated of SA-351 CF8A material. At present, the only examination being performed on this material is a 45° RL large transducer. Due to the taper at the tank shell to the head, using a 45° RL transducer would be ineffective. Approximately 60% coverage was achieved by scanning over the weld. Volumetric examination of this component is required in accordance with ASME Section XI Table IWB-2500-1, Examination Category C-A, Item Number C1.20. The full volume weld examination requirement is defined by Figure IWC-2500-1.

Proposed RFR 1-ISI-12

ISI Component Number(s): BIT-1 and BIT-4  
Component Description: Boron Injection Tank Nozzle-to-Vessel Welds  
Examination Category/Item No.: C-B/C2.21  
Report Number: R0689 and R0692

Summary: Due to geometric configuration of the Boron Injection Tank, volumetric examination of the nozzle-to-shell welds resulted in less than 100% of ASME code coverage being achieved. The configuration of the nozzle prevents examination from the nozzle side of the weld. 100% coverage was achieved by scanning over the weld and onto the nozzle side using a 45° transducer. Approximately 80% of the required lower one-third volumetric code coverage was achieved. A surface examination was performed on each of the welds and was found acceptable. Volumetric examination of this component is required in accordance with ASME Section XI Table IWB-2500-1, Examination Category C-B, Item Number C2.21. The lower one-third volume weld examination requirement is defined by Figure IWC-2500-4(a).

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 I  
CYCLE 3 ISI EXAMINATION PLAN**

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

<b>System</b>	<b>System Title Abbreviation</b>																				
	<table border="0"> <tr> <td>CSS</td> <td>Containment Spray System</td> <td>RCS</td> <td>Reactor Coolant System</td> </tr> <tr> <td>CVCS</td> <td>Chemical Volume and Control System</td> <td>RHRS</td> <td>Residual Heat Removal System</td> </tr> <tr> <td>FWS</td> <td>Feedwater System</td> <td>RV</td> <td>Reactor Vessel</td> </tr> <tr> <td>MSS</td> <td>Main Steam System</td> <td>SG</td> <td>Steam Generator</td> </tr> <tr> <td>RCP</td> <td>Reactor Coolant Pump</td> <td>SIS</td> <td>Safety Injection System</td> </tr> </table>	CSS	Containment Spray System	RCS	Reactor Coolant System	CVCS	Chemical Volume and Control System	RHRS	Residual Heat Removal System	FWS	Feedwater System	RV	Reactor Vessel	MSS	Main Steam System	SG	Steam Generator	RCP	Reactor Coolant Pump	SIS	Safety Injection System
CSS	Containment Spray System	RCS	Reactor Coolant System																		
CVCS	Chemical Volume and Control System	RHRS	Residual Heat Removal System																		
FWS	Feedwater System	RV	Reactor Vessel																		
MSS	Main Steam System	SG	Steam Generator																		
RCP	Reactor Coolant Pump	SIS	Safety Injection System																		
<b>Component Number</b>	<b>ISI Component Identifier</b>																				
<b>ISO Drawing</b>	<b>ISI Drawing Number</b>																				
<b>Category</b>	<b>Code Examination Category</b>																				
<b>Item Number</b>	<b>Code Item Number</b>																				
<b>Exam Requirement</b>	<b>Examination Requirement</b>																				
	89E-01 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) A02-01 Item examined per the requirements of the 1989 Edition of ASME Section XI as part of a First Additional Sample for NOI 03-02 AUG-01 Reactor Coolant Pump Flywheel Augmented Examinations per Regulatory Guide 1.14 (see Appendix II)																				
<b>Exam Scheduled</b>	<b>Required Examination Method</b>																				
<b>NDE Procedure</b>	<b>TVA NDE Procedure Number</b>																				
<b>Calibration Standard</b>	<b>Calibration Standard Identifier</b>																				
<b>Exam Date</b>	<b>Date Examination Performed</b>																				
<b>Exam Report</b>	<b>Examination Report Number</b>																				
<b>Exam Results</b>	<b>Results of the Examination</b>																				
	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																				
<b>Comments</b>	<b>Applicable Comments</b>																				

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Unit: 1  
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System	Component Number	ISO Drawing	Category	Item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
SG	SG-1-2-1	CHM-2660-C-01	B-B	B2.40	89E-01	UT	N-UT-19	SQ-49	20000913	R0614	P	
SG	SG-1-C-IR	CHM-2660-C-01	B-D	B3.140	89E-01	UT	N-UT-55	SQ-59	20000914	R0618	P	
SG	SG-1-H-IR	CHM-2660-C-01	B-D	B3.140	89E-01	UT	N-UT-55	SQ-59	20000914	R0617	P	
SG	RCF-D1-2-SE	CHM-2547-C-01	B-F	B5.70	89E-01	PT	N-PT-9		20000914	R0606	P	
SG	RCF-D1-2-SE	CHM-2547-C-01	B-F	B5.70	89E-01	UT	N-UT-33	WB-60	20000914	R0673	P	Limited Scan 65% Coverage, RFR 1-ISI-8
SG	RCF-F1-1-SE	CHM-2547-C-01	B-F	B5.70	89E-01	PT	N-PT-9		20000914	R0607	P	
SG	RCF-F1-1-SE	CHM-2547-C-01	B-F	B5.70	89E-01	UT	N-UT-33	WB-60	20000914	R0672	P	Limited Scan 61% Coverage, RFR 1-ISI-8
SG	MWCB-1-2-01-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-01-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-02-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-02-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-03-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-03-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-04-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-04-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-05-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-05-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-06-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-06-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-07-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-07-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-08-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-08-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-09-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-09-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-10-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-10-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-11-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-11-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-12-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-12-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-13-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-13-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-14-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-14-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-15-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-15-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-16-C	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
SG	MWCB-1-2-16-H	CHM-2660-C-02	B-G-2	B7.30	89E-01	VT-1	N-VT-1		20000921	R0701	P	
RCS	RC-05-BE	ISI-0365-C-01	B-G-2	B7.50	P89000	VT-1	N-VT-1		20000916	R0644	P	Valve S/N N56964-10-0095 In Position 68-564. 12 Bolts In Valve Flange at Bottom of Valve Body

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Unit: 1  
 Commercial Service Date: May 27, 1996

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System	Component Number	ISO Drawing	Category	Item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RCP	RCP3CSABLT-01	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20000918	R0648	P	
RCP	RCP3CSABLT-02	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20000918	R0648	P	
RCP	RCP3CSABLT-03	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20000918	R0648	P	
RCP	RCP3CSABLT-04	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20000918	R0648	P	
RCP	RCP3CSABLT-05	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20000918	R0648	P	
RCP	RCP3CSABLT-06	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20000918	R0648	P	
RCP	RCP3CSABLT-07	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20000918	R0648	P	
RCP	RCP3CSABLT-08	ISI-0447-C-01	B-G-2	B7.60	P89000	VT-1	N-VT-1		20000918	R0648	P	
RCS	68-563-BC	ISI-0365-C-01	B-G-2	B7.70	P89000	VT-1	N-VT-1		20000917	R0643	P	Valve Body Bolting, In Place, Valve Not Installed
SIS	63-632-BC	CHM-2758-C-08	B-G-2	B7.70	89E-01	VT-1	N-VT-1		20000920	R0636	P	Worked Under WO# 99-12571-000, Exam Performed on 16 Bolts Assembled and Dissassembled
SIS	SIF-B-T105-02	CHM-2758-C-08	B-J	B9.40	P89000	PT	N-PT-9		20000921	R0720	P	WO# 99-006268-000
SIS	SIF-B-T105-03	CHM-2758-C-08	B-J	B9.40	P89000	PT	N-PT-9		20000907	R0721	P	WO# 99-006268-000
SIS	SIF-B-T105-03	CHM-2758-C-08	B-J	B9.40	P89000	PT	N-PT-9		20000908	R0592	P	WO# 99-006268-000
RCS	68-563	ISI-0365-C-01	B-M-2	B12.50	P89000	VT-3	N-VT-1		19990914	R0535	P	Valve S/N N56964-10-0095
SIS	63-632	CHM-2758-C-08	B-M-2	B12.50	89E-01	VT-3	N-VT-1		20000920	R0679	P	Worked Under WO# 99-12571-000
RV	RVINT	ISI-0427-C-05	B-N-1	B13.10	89E-01	VT-3	N-VT-8		20000922	R0703	P	ROV Camera
CSS	CSHX-FL-SHL-1B	ISI-0371-C-01	C-A	C1.10	89E-01	UT	N-UT-18	SQ-104	20000915	R0620	P	Supplemental Exam Also Performed to N-UT-73, Same Report.
RHRS	RHRHX-2-1A	CHM-2662-C-01	C-A	C1.10	89E-01	UT	N-UT-18	WB-15	20000829	R0574	P	77.4% Bi-Directional Coverage, See Report. RFR 1-ISI-9
RHRS	RHRHX-1-1A	CHM-2662-C-01	C-A	C1.20	89E-01	UT	N-UT-18	WB-15	20000829	R0573	P	
SIS	BIT-2	ISI-0053-C-01	C-A	C1.20	89E-01	UT	N-UT-77	WB-44	20000902	R0690	P	60% Bi-Directional Coverage, RFR 1-ISI-11
SIS	BIT-3	ISI-0053-C-01	C-A	C1.20	89E-01	UT	N-UT-77	WB-44	20000908	R0691	P	63% Bi-Directional Coverage, RFR 1-ISI-11
SIS	BIT-1	ISI-0053-C-01	C-B	C2.21	89E-01	PT	N-PT-9		20000906	R0583	P	
SIS	BIT-1	ISI-0053-C-01	C-B	C2.21	89E-01	UT	N-UT-77	WB-44	20000904	R0689	P	80% Coverage, RFR 1-ISI-12
SIS	BIT-4	ISI-0053-C-01	C-B	C2.21	89E-01	PT	N-PT-9		20000907	R0578	P	
SIS	BIT-4	ISI-0053-C-01	C-B	C2.21	89E-01	UT	N-UT-77	WB-44	20000908	R0692	P	80% Coverage, RFR 1-ISI-12
CSS	CSHX-NZ-IN-REINF-1B	ISI-0371-C-01	C-B	C2.31	89E-01	PT	N-PT-9		20000915	R0623	P	PT Exam From ID During ECT
CSS	CSHX-NZ-OUT-REINF-1B	ISI-0371-C-01	C-B	C2.31	89E-01	PT	N-PT-9		20000915	R0624	P	PT Exam From ID During ECT
CSS	CSHX-NZ-IN-1B	ISI-0371-C-01	C-B	C2.32	89E-01	PT	N-PT-9		20000815	R0538	P	OD Surface Exam
CSS	CSHX-NZ-IN-1B	ISI-0371-C-01	C-B	C2.32	89E-01	PT	N-PT-9		20000915	R0621	P	ID Surface Exam, Supplements UT Report R0615
CSS	CSHX-NZ-IN-1B	ISI-0371-C-01	C-B	C2.32	89E-01	UT	N-UT-73	WB-67	20000915	R0615	P	UT From ID During ECT
CSS	CSHX-NZ-OUT-1B	ISI-0371-C-01	C-B	C2.32	89E-01	PT	N-PT-9		20000915	R0622	P	ID Surface Exam, Supplements UT Report R-0616
CSS	CSHX-NZ-OUT-1B	ISI-0371-C-01	C-B	C2.32	89E-01	PT	N-PT-9		20000815	R0539	P	OD Surface Exam
CSS	CSHX-NZ-OUT-1B	ISI-0371-C-01	C-B	C2.32	89E-01	UT	N-UT-73	WB-67	20000915	R0616	P	UT From ID During ECT
RHRS	RHRHX-5-1A-IA	CHM-2662-C-02	C-C	C3.10	89E-01	PT	N-PT-9		20000829	R0572	P	
RHRS	RHRHX-6-1A-IA	CHM-2662-C-02	C-C	C3.10	89E-01	PT	N-PT-9		20000829	R0571	P	
SIS	BIT-5-IA	ISI-0053-C-01	C-C	C3.10	89E-01	PT	N-PT-9		20000908	R0600	P	78% Coverage, RFR 1-ISI-10
SIS	BIT-6-IA	ISI-0053-C-01	C-C	C3.10	89E-01	PT	N-PT-9		20000908	R0601	P	78% Coverage, RFR 1-ISI-10
SIS	BIT-7-IA	ISI-0053-C-01	C-C	C3.10	89E-01	PT	N-PT-9		20000908	R0602	P	78% Coverage, RFR 1-ISI-10
SIS	BIT-8-IA	ISI-0053-C-01	C-C	C3.10	89E-01	PT	N-PT-9		20000908	R0603	P	78% Coverage, RFR 1-ISI-10

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System	Component Number	ISO Drawing	Category	Item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
CVCS	47A060-62-112-IA	ISI-0424-C-03	C-C	C3.20	89E-01	PT	N-PT-9		20000824	R0568	P	
MSS	1-01A-342-IA	ISI-0011-C-02	C-C	C3.20	89E-01	MT	N-MT-6		20000919	R0688	P	One Lug was PT Due to Being Inaccessible With a MT Yoke
MSS	1-01A-342-IA	ISI-0011-C-02	C-C	C3.20	89E-01	PT	N-PT-9		20000919	R0688	P	
SIS	1-63-102-IA	ISI-0440-C-08	C-C	C3.20	89E-01	PT	N-PT-9		20000913	R0611	P	
CVCS	CCPH-1A-A-IA	ISI-0118-C-01	C-C	C3.30	89E-01	PT	N-PT-9		20000823	R0569	P	84% Coverage, RFR 1-ISI-07
SIS	BITMWCB-01	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-02	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-03	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-04	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-05	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-06	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-07	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-08	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-09	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-10	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-11	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-12	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-13	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-14	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-15	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	BITMWCB-16	ISI-0053-C-01	C-D	C4.10	89E-01	UT	N-UT-67	SQ-103	20000906	R0586	P	
SIS	SIF-B-T104-11D	ISI-0375-C-09	C-F-1	C5.30	P89000	PT	N-PT-9		20000921	R0720	P	WO# 99-006268-000
SIS	SIF-B-T104-15	ISI-0375-C-09	C-F-1	C5.30	P89000	PT	N-PT-9		20000908	R0593	P	WO# 99-006268-000
SIS	SIF-B-T104-15	ISI-0375-C-09	C-F-1	C5.30	P89000	PT	N-PT-9		20000907	R0722	P	WO# 99-006268-000
FWS	FVVVS-3-670	ISI-0082-C-01	C-G	C6.20	89E-01	MT	N-MT-6		20000918	R0687	P	
CVCS	1-62A-035	ISI-0063-C-02	F-A	F1.10A	89E-01	VT-3	N-VT-1		20000918	R0655	P	
CVCS	1-62A-067	ISI-0063-C-02	F-A	F1.10A	A02-01	VT-3	N-VT-1		20000916	R0631	P	First Additional Sample for NOI 03-002 (R0604)
CVCS	1-62A-106	ISI-0063-C-04	F-A	F1.10A	89E-01	VT-3	N-VT-1		20000915	R0633	P	
RCS	1-68-029	ISI-0364-C-02	F-A	F1.10A	A02-01	VT-3	N-VT-1		20000916	R0637	P	First Additional Sample for NOI 03-002 (R0604)
RCS	1-68-040	ISI-0364-C-02	F-A	F1.10A	89E-01	VT-3	N-VT-1		20000915	R0640	P	
SIS	1-63-159	ISI-0021-C-13	F-A	F1.10A	89E-01	VT-3	N-VT-1		20000918	R0661	P	
SIS	1-63-328	ISI-0021-C-10	F-A	F1.10A	89E-01	VT-3	N-VT-1		20000918	R0665	P	
SIS	1-74-021	ISI-0021-C-10	F-A	F1.10A	89E-01	VT-3	N-VT-1		20000918	R0670	P	
SIS	47A435-08-037	ISI-0021-C-10	F-A	F1.10A	89E-01	VT-3	N-VT-1		20000919	R0685	P	
SIS	47A435-08-073	ISI-0021-C-09	F-A	F1.10A	P89000	VT-3	N-VT-1		20000922	R0697	P	
CVCS	1-62A-071	ISI-0063-C-03	F-A	F1.10B	89E-01	VT-3	N-VT-1		20000918	R0656	P	
RCS	1-68-037	ISI-0364-C-02	F-A	F1.10B	89E-01	VT-3	N-VT-1		20000915	R0639	P	
RX	RCL-CLR-2	ISI-0438-C-01	F-A	F1.10B	A02-01	VT-3	N-VT-1		20000917	R0649	P	First Additional Sample for NOI 03-002 (R0604)
SIS	1-63-067	ISI-0021-C-04	F-A	F1.10B	89E-01	VT-3	N-VT-1		20000911	R0589	P	
SIS	1-63-072	ISI-0021-C-04	F-A	F1.10B	89E-01	VT-3	N-VT-1		20000918	R0659	P	
SIS	1-63-205	ISI-0021-C-13	F-A	F1.10B	89E-01	VT-3	N-VT-1		20000918	R0663	P	

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 Number	ISO Drawing	Category	Item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
SIS	1-63-545	ISI-0021-C-13	F-A	F1.10B	89E-01	VT-3	N-VT-1		20000911	R0590	P	
SIS	1-74-018	ISI-0021-C-10	F-A	F1.10B	89E-01	VT-3	N-VT-1		20000918	R0669	P	
RCS	1-68-379	ISI-0364-C-03	F-A	F1.10C	89E-01	VT-3	N-VT-1		20000915	R0642	P	Range 1 7/16" to 1 7/8"
RHRS	1-74-022	ISI-0020-C-01	F-A	F1.10C	89E-01	VT-3	N-VT-1		20000918	R0671	P	Range 9/16" to 3/4"
SIS	1-63-211	ISI-0021-C-13	F-A	F1.10C	89E-01	VT-3	N-VT-1		20000918	R0664	P	Range 5/16" to 7/16"
CVCS	1-62A-095	ISI-0063-C-03	F-A	F1.10D	89E-01	VT-3	N-VT-1		20000911	R0587	P	
CVCS	1-62A-102	ISI-0063-C-04	F-A	F1.10D	89E-01	VT-3	N-VT-1		20000915	R0632	P	
RCS	1-68-096	ISI-0364-C-01	F-A	F1.10D	89E-01	VT-3	N-VT-1		20000916	R0641	P	
RHRS	1-74-007	ISI-0020-C-01	F-A	F1.10D	89E-01	VT-3	N-VT-1		20000918	R0668	P	
SIS	1-63-065	ISI-0021-C-04	F-A	F1.10D	89E-01	VT-3	N-VT-1		20000911	R0588	P	
SIS	1-63-164	ISI-0021-C-13	F-A	F1.10D	89E-01	VT-3	N-VT-1		20000918	R0662	P	
SIS	47A435-08-040	ISI-0021-C-10	F-A	F1.10D	89E-01	VT-3	N-VT-1		20000919	R0674	P	
SIS	47A435-08-088	ISI-0021-C-04	F-A	F1.10D	89E-01	VT-3	N-VT-1		20000919	R0686	P	
CSS	72-1CS-R064	ISI-0423-C-05	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000816	R0546	P	
CSS	72-1CS-R088	ISI-0423-C-05	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000816	R0544	P	
CSS	72-1CS-R095	ISI-0423-C-05	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000816	R0543	P	
CVCS	62-1CVC-R002	ISI-0424-C-01	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000822	R0562	P	
CVCS	62-1CVC-R014	ISI-0424-C-02	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000818	R0552	P	
CVCS	62-1CVC-R024	ISI-0424-C-02	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000818	R0553	P	
CVCS	62-1CVC-R068	ISI-0424-C-23	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000823	R0560	P	
CVCS	62-1CVC-R150	ISI-0424-C-06	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000823	R0566	P	
FWS	1-03A-406	ISI-0062-C-06	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000917	R0627	P	
FWS	1-03A-452	ISI-0062-C-07	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000918	R0652	P	
FWS	1-03A-460	ISI-0062-C-07	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000918	R0654	P	
MSS	1-01A-318	ISI-0011-C-01	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000916	R0626	P	
RHRS	63-1SIS-R152	ISI-0020-C-03	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000817	R0548	P	
RHRS	63-1SIS-R169	ISI-0020-C-03	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000817	R0550	P	
RHRS	63-1SIS-R187	ISI-0107-C-02	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000821	R0555	P	
RHRS	63-1SIS-R191	ISI-0107-C-02	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000821	R0554	P	
RHRS	63-1SIS-R196	ISI-0107-C-02	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000821	R0556	P	
SIS	1-63-046	ISI-0021-C-03	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000915	R0635	P	
SIS	1-63-054	ISI-0021-C-03	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000917	R0658	P	
SIS	1-63-131	ISI-0440-C-10	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000918	R0660	P	
SIS	1-63-306	ISI-0440-C-15	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000918	R0666	P	
SIS	1-63-399	ISI-0440-C-01	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000912	R0597	P	
SIS	1-63-403	ISI-0440-C-01	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000912	R0599	P	
SIS	63-1SIS-R130	ISI-0021-C-01	F-A	F1.20A	89E-01	VT-3	N-VT-1		20000814	R0540	P	
CSS	555-18-18-2	ISI-0423-C-08	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000911	R0591	P	
CVCS	47A060-62-112	ISI-0424-C-03	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000818	R0575	P	
CVCS	62-1CVC-R013	ISI-0424-C-01	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000818	R0551	P	
CVCS	62-1CVC-R059	ISI-0424-C-22	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000907	R0579	P	

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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 Standard	Exam Date	Exam Report	Exam Results	Comments
CVCS	62-1CVC-R066	ISI-0424-C-23	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000906	R0584	P	
CVCS	62-1CVC-R165	ISI-0424-C-07	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000822	R0561	P	
CVCS	62-1CVC-R213	ISI-0424-C-15	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000907	R0580	P	
FWS	1-03A-417	ISI-0062-C-06	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000917	R0628	P	
RHRS	74-1RHR-R030	ISI-0020-C-06	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000907	R0582	P	
SIS	1-63-025	ISI-0021-C-06	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000913	R0609	P	
SIS	1-63-053	ISI-0021-C-03	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000917	R0657	P	
SIS	1-63-102	ISI-0440-C-08	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000913	R0610	P	
SIS	1-63-308	ISI-0440-C-15	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000918	R0667	P	
SIS	1-63-393	ISI-0440-C-01	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000926	R0709	P	
SIS	1-63-406	ISI-0440-C-11	F-A	F1.20B	89E-01	VT-3	N-VT-1		20000912	R0598	P	
CSS	72-1CS-V008	ISI-0423-C-06	F-A	F1.20C	89E-01	VT-3	N-VT-1		20000816	R0547	E	Range 5/8" to 1 1/16" NOI 03-001. Eval. OK by Eng.
CVCS	62-1CVC-V184	ISI-0424-C-12	F-A	F1.20C	89E-01	VT-3	N-VT-1		20000824	R0567	P	Range 1 5/8" to 2 3/16"
MSS	1-01A-342	ISI-0011-C-02	F-A	F1.20C	89E-01	VT-3	N-VT-1		20000918	R0650	P	Range 3 5/16" to 4 7/16"
RHRS	63-1SIS-V145	ISI-0020-C-03	F-A	F1.20C	89E-01	VT-3	N-VT-1		20000817	R0557	P	Range 1 7/8" to 2 3/8"
SIS	1-63-026	ISI-0021-C-06	F-A	F1.20C	89E-01	VT-3	N-VT-1		20000919	R0702	P	Acceptance Range 2 7/8 TO 3 15/16 or 1428 lbs to 1578 lbs
CSS	72-1CS-R068	ISI-0423-C-05	F-A	F1.20D	89E-01	VT-3	N-VT-1		20000816	R0545	P	
CVCS	62-1CVC-R052	ISI-0424-C-25	F-A	F1.20D	89E-01	VT-3	N-VT-1		20000823	R0565	P	
FWS	1-03A-241	ISI-0062-C-02	F-A	F1.20D	89E-01	VT-3	N-VT-1		20000918	R0651	P	
FWS	1-03A-455	ISI-0062-C-07	F-A	F1.20D	89E-01	VT-3	N-VT-1		20000918	R0653	P	
FWS	47A401-08-001	ISI-0062-C-06	F-A	F1.20D	89E-01	VT-3	N-VT-1		20000917	R0630	P	
MSS	1-01A-317	ISI-0011-C-01	F-A	F1.20D	89E-01	VT-3	N-VT-1		20000916	R0625	P	
RHRS	63-1SIS-R148	ISI-0020-C-03	F-A	F1.20D	89E-01	VT-3	N-VT-1		20000817	R0549	P	
SIS	1-63-023	ISI-0021-C-06	F-A	F1.20D	89E-01	VT-3	N-VT-1		20000913	R0608	P	
SIS	1-63-042	ISI-0021-C-03	F-A	F1.20D	89E-01	VT-3	N-VT-1		20000915	R0634	P	
CVCS	SWHXH-1	ISI-0484-C-02	F-A	F1.40B	89E-01	VT-3	N-VT-1		20000823	R0564	P	
RCP	RCPH-2	ISI-0446-C-01	F-A	F1.40B	89E-01	VT-3	N-VT-1		20000912	R0604	F	Exam Generated Additional Sample Exreq A02-01
RCP	RCPH-2	ISI-0446-C-01	F-A	F1.40B	89E-01	VT-3	N-VT-1		20000926	R0710	P	Clears NOI-03-002
RCP	RCPH-3	ISI-0446-C-01	F-A	F1.40B	A02-01	VT-3	N-VT-1		20000915	R0645	P	First Additional Sample for NOI 03-002 (R0604)
RHRS	RHRHXH-1-1A	CHM-2662-C-02	F-A	F1.40B	89E-01	VT-3	N-VT-1		20000828	R0570	P	
SG	SGH-1-1	CHM-2660-C-03	F-A	F1.40B	P89000	VT-3	N-VT-1		20000920	R0704	P	Exam Performed on 1 Bolt In Place
SIS	BITH-1	ISI-0053-C-01	F-A	F1.40B	89E-01	VT-3	N-VT-1		20000905	R0576	P	
SIS	SIPH-1A-A	ISI-0120-C-01	F-A	F1.40B	89E-01	VT-3	N-VT-1		20000814	R0541	P	
CSS	47A437-02-031	ISI-0423-C-06	F-A	F1.40C	89E-01	VT-3	N-VT-1		20000816	R0542	P	Range 5/8" to 1 3/8"
CVCS	1-62A-311	ISI-0026-C-01	F-A	F1.40D	89E-01	VT-3	N-VT-1		20000919	R0676	P	
CVCS	1-62A-317	ISI-0026-C-01	F-A	F1.40D	89E-01	VT-3	N-VT-1		20000919	R0675	P	
CVCS	62-1CVC-R276	ISI-0424-C-11	F-A	F1.40D	89E-01	VT-3	N-VT-1		20000907	R0581	P	
FWS	1-03A-501	ISI-0062-C-08	F-A	F1.40D	89E-01	VT-3	N-VT-1		20000916	R0629	P	
RCS	1-68-032	ISI-0364-C-02	F-A	F1.40D	89E-01	VT-3	N-VT-1		20000915	R0638	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

## APPENDIX II AUGMENTED EXAMINATION PLAN

The following examination plan summarizes the augmented examination of the reactor coolant pump flywheels as required by Regulatory Guide, 1.14. This augmented examination is described in Appendix L, Section 1 of the ISI Program, 1-TRI-0-10. See Appendix I for description of the headings.

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 Number	ISO Drawing	Item Category	Item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RCP	1S-82P191-BOREKEY	ISI-0447-C-02	RG1.14	N/A	AUG-01	UT	N-UT-21	SQ-68	20000915	R0612	P	
RCP	2S-82P191-BOREKEY	ISI-0447-C-02	RG1.14	N/A	AUG-01	UT	N-UT-21	SQ-68	20000915	R0612	P	
RCP	3S-82P192-BOREKEY	ISI-0447-C-02	RG1.14	N/A	AUG-01	UT	N-UT-21	SQ-68	20000915	R0612	P	
RCP	4S-82P191-BOREKEY	ISI-0447-C-02	RG1.14	N/A	AUG-01	UT	N-UT-21	SQ-68	20000915	R0612	P	

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 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 III

**SUMMARY OF WATTS BAR UNIT 1 CYCLE 3  
 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	4654	4666	4672	4666	18658
Partial Bobbin Exam		1			
U-Bend Plus Point	137	137	137	137	548
Top of Tubesheet Plus Point	4654	4667	4672	4666	18659
Dented TSP Plus Point	8	32	11	39	90
Freespan Ding Plus Point	9	12	13	17	51
Diagnostic Plus Point	21	25	34	15	95
Total Exams Completed	9483	9540	9539	9540	38102
INDICATIONS (Tubes)	S/G 1	S/G 2	S/G 3	S/G 4	Totals
AVB Wear	3	8	3	14	28
Wear	0	0	0	1	1
Loose Parts Damage	0	1	0	0	1
ODSCC HTS Circ	0	1	0	2	3
ODSCC TSP Axial	0	1	0	0	1
PWSCC HTS Axial	1	6	13	1	21
Volumetric Indication	0	1	0	0	1
PLUGGING STATUS	S/G 1	S/G 2	S/G 3	S/G 4	Totals
Previously Plugged Tubes	20	7	2	8	37
Plugged Cycle 3					
Damage Mechanism					
PWSCC HTS Axial	1	6	11	1	19
ODSCC HTS Circ	0	1	0	2	3
ODSCC TSP Axial	0	1	0	0	1
Loose Parts Damage	0	1	0	0	1
Volumetric Indication	0	1	0	0	1
Obstructed Tube	0	1	0	0	1
Noisy Data	0	2	1	0	3
TOTAL TUBES PLUGGED	21	20	14	11	66

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

<b>Classification of Inspection Results</b>	<b>SG1</b>	<b>SG2</b>	<b>SG3</b>	<b>SG4</b>
Full-Length Bobbin Coil	C-1	C-2	C-1	C-1
U-Bend Plus Point	C-1	C-1	C-1	C-1
Top of Tubesheet Plus Point	C-2	C-2	C-2	C-2
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

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 PRESSURE TEST SUMMARY

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

Note that the Sampling and Water Quality system pressure test 1-SI-43-701-A is reported in this Summary Report but is credited for first period credit. The test was performed after the cycle 2 refueling outage but before the end of the first period.

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

WBN Unit 1 Cycle 3 RFO Pressure Test Report  
 [First Inspection Interval, second period]

System	Procedure No.	Test Type	Exam	Performance Date	Test Results
Main steam from each steam generator through the termination of ASME Code Class piping at the flued head anchor at the exit to the valve vaults.	1-TRI-1-901	System Inservice	VT-2	10/4/2000	Satisfactory
Steam generator blowdown piping and components from each steam generator through the outboard containment isolation valves.	1-TRI-1-902	System Inservice	VT-2	10/4/2000	Satisfactory
Motor driven auxiliary feedwater pump 1B-B piping and components from the suction check valve through Steam Generator level control valves LCV-3-148 and LCV-3-171, including piping to and from the oil cooler and the recirculation line through the auxiliary building wall.	1-TRI-3-901-B	N-498-1 Alternative	VT-2	8/4/2000	Satisfactory
Turbine driven auxiliary feedwater pump 1A-S piping and components from the suction check valve through Steam Generator level control valves LCV-3-172, LCV-3-173, LCV-3-174, and LCV-3-175, including the piping and components from the turbine trip and throttle valve through the steam exhaust through the Auxiliary Building roof.	1-TRI-3-902	System Functional	VT-2	10/5/2000	Satisfactory
Motor driven auxiliary feedwater pump 1B-B piping and components from Steam Generator level control valve LCV-3-148 through discharge check valves CKV-3-871 and CKV-3-921 and from Steam Generator level control valve LCV-3-171 through discharge check valve CKV-3-833	1-TRI-3-906-B	N-498-1 Alternative	VT-2	9/26/2000	Satisfactory
Turbine driven auxiliary feedwater pump 1A-S piping and components from Steam Generator level control valve LCV-3-172 through CKV-3-871, LCV-3-173 through CKV-3-872, LCV-3-174 through CKV-3-873, and LCV-3-175 through CKV-3-874	1-TRI-3-907	System Functional	VT-2	10/5/2000	Satisfactory
High pressure fire protection system piping and components supplying the reactor coolant pump stand pipes from the outboard containment isolation valve through the inboard containment isolation valve.	1-TRI-26-901	N-498 Alternative	VT-2	9/30/2000	Satisfactory
Train A and B chilled water piping supply and return piping and components from the outboard containment isolation valves through the inboard containment isolation valves.	1-TRI-31-901	N-498 Alternative	VT-2	8/11/2000	Satisfactory
Train A Essential Raw Cooling Water piping and components from the shield building wall, through the lower compartment coolers and the control rod drive mechanism coolers back to the shield building wall and the upper compartment cooler supply and return lines from the shield building wall through the inboard containment isolation valves.	1-TRI-67-901-A	System Inservice	VT-2	9/11/2000	Satisfactory
Sampling and Water Quality System Code Class 2 piping and components associated with containment penetrations X-86C and X-28. Note this test is for first period code credit.	1-SI-43-701-A	N-522 Alternative	App. J	5/12/1999	Satisfactory
Train B Essential Raw Cooling Water piping and components from the shield building wall, through the lower compartment coolers and the control rod drive mechanism coolers back to the shield building wall and the upper compartment cooler supply and return lines from the shield building wall through the inboard containment isolation valves.	1-TRI-67-901-B	System Inservice	VT-2	9/11/2000	Satisfactory
Chemical and Volume Control System piping and components inside containment, including seal injection, #1 seal leakoff, #1 seal bypass, charging and auxiliary charging, letdown and excess letdown, and pressurizer auxiliary spray.	1-TRI-62-901	N-498 Alternative	VT-2	10/4/2000	Satisfactory

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

WBN Unit 1 Cycle 3 RFO Pressure Test Report  
 [First Inspection Interval, second period]

System	Procedure No.	Test Type	Exam	Performance Date	Test Results
Reactor Coolant System ASME Code Class 1 piping and components	1-TRI-68-6	System Leakage	VT-2	10/4/2000	Satisfactory
Bolted joints in Reactor Coolant System [ASME Code Class 1] piping and components	1-TRI-68-7	N-533 Alt. for Bolted Joints	VT-2	9/11/2000 through 9/17/2000	Satisfactory
Component cooling system piping and components inside containment from the supply line outboard containment isolation valve through the excess letdown heat exchanger and reactor coolant pump motor coolers to the return line outboard containment isolation valve	1-TRI-70-901-A	System Inservice	VT-2	9/10/2000 and 10/4/2000	Satisfactory
Train A Residual heat removal system piping and components from the loop 4 letdown through the pump and heat exchangers, including the suction line from the RWST back to the interface with the safety injection system, and the discharge lines to the containment penetrations.	1-TRI-74-901-A	System Functional	VT-2	9/15/2000	Satisfactory
Primary Makeup Water System piping and components from the outboard containment isolation valve through the inboard containment isolation valve.	1-TRI-81-901	N-498-1 Alternative	VT-2	9/8/2000	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

APPENDIX V  
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 April 17, 1999 to completion of the third cycle refueling outage, October 7, 2000.

The following table lists by tracking number the NIS-2s included in this report.

TRACKING NUMBER	CODE CLASS	WORK ORDER NUMBER	BRIEF DESCRIPTION
RR-03-001	2	99-006225-000	Replace valve plug
RR-03-002	2	99-005406-000	Repair valve, replace disc
RR-03-004	2	99-009192-000	Replace mechanical seal
RR-03-008	2	99-012713-000	Replace heater on boric acid tank
RR-03-009	1	99-008590-001	Replace cartridge seal
RR-03-019	2	00-000518-004	Replace RFV
RR-03-020	2	00-000518-005	Replace RFV
RR-03-022	2	99-013189-000	FAC DCN - Replace pipe and fittings
RR-03-023	2	99-013189-001	FAC DCN - Replace pipe and fittings
RR-03-024	2	99-013189-003	FAC DCN - Replace pipe and fittings
RR-03-025	2	99-013189-004	FAC DCN - Replace pipe and fittings
RR-03-026	2	99-013189-006	FAC DCN - Replace pipe and fittings
RR-03-027	2	99-013189-007	FAC DCN - Replace pipe and fittings
RR-03-028	2	99-013189-009	FAC DCN - Replace pipe and fittings
RR-03-029	2	99-013189-010	FAC DCN - Replace pipe and fittings
RR-03-031	1	00-000518-014	Replace RFV
RR-03-032	2	99-009210-000	Replace valves (1-DRV-003-500 & -501) and piping
RR-03-033	2	99-015461-000	Replace valves (1-DRV-003-502 & -503) and piping
RR-03-040	1	99-006268-000	Replace valve and piping
RR-03-041	2	00-000759-001	Replace snubber
RR-03-043	2	00-000739-001	Remove and replace bonnet seal weld
RR-03-047	2	00-004879-000	Remove supports 47A406-01-001 and 005 and ppg due to PD
RR-03-050	2	00-011131-000	Replaced mechanical seal

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-03-052	2	00-000759-004	Replace snubber
RR-03-053	2	99-011905-002	Replace 4 SG#3 instrument manway studs
RR-03-054	2	99-015625-000	Replace 1 stud and 2 nuts
RR-03-055	2	00-012397-000	Replace 1 upper SG support bolt
RR-03-059	2	00-009539-001	Replace snubber
RR-03-060	2	00-000759-009	Replace snubber
RR-03-062	2	99-002979-000	Replace stem/plug assembly

**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 6/8/99  
Name  
 400 W. Summit Hill Drive, Knoxville, TN  
Address

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

3. Work Performed by Watts Bar Nuclear Plant Type Code Symbol Stamp \_\_\_\_\_  
Name  
P.O. Box 2000 Spring City, TN. 37381  
Address

Authorization No \_\_\_\_\_  
 Expiration Date \_\_\_\_\_

4. Identification of system MAIN STEAM SYSTEM COI

5. (a) Applicable Construction Code ASME SECTION III CL2 1974 Edition, W/74 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)
STEAM RELIEF VALVE	COPOS VULCAN	7520-95337-1-4	780	1-PCV-001-0030-T	1977		YES
VALVE PLUG	COPOS VULCAN	762-5	780	1-PCV-1-30-T	1977	Replaced	YES
VALVE PLUG	COPOS-VULCAN	9421-96856-1-2	N/A	PN 194534	1995	REPLACEMENT	YES

7. Description of Work Replace Valve Plug

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure N/A 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.

FORM NIS-2 (Back)

9. Remarks

TRACKING NO. RR-03-01

Additional Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement Repair 9/10/00 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 Jim E. Casey ISI SPECIALIST Date 10/11 10/2000  
Owner or Owner's Designee, Title 10/10/00

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 9/17/00 to 10/11/00 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 I N A C  
National Board, State, Province, and Endorsements

Date 10/11 10 00  
AME  
10/11/00

**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  
Name  
400 W. Summit Hill Drive, Knoxville, TN  
Address

Date 6/18/99

Sheet \_\_\_\_\_ of \_\_\_\_\_

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

Unit Unit 1

W# 99-005406-000

3. Work Performed by WATTS BAR NUCLEAR PLANT  
Name  
P.O. Box 2000 Spring City, Tenn. 37381  
Address

Repair Organization P.O. No., Job No., etc.  
Type Code Symbol Stamp \_\_\_\_\_

Authorization No \_\_\_\_\_

Expiration Date \_\_\_\_\_

4. Identification of system 062 CVCS

5. (a) Applicable Construction Code ASME Code Sec. MC2 19 74 Edition, Winter 1974 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)
Globe VALVE TVD-D-4909-(2)	KEROTEST	KP 23-16	N/A	1-ESV-062-0549-S	1975	Repaired	YES
VALVE DISC	BW/IP INTERN. INC	310182 * SN	N/A	N/A	1994	REPLACEMENT	YES
* Is 1 of the 14 S/Ns supplied under contract 106523. See Attached. gc 10/29/00							

7. Description of Work Repaired valve - REPLACED DISC

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure NOP 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.

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be Attached  
Tracking NO. - RR-03-002 2001/1/97

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair 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 Modis F. Eng. Supervisor Date 10/24/00 2000  
Owner or Owner's Designee, Title TS  
OR 10/24/00

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 F I CO of HARTFORD CT. have inspected the components described in this Owner's Report during the period 7/6/99 to 10/24/00 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 I N A C  
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/24 10 2000  
BME  
10/24/00

**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  
Name  
400 W. Summit Hill Drive, Knoxville, TN

Date 8-13-99

Sheet \_\_\_\_\_ of \_\_\_\_\_

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

Unit Unit 1

Work Order 99-009192-002  
Repair Organization P. O. No., Job No., etc. 10/1/00  
Type Code Symbol Stamp

3. Work Performed by MECHANICAL MAINTENANCE  
Address  
Name  
TVA WBNP P.O. Box 2000, Spring City TN 37381

Authorization No \_\_\_\_\_

Expiration Date \_\_\_\_\_

4. Identification of system 062 - CVCS

5. (a) Applicable Construction Code ASME SECTION III CLASS 2 1971 Edition, Winter 7 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)
Charging Pump i-PMP-0620104-B Mech. Seals	Pacific Pump DIV	3/A 48591	N/A	N/A	74	Replaced	Yes
INBOARD SEAL		B 48532		63897-26-AB			
OUTBOARD SEAL		A 48532		74785-2			
U-2 CHARGING PUMP PACIFIC PUMP DIV		3/A 48572	50	N/A	74	REPLACEMENT	YES
INBOARD SEAL -		B 48591		59525-7B-AA			
OUTBOARD SEAL -		A 48604		63697-22-AB			

7. Description of Work Replaced Mechanical Seals

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 3½ 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-02-102 JG 8/19/99

RR-03-004 JG 8/19/99

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 Jim E. Conroy ISE SPECIALIST Date 10/1/2000
Owner or Owner's Designee, Title AC 10/1/00

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 HARTFORD, CT. have inspected the components described in this Owner's Report during the period 8-19-00 to 10-01-00 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.

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

Date Oct. 1 192000

99-012713 000

PAGE 34 OF 91

~~98-012705-028~~ <sup>M+</sup>  
2-4-00

FORNENT 2 OWNER REPORT FOR REPAIRS OR REPLACEMENTS

1. Owner TENNESSEE VALLEY AUTHORITY Date 1/30/00  
Name  
 400 W. Summit Hill Drive, Knoxville, TN  
Address

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

3. Work Performed by Elect. Maintenance Type Code Symbol Stamp NA  
Name  
Same as above  
Address

4. Identification of system 062-CVCS

5. (a) Applicable Construction Code Sect. III 1974 Edition, 574 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)
HEATER	WESTINGHOUSE	RP-100S	NA	Mod. No. 700-99AE2321-3	1999	Replacement	Yes

7. Description of Work Replacement of HEATER

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure NOP 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.

**FORMS-2100**

9. Remarks  TRACKING # RR-03-008  
Applicable Manufacturer's Code 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 NA

Certificate of Authorization No. NONE

Signed [Signature] Date 2/7/00  
Owner or Owner's Designee, Title 20 00  
18 00  
PH 2-8-00

**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 CONN. have inspected the components described in this Owner's Report during the period 10/13/99 to 2/8/00 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 I N A C  
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/8 00  
PH 2-8-00

**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 11/9/99  
Name  
 400 W. Summit Hill Drive, Knoxville, TN  
 Sheet \_\_\_\_\_ of \_\_\_\_\_

2. Plant Watts Bar Nuclear Plant Unit Unit 1  
Address  
P. O. Box 2000, Spring City, TN, 37381  
Name  
MMG W.O. 99-008590-001  
Address Repair Organization P.O. No., Job No. etc.  
 3. Work Performed by WBNP MMG Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
PO BOX 2000 SPRING CITY, TN. 37381 Expiration Date N/A  
Address

4. Identification of system SYSTEM 068 / REACTOR COOLANT

5. (a) Applicable Construction Code ASME SECT III 1971 Edition, 1972 Addenda, N/A Code Case  
1972  
SUMMER  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 28C 1/2/99

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)
CARTRIDGE SEAL AND HOUSING	WESTINGHOUSE	2298	N/A	P/N - S05SD24-60	19	REPLACE	NO
/							

7. Description of Work INSTALL REBUILT CARTRIDGE SEAL ASSEMBLY IN 1-PMP-068-0050 (REP #3. SEAL TO BE INSTALLED WAS REBUILT UNDER W.O. 99-008590-000)

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure NO P 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.

FORM NIS-2 (Back)

9. Remarks RR-03-009 LRC  
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 Jim E. Casey ISE PROGRAMS Date 10/26/00  
Owner or Owner's Designee, Title LRC 10/26/00

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 11/16/99 to 10/26/00 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 INAC  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 10/26 10 2000  
BME  
10/26/00

**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  
Name  
 400 W. Summit Hill Drive, Knoxville, TN

Date 5-14-00

Sheet \_\_\_\_\_ of \_\_\_\_\_

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

Unit Unit 1

Work Order 00-000518-004

3. Work Performed by Mechanical Maintenance  
Address  
Name  
 Watts Bar Nuclear Plt  
 P.O. Box 2000 Spring City, Tn 37381

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 ASME Sec III 1971 Edition, 5'72 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-RFV-063-0626-A	Crosby Valve	N56902-00-0003				REPAIRED	YES
1-RFV-063-0626-A	Crosby Valve	N56902-00-0009	187	N/A	77	REPLACED	YES

7. Description of Work Remove/Replace Relief Valve

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 606 psig Test Temp Ambient °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-03-019 288 5/5/00

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 Russ E. Casey ISI SPECIALIST Date 10/5 20 00  
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 HARTFORD CT. have inspected the components described in this Owner's Report during the period 5/15/00 to 10/6/00 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 INAC  
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/6 20 00

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  
Name  
400 W. Summit Hill Drive, Knoxville, TN

Date 5-14-00  
Sheet \_\_\_\_\_ of \_\_\_\_\_

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

Unit Unit 1  
Work Order  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Mechanical Maintenance  
Address  
Watts Bar Nuclear Plt  
P. O. Box 2000 Spring City, Tn 37381  
Name

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 ASME Sec III 1971 Edition, 5'72 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)
<u>1-RFV-063-0627-A</u>	<u>Crosby Valve</u>	<u>NS6902-00-0010</u>	<u>188</u>	<u>N/A</u>	<u>75</u>	<u>replaced</u>	<u>YES</u>
<u>1-RFV-063-0627-B</u>	<u>Crosby Valve</u>	<u>NS6902-00-0004</u>		<u>N/A</u>		<u>replaced</u>	<u>YES</u>

7. Description of Work Remove / Replace Valve

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure 606 psig Test Temp Ambient °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-03-020 RRCs/15/00

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 NA

Certificate of Authorization No. NA

Signed James E. Casper ISE SPECIALIST Date 10/5 20 00  
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 IFCO of Hartford Ct. have inspected the components described in this Owner's Report during the period 5/15/00 to 10/5/00 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 INAC  
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/5 20 00

**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 9-30-00  
Name  
400 W. Summit Hill Drive, Knoxville, TN Sheet        of         
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1  
Name  
P. O. Box 2000, Spring City, TN, 37381 WORK ORDER# 99-013189-000  
Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of system STEAM GENERATOR BLOWDOWN, SYSTEM# 015

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)
1-PIPE-015-B	N/A	N/A	N/A	N/A	2000	Replacement	No

7. Description of Work Replaced SGBD piping in Loop #1

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  PEX WO  
 Other  Pressure 1185 psi Test Temp 600 °F 00-000728000

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

CODE CASE N416-1

TRACKING # RR-03-022 LLC 5/23/00  
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 \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_

N/A

Signed Bob Collins CONST ENGR Date Sept 29 20 00  
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 HARTFORD CT. have inspected the components described in this Owner's Report during the period 5/23/00 to 9/30/00 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 INAC  
National Board, State, Province, and Endorsements

Date 9/30 20 00

**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  
Name  
400 W. Summit Hill Drive, Knoxville, TN  
Address

Date 9-30-2000  
 Sheet 1 of 2

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

Unit Unit 1  
 WORK ORDER 99-013189-001

3. Work Performed by TVA MODIFICATIONS  
Name  
WATTS BAR NUCLEAR PLANT  
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 STEAM GENERATOR BLOWDOWN SYSTEM 015

5. (a) Applicable Construction Code ASME SECT. III 1971 Edition, SUMMER Addenda, N-416-1 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 280 11/15/00

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-015-B (4" PIPE)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (4" TEE)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (4"X2"REDUCER)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (2"X1"REDUCER)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (2" PIPE)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO

7. Description of Work REPLACED PIPING AND FITTINGS ON LOOP #1 SGBG PIPING.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  ISLT WILL BE PERFORMED IN  
 Other  Pressure 1185 psi Test Temp 600 °F  
 WO 00-000726-000

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.

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FORM NIS-2 (Back)

9. Remarks

CODE CASE N416-1

TRACKING # PR-03-023 ALL 5/23/00  
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 W. J. Page CONSULT. ENGR. Date 9-30 20 00  
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 E&I CO. of HARTFORD, CT. have inspected the components described in this Owner's Report during the period 5-23-00 to \_\_\_\_\_ 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 SEPT. 30, 2000

**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 9-30-00  
Name  
400 W. Summit Hill Drive, Knoxville, TN  
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 Type Code Symbol Stamp N/A  
Name  
WATTS BAR NUCLEAR PLANT  
Address

4. Identification of system STEAM GENERATOR BLOWDOWN, SYSTEM# 015  
Repair Organization P.O. No., Job No., etc.  
 Authorization No N/A  
 Expiration Date N/A

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)
1-PIPE-015-B	N/A	N/A	N/A	N/A	2000	Replacement	N/A

7. Description of Work Replaced Loop #2 SGBD piping

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 1185 psi Test Temp 600 °F PER WO 00-00726-000

**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

CODE CASE N416-1

TRACKING # RR-03-024 lpc 5/23/00

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 \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_

N/A

Signed Bob Collin CONST ENGR Date SEPT 30 20 00  
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 IFFI co. of HARTFORD CT. have inspected the components described in this Owner's Report during the period 5/24/00 to 9/30/00 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. Eamigh  
Inspector's Signature

Commissions TN2534 INAC  
National Board, State, Province, and Endorsements

Date 9/30 20 00

**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 9-30-2000  
400 W. Summit Hill Drive, Knoxville, TN Sheet 1 of 2  
Name  
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1  
P. O. Box 2000, Spring City, TN, 37381 WORK ORDER 99-013189-004  
Name Repair Organization P.O. No., Job No., etc.

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

4. Identification of system STEAM GENERATOR BLOWDOWN SYSTEM 015

5. (a) Applicable Construction Code ASME 1971 Edition, SUMMER Addenda, N 416-1 Code Case  
SECT. III 73  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 ASME 11/13/00

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-015-B (4" PIPE)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (4"-45 DEG ELL)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (4" TEE)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (4"X2"REDUCER)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (2"X1"REDUCER)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (2" PIPE)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
SUPPORT 47A400-6-115 PSA 1/2" SNUBBER	PACIFIC SCIENTIFIC	S/N 20833	N/A	N/A	N/A	REPLACEMENT	NO

7. Description of Work REPLACED PIPING AND FITTINGS ON LOOP #2 SGBG PIPING.  
REPLACED SNUBBER ON SUPPORT 47A400-6-115.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  ISLT WILL BE  
 Other  Pressure 1185 psi Test Temp 600 °F PERFORMED IN  
 WO 00-000726-000

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

CODE CASE N416-1

TRACKING # RR-03-025 2/25/00  
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 Neil Rogers CONSTR. ENGR. Date 9.30. 20 00  
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 E & L CO of HARTFORD, CT. have inspected the components described in this Owner's Report during the period 5-24-2000 to 9-30-00 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. Mitcalfe  
Inspector's Signature

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

Date SEPT. 30, 2000

**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 9-30-00  
Name  
 400 W. Summit Hill Drive, Knoxville, TN  
 Sheet      of     

2. Plant Watts Bar Nuclear Plant Unit Unit 1  
Address  
 P. O. Box 2000, Spring City, TN, 37381  
Name  
 WORK ORDER# 99-013189-006

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

4. Identification of system STEAM GENERATOR BLOWDOWN, SYSTEM# 015

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)
1-PIPE-015-B	N/A	N/A	N/A	N/A	2000	Replacement	No

7. Description of Work Replaced piping in LOOP#3 SGBD.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  PER WO  
 Other  Pressure 1185 psi Test Temp 600 °F 00-00716-000

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 CODE CASE N416-1 TRACKING \* RR-03-026 RCC 5/23/00  
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.      A

Signed Bob Collin CONST. ENGR Date 30 SEPT 20 00  
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 Hartford CT. have inspected the components described in this Owner's Report during the period 5/24/00 to 9/30/00 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 INAC  
National Board, State, Province, and Endorsements

Date 9/30 20 00

**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 9-29-2000  
Name  
400 W. Summit Hill Drive, Knoxville, TN Sheet \_\_\_\_\_ of \_\_\_\_\_  
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1  
Name  
P. O. Box 2000, Spring City, TN, 37381 WORK ORDER 99-013189-007  
Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of system STEAM GENERATOR BLOWDOWN SYSTEM 015

5. (a) Applicable Construction Code ASME III 1971 Edition, SUMMER Addenda, N-416-1 Code Case  
73  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 280 of 12/00

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-015-B (4" PIPE)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (4" TEE)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (4"X2"REDUCER)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (2"X1"REDUCER)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (2" PIPE)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
SUPPORT 47A400-6-195 4" U-BOLT	BERGEN PATTERSON	N/A	N/A	N/A	N/A	REPLACEMENT	NO
SUPPORT 47A400-6-193 PSA 1/4 SNUBBER	BASIC-PSA INC.	S/N 1094	N/A	N/A	N/A	REPLACEMENT	NO

7. Description of Work REPLACED PIPING AND FITTINGS ON LOOP #3 SGBG PIPING.  
REPLACED SNUBBER ON SUPPORT 47A400-6-193.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  ISLT WILL BE PERFORMED IN  
 Other  Pressure 1185 psi Test Temp 600 °F W.O.00.000726-000

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

CODE CASE N416-1

TRACKING # RR-03-0027 ALL 5/23/00

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.

Signed

Neil Rogers

CONSTR. ENGR.

Date

29 SEPT.

20 00

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 TENN and employed by THE HSBI & I CO - of HARTFORD, CT. have inspected the components described in this Owner's Report during the period 5-25-00 to 9-30-00 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  
Inspector's Signature

Commissions

TN-2633

National Board, State, Province, and Endorsements

Date

SEPT. 30, 2000

**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 9/30/00  
Name  
400 W. Summit Hill Drive, Knoxville, TN  
Address

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

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

4. Identification of system STEAM GENERATOR BLOWDOWN, SYSTEM# 015  
Address

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)
1-PIPE-015-B	N/A	N/A	N/A	N/A	N/A	REPLACEMENT	No

7. Description of Work Replaced piping on Loop # 4 SGBD.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 1185 psi Test Temp 600 °F in WO# 00-000726-00

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

CODE CASE N416-1

Applicable Manufacturer's Data Reports to be Attached

TRACKING # RR-03-028 LCC 5/23/00

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.

A

Signed

Bob Collins Const ENGR  
Owner or Owner's Designee, Title

Date

29 SEPT 20 00

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 L & L Co of HARTFORD, CT. have inspected the components described in this Owner's Report during the period 5-25-00 to \_\_\_\_\_ 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. S. Metcalf  
Inspector's Signature

Commissions

TN-2633

National Board, State, Province, and Endorsements

Date

SEPT 30, 20 00

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

1. Owner <u>TENNESSEE VALLEY AUTHORITY</u> <div style="text-align: center; font-size: small;">Name</div> 400 W. Summit Hill Drive, Knoxville, TN	Date <u>9-30-2000</u> Sheet <u>1</u> of <u>2</u>
2. Plant <u>Watts Bar Nuclear Plant</u> <div style="text-align: center; font-size: small;">Address</div> P. O. Box 2000, Spring City, TN, 37381 <div style="text-align: center; font-size: small;">Name</div>	Unit <u>Unit 1</u>  WORK ORDER 99-013189-010 <div style="text-align: center; font-size: small;">Repair Organization P.O. No., Job No., etc.</div> Type Code Symbol Stamp <u>N/A</u>
3. Work Performed by <u>TVA MODIFICATIONS</u> <div style="text-align: center; font-size: small;">Address</div> WATTS BAR NUCLEAR PLANT <div style="text-align: center; font-size: small;">Name</div>	Authorization No <u>N/A</u>  Expiration Date <u>N/A</u>

4. Identification of system STEAM GENERATOR BLOWDOWN SYSTEM 015

5. (a) Applicable Construction Code ASME SECT. III 1971 Edition, SUMMER Addenda, N-416-1 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 See 11/2/00

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-015-B (4" PIPE)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (4" TEE)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (4"X2"REDUCER)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (2"X1"REDUCER)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO
1-PIPE-015-B (2" PIPE)	CONSOLIDATED POWER SUPPLY	N/A	N/A	N/A	N/A	REPLACEMENT	NO

7. Description of Work REPLACED PIPING AND FITTINGS ON LOOP #4 SGBG PIPING.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  ISLT WILL BE PERFORM IN N.O.OO -000726-000  
 Other  Pressure 1185 psi Test Temp 600 °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

CODE CASE N416-1

Applicable Manufacturer's Data Reports to be Attached

TRACKING # RR-03-029 270 9/30/00

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 W. Rogers CONSTR. ENGR. Date 9-30 20 00  
 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 HARTFORD CT. have inspected the components described in this Owner's Report during the period 5/25/00 to 9/30/00 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 INAC  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 9/30 20 00

**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 10/12/00  
Name  
400 W. Summit Hill Drive, Knoxville, TN Sheet \_\_\_\_\_ of \_\_\_\_\_

2. Plant Watts Bar Nuclear Plant Unit Unit 1  
Address  
P. O. Box 2000, Spring City, TN, 37381 Name  
 Work Order 00-000518-014  
Repair Organization P.O. No., Job No., etc.  
 Type Code Symbol Stamp N/A

3. Work Performed by Mechanical Maintenance Authorization No N/A  
Address  
Watts Bar Nuclear Plt Name  
P.O. Box 2000 Spring City, Tn 37381 Address  
 Expiration Date N/A

4. Identification of system SYSTEM 68 - REACTOR COOLANT

5. (a) Applicable Construction Code ASME SEC. III<sup>19</sup> 71 Edition, W-72 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-RFV-068-0563	CROSBY VALVE	NS6964-10-0095 <del>NS 200-1210</del>	N/A	N/A	1979	REPLACEMENT	YES
1-RFV-068-0563	CROSBY VALVE	NS6964-10-0033	906	N/A	1983	REPLACED	YES

7. Description of Work REMOVE / REPLACE PRESSURIZER SAFETY VALVE

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure \*  
 Other  Pressure \_\_\_\_\_ psi Test Temp \_\_\_\_\_ °F  
 \* TO BE CONDUCTED BY I-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 # RR-03-031 200 5/31/00

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 Dyrest. Williams MAINT. SPEC. Date 10/12/ 20 00  
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 HARTFORD CT. have inspected the components described in this Owner's Report during the period 5/31/00 to 10/12/00 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 I N A C  
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/12 20 00

**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 5-24-00  
Name  
400 W. Summit Hill Drive, Knoxville, TN Sheet \_\_\_\_\_ of \_\_\_\_\_  
Address  
 2. Plant Watts Bar Nuclear Plant Unit Unit 1  
Name  
P. O. Box 2000, Spring City, TN, 37381 Work Order 99-09210-000  
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  
Watts Bar Nuclear Plt 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 1974 Edition, W74 Addenda, \_\_\_\_\_ 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-DRV-3-500	YARWAY	8766	N/A	N/A		Replaced	YES
1-DRV-3-500	YARWAY	6835 RB <del>6922</del> 7-25-00	N/A	N/A	1977	Replacement	YES
1-DRV-3-501	YARWAY	8822	N/A	N/A		Replaced	YES
1-DRV-3-501	YARWAY	6930	N/A	N/A	1977	Replacement	YES

7. Description of Work Replace Valves & PIPING

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure NOP 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.



FORM NIS-2 (Back)

9. Remarks

TRACING # RR-03-032 REC 5/1/00

Applicable Manufacturer's Data Reports to be Attached

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.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed Sam E. Casper ISI SPECIALIST Date 10/12 20 00  
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 Hartford CT. have inspected the components described in this Owner's Report during the period 5/31/00 to 10/12/00 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 INAG  
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/12 20 00

**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  
Name  
400 W. Summit Hill Drive, Knoxville, TN

Date 10/16/00  
Sheet \_\_\_\_\_ of \_\_\_\_\_

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

Unit Unit 1  
Work Order 99-15461-000

3. Work Performed by Mechanical Maintenance  
Address  
Name  
Watts Bar Nuclear Plt  
P.O. Box 2000 Spring City, Tn 37381

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 003, AUX/MAIN FEEDWATER

5. (a) Applicable Construction Code SECTION III 1974 Edition, W74 Addenda, \_\_\_\_\_ 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-DRV-3-503	YARWAY	8850	NONE	5/8" O3 Valve	M	Replaced	Y
1-DRV-3-503	YARWAY	6910	NONE	5/8" O3 Valve	K176	Replacement	Y
1-DRV-3-502	YARWAY	6853	NONE	5/8" O3 Valve	M	Replaced	Y
1-DRV-3-502	YARWAY	8764	NONE	5/8" O3 Valve	1977 K176 1976	Replacement	Y

7. Description of Work REPLACE VALVES & PIPING

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure NO P 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.



FORM NIS-2 (Back)

9. Remarks

TRACKING # RA-03-033 210 5/31/00

Applicable Manufacturer's Data Reports to be Attached

COOL 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.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Signed Sam E. Conroy ISI SPECIALIST Date 10/12 2000  
 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 F I CO. of Hartford CT. have inspected the components described in this Owner's Report during the period 5/31/00 to 10/16/00 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 INAC  
 National Board, State, Province, and Endorsements

Date 10/16 2000

**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 8/3/00  
Name  
400 W. Summit Hill Drive, Knoxville, TN Sheet        of         
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1  
Name  
P. O. Box 2000, Spring City, TN, 37381 W.O. 99-006268-000  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by WBN MECH. MAINT. 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 SAFETY INJECTION SYSTEM, SYS. 063  
 5. (a) Applicable Construction Code ASME SECTION II 1974 Edition, WINTER 1974 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-CKV-063-05535</u>	<u>KEROTEST</u>	<u>ND1-2</u>	<u>N/A</u>		<u>1976</u>	<u>REPLACE</u>	
<u>1-063B-T104-11C</u>	<u>Q4 9/7/00</u> <u>WELDED N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>WELD</u>	<u>N/A</u>	<u>REPLACE</u>	<u>NO</u>
<u>1-063B-T104-11D</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>WELD</u>	<u>N/A</u>	<u>REPLACE</u>	<u>NO</u>
<u>1-063B-T104-15</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>WELD</u>	<u>N/A</u>	<u>REPLACE</u>	<u>NO</u>
<u>1-063B-T105-2</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>WELD</u>	<u>N/A</u>	<u>REPLACE</u>	<u>NO</u>
<u>1-063B-T105-3</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>WELD</u>	<u>N/A</u>	<u>REPLACE</u>	<u>NO</u>
<u>1-063B-PIPE 2"</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>REPLACE</u>	<u>NO</u>
<u>47A435-B-73</u>	<u>TVA</u>	<u>N/A</u>	<u>N/A</u>	<u>WELD #</u> <u>1-19066268000</u>	<u>N/A</u>	<u>REPLACE</u>	<u>NO</u>

7. Description of Work REPLACE 1-CKV-063-0553 AND 2" PIPE  
REMOVED & REINSTALLED HANGER AT WELD #3

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 2485 psi Test Temp 650 °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-03-040 2/11/00

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 James E. Casey ISE SPECIALIST Date 10/11 20 00  
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 HARTFORD CT. have inspected the components described in this

Owner's Report during the period 8/7/00 to 10/11/00 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 INAC  
National Board, State, Province, and Endorsements

Date 10/11 20 00

**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  
Name  
400 W. Summit Hill Drive, Knoxville, TN  
Address

Date: 8/15/00  
Sheet \_\_\_\_\_ of \_\_\_\_\_

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

Unit: Unit 1  
Repair Organization P.O. No., Job No., etc.: W.O. 00-000759-001  
Type Code Symbol Stamp: N/A

3. Work Performed by: WBN MECH. MAINT  
Name  
P.O. BOX 2000, SPRING CITY, TN 37381  
Address

Authorization No: N/A  
Expiration Date: N/A

4. Identification of system: 072 CONTAINMENT SPRAY

5. (a) Applicable Construction Code: ASME SECTION III 19 80 Edition, SUMMER 82 Addenda, 1644-5-7, N249 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-SNURB-072-CS1255</u>	<u>PSA</u>	<u>20831</u>	<u>N/A</u>	<u>NONE</u>	<u>1975</u>	<u>REPLACE</u>	<u>NO</u>

7. Description of Work: REPLACE SNURBER

8. Tests Conducted: Hydrostatic  Pneumatic  ~~N/A~~ 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. 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. PR-03-041  
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 John E. Cooney ISI SPECIALIST Date 9/25 20 00  
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 FI CO. of HARTFORD CT. have inspected the components described in this Owner's Report during the period 8/16/00 to 9/25/00 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 INAC  
Inspector's Signature National Board, State, Province, and Endorsements

Date 9/25 20 00

**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 8/24/00  
Name  
400 W. Summit Hill Drive, Knoxville, TN Sheet      of       
Address
2. Plant Watts Bar Nuclear Plant Unit Unit 1  
Name  
P. O. Box 2000, Spring City, TN, 37381 WO 00-000739-001  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by WATTS BAR NUCLEAR PLANT Type Code Symbol Stamp N/A  
Name  
P.O. BOX 2000 SPRING CITY, TENN 37381 Authorization No N/A  
Address Expiration Date N/A
4. Identification of system SAFETY INJECTION SYSTEM, 063
5. (a) Applicable Construction Code ASME 19 74 Edition, Summer Addenda, NONE Code Case  
Sect III 1975  
 (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>W240</u> <u>1-063A-T02-41</u>	<u>ROCKWELL</u> <u>INT.</u>	<u>GD783</u>	<u>595</u>	<u>1-CKV-063-</u> <u>0725</u>	<u>1987</u>	<u>REPLACE</u>	<u>Y</u>

7. Description of Work REPLACE CHECK VALVE POPPET SEAL WELD

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 100 psi Test Temp 400 °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-03-043 22 Oct 160

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 Tom C. Casper ISI SPECIALIST Date 10/5 20 00  
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.B. L. & I. Co. of HARTFORD, CT. have inspected the components described in this Owner's Report during the period 8-24-00 to 10-5-00 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. Mitcalk  
Inspector's Signature

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

Date Oct. 5, 2000

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

1. Owner TENNESSEE VALLEY AUTHORITY Date \_\_\_\_\_  
 Name \_\_\_\_\_  
400 W. Summit Hill Drive, Knoxville, TN Sheet 1 of \_\_\_\_\_  
 Address \_\_\_\_\_  
 2. Plant Watts Bar Nuclear Plant Unit Unit 1  
 Name \_\_\_\_\_  
P. O. Box 2000, Spring City, TN, 37381 WORK ORDER 00-004879-000  
 Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc.  
 3. Work Performed by TVA MODIFICATIONS Type Code Symbol Stamp N/A  
 Name \_\_\_\_\_ Authorization No N/A  
WATTS BAR NUCLEAR PLANT Expiration Date N/A  
 Address \_\_\_\_\_

4. Identification of system SYSTEM 062 CHEMICAL VOLUME CONTROL SYSTEM  
 5. (a) Applicable Construction Code ASME III 19 71 Edition, S73 Addenda, \_\_\_\_\_ 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 SUPPORT	TVA	N/A	N/A	47A406-1-1		REPLACE-MENT	NO
PIPE SUPPORT	TVA	N/A	N/A	47A406-1-5		REPLACE-MENT	NO
1-PIPE-062B		N/A	N/A	3", 1-1/2", <del>2" &amp; 4"</del> same 9/6/2000		REPLACE-MENT	NO

7. Description of Work ISOLATE AND ABANDON WBN-1-PMP-062-0101 PER DCN D50506-A

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  SEE WO#00-004879-001  
 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 CODE CASE N416-1  
Applicable Manufacturer's Data Reports to be Attached  
TRACKING # RR-03-047 REC 9/7/00

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 Bob Collier Construction Engr. Date 9/22 20 00  
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 NEW JERSEY and employed by HARTFORD YARD BLDG. & I CO. of HARTFORD, CT. have inspected the components described in this

Owner's Report during the period 9-7-00 to 9-21-00 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. Mitealle Commissions TN-2633  
Inspector's Signature National Board, State, Province, and Endorsements

Date SEPT. 21 20 00

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

1. Owner <u>TENNESSEE VALLEY AUTHORITY</u> <div style="text-align: center; font-size: small;">Name</div> 400 W. Summit Hill Drive, Knoxville, TN <div style="text-align: center; font-size: small;">Address</div>	Date <u>09/12/00</u> Sheet _____ of _____ Unit <u>Unit 1</u> WO 00-011131-00 Repair Organization P.O. No., Job No., etc. Type Code Symbol Stamp <u>N/A</u> Authorization No <u>N/A</u> Expiration Date <u>N/A</u>
2. Plant <u>Watts Bar Nuclear Plant</u> <div style="text-align: center; font-size: small;">Name</div> P. O. Box 2000, Spring City, TN, 37381 <div style="text-align: center; font-size: small;">Address</div>	3. Work Performed by <u>Mechanical Maintenance</u> <div style="text-align: center; font-size: small;">Name</div> P. O. Box 2000, Spring City, TN, 37381 <div style="text-align: center; font-size: small;">Address</div>
4. Identification of system <u>62 - CVCS</u>	

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, W71 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-PMP-62-108-A	Pacific Pump	48590	13	n/a	74	n/a	Yes
inboard mechanical seal	Pacific Pump	B47532 IT G004	n/a	HT# 63893-7-AA	74	replaced	Yes
inboard mechanical seal	Pacific Pump	D14617 377	n/a	HT# 63893-26-AB	74	replacement	Yes

7. Description of Work Replaced seal with rebuilt replacement seal originally installed on pump S/N 48591

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp N/A °F  
NOT REC 10/6/00

**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-03-050  
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 James E. Casady ISI SPECIALIST Date 10/6 20 00  
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 HARTFORD CT have inspected the components described in this Owner's Report during the period 9/12/00 to 10/6/00 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 I N A C  
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/6 20 00

**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 9-15-00  
Name  
400 W. Summit Hill Drive, Knoxville, TN Sheet      of       
Address

2. Plant Watts Bar Nuclear Plant Unit Unit 1  
Name  
P. O. Box 2000, Spring City, TN, 37381 WO 00-000759-004  
Address Repair Organization P.O. No., Job No., etc.  
Type Code Symbol Stamp N/A

3. Work Performed by WBN. Mech. Maint. Authorization No N/A  
Name  
P.O. Box 2000, Spring City, TN 37381 Expiration Date N/A  
Address

4. Identification of system Sys 015 Steam Generator Baudouin

5. (a) Applicable Construction Code ASME Section III 1980 Edition, W 1981 Addenda, N/A Code Case ASME 7th Edition  
 (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-015-400683S (OLD)	PSA	4359	N/A	N/A	N/A	Replaced	N
1-SNUB-015-400683S (REPLACEMENT)	PSA	1030	N/A	N/A	N/A	Replacement	N

7. Description of Work Replace Snubber

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  N/A 9-15-00  
 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

TRACKING # RR-03-052

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

Juan F. Campy ISI SPECIALIST  
Owner or Owner's Designee, Title

Date

9/26 20 00

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 9/15/00 to 9/26/00 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  
Inspector's Signature

Commissions

TN 2534

INAC

National Board, State, Province, and Endorsements

Date

9/26 20 00

**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 9/15/00  
Name  
400 W. Summit Hill Drive, Knoxville, TN Sheet      of     

2. Plant Watts Bar Nuclear Plant Unit Unit 1  
Address  
P. O. Box 2000, Spring City, TN, 37381 WO 99-011905-002  
Name Repair Organization P.O. No., Job No., etc.

3. Work Performed by WBN MECHANICAL MAINT. Type Code Symbol Stamp N/A  
Address Name  
PO Box 2000 Spring City TN 37381 Authorization No N/A  
Address Expiration Date N/A

4. Identification of system 068, Reactor Coolant System

5. (a) Applicable Construction Code III 19 71 Edition, S 71 Addenda, NB 4643 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)
#3 S/G Instr Man. Studs	Westinghouse	1593	W10288	NA	1975	Replaced	Yes

7. Description of Work INSTR MANWAY STUD REPLACEMENT 4 STUDS

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure NOP psi Test Temp NOT °F  
1-TAI-68-6 PER WO 99-011904-000

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 # RR-03-053

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 NONE

Certificate of Authorization No. NA

Signed Kevin E. Casey ISI SPECIALIST Date 9/23 20 00  
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 HARTFORD CT. have inspected the components described in this Owner's Report during the period 9/15/00 to 9/23/00 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 I N A C  
National Board, State, Province, and Endorsements

Date 9/23 20 00

**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  
Name  
400 W. Summit Hill Drive, Knoxville, TN  
Address

Date 9/15/00

Sheet \_\_\_\_\_ of \_\_\_\_\_

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

Unit Unit 1

3. Work Performed by WBN MECH. MAINT.  
Name  
P.O. Box 2000, Spring City, TN 37381  
Address

W.O. 99-015625-000  
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 CONTAINMENT SPRAY, 072

5. (a) Applicable Construction Code ASME SECTION III 19 74 Edition, Summer 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-ATX-072</u> <u>00016-B</u>	<u>JOSEPH DATE</u>	<u>2266-1B</u>	<u>918</u>	<u>HEAT EXCHANGER</u>	<u>1976</u> <u>2/11/10</u>	<u>REPLACED</u>	<u>YES</u>

7. Description of Work REPLACE 1 STUD AND 2 NUTS

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure NO P 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.

FORM NIS-2 (Back)

9. Remarks TRACKING NO: RR-03-054  
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 Sam E. Casey ISI SPECIALIST Date 9/29 20 00  
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 HARTFORD CT. have inspected the components described in this Owner's Report during the period 9/16/00 to 9/29/00 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 I N A C  
Inspector's Signature National Board, State, Province, and Endorsements  
 Date 9/29 20 00

**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  
Name  
400 W. Summit Hill Drive, Knoxville, TN

Date 9/21/2000

Sheet 1 of 2

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

Unit Unit 1

WORK ORDER# 00-012397-000

3. Work Performed by TVA MODIFICATIONS  
Address  
Name  
WATTS BAR NUCLEAR PLANT

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

Authorization No N/A

Expiration Date N/A

Address  
4. Identification of system 068 REACTOR COOLANT / 001 MAIN STEAM

5. (a) Applicable Construction Code AISC 19 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)
STEAM GENERATOR SUPPORT BOLT	NOVA	N/A	N/A	N/A	N/A	*	N/A
* REPLACEMENT							

7. Description of Work REPLACED BROKEN UPPER STEAM GENERATOR SUPPORT SPLICE PLATE BOLT

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure N/A psi Test Temp N/A °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 TRACKING# RA-03-055 REC 9/18/00  
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 Mike Dodd, CONSTRUCTION ENGR. Date 9/21 20 00  
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 HARTFORD CT. have inspected the components described in this Owner's Report during the period 9/18/00 to 9/21/00 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 I N A C  
National Board, State, Province, and Endorsements

Date 9/21 20 00

**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  
Name  
400 W. Summit Hill Drive, Knoxville, TN  
Address

Date 09/ / 08

Sheet \_\_\_\_\_ of \_\_\_\_\_

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

Unit Unit 1

W# 00-009539-001

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

3. Work Performed by WATTS BAR NUCLEAR PLANT  
Name  
P.O. Box 3000, Spring City, TN, 37381  
Address

Authorization No N/A

Expiration Date N/A

4. Identification of system 015 STEAM GENERATOR Blowdown

5. (a) Applicable Construction Code ASME Section III 1980 Edition, ASME 7th Edition 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)
Snubber (New)	PSA	<del>20655</del> <u>20655</u>	N/A	1-SNUB-015-4006220	N/A	Replacement	NO
Snubber (failed)		20656	N/A	1-SNUB-015-4006220	N/A	Replaced	NO

7. Description of Work REPLACE SNUBBER

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.

FORM NIS-2 (Back)

9. Remarks TRACKING # PD-03-0592PC 9/25/00  
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 [Signature] ISI SPECIALIST Date 9/28 20 00  
Owner or Owner's Designee, Title IPC 9/24/00

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 9/25/00 to 9/23/00 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] BoNE 9/23/00 Commissions TN 2534 I N A C  
Inspector's Signature National Board, State, Province, and Endorsements

Date 9/28 20 00

**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  
Name  
 400 W. Summit Hill Drive, Knoxville, TN

Date 01/20/00

Sheet \_\_\_\_\_ of \_\_\_\_\_

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

Unit Unit 1

WO# 00-000759-009

3. Work Performed by WATTS BAR NUCLEAR PLANT  
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 015 STEAM GENERATOR Blowdown

5. (a) Applicable Construction Code ASME Section III 1980 Edition, ASME 7th Edition 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)
SNUBBER (NEW)	PSA	36473	N/A	1-SNUB-015-4806274	N/A	ASME 9-28-00 Replaced	NO
SNUBBER (FAILED)	PSA	38788	N/A	1-SNUB-015-4806274	N/A	Replaced	NO

7. Description of Work Replace snubber including forward bracket and bolting.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  N  
 Other  Pressure \_\_\_\_\_ psi Test Temp \_\_\_\_\_ °F R

NOTE: Supplemental sheets (with photos, 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 TRACKING # RR-03-060  
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 Tom F. Casim IBI SPECIALIST Date 9/28 20 00  
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 HARTFORD CT. have inspected the components described in this Owner's Report during the period 9/26/00 to 9/28/00 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 INAC  
Inspector's Signature National Board, State, Province, and Endorsements

**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  
Name  
400 W. Summit Hill Drive, Knoxville, TN  
Address

Date May 19, 2000  
 Sheet \_\_\_\_\_ of \_\_\_\_\_

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

Unit Unit 1  
 Work Order 99-02979-00

3. Work Performed by Mechanical Maintenance  
Name  
Watts Bar Nuclear Plt  
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 062, CVCS

5. (a) Applicable Construction Code SECTION III 1971 Edition, S 72 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-FCV-062-0093	FISHER	5905860	2541	N/A	77	Replaced	YES KJLPC
VALVE PLUG	CARTECH	66498-1	N/A	N/A	77	REPLACED	YES
VALVE PLUG	CARTECH	70591-3-1	N/A	N/A	79	REPLACED	YES

7. Description of Work REPLACED STEM / PLUG ASSY - REPLACEMENT PLUG FROM FISHER  
VALVE S/N 5909862

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure NOP 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 # RR-03-062 10/6/00

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 Ron P. Casny ISI SPECIALIST Date 10/6 20 00  
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 Hartford CT. have inspected the components described in this Owner's Report during the period 5/24/00 to 10/6/00 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 I N A C  
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/6 20 00

ENCLOSURE 2

WATTS BAR NUCLEAR PLANT UNIT 1  
ASME SECTION XI INSERVICE INSPECTION SUMMARY REPORT  
THIRD REFUELING CYCLE  
COMMITMENT LIST

ENCLOSURE 2

WATTS BAR NUCLEAR PLANT UNIT 1  
ASME SECTION XI INSERVICE INSPECTION SUMMARY REPORT  
THIRD REFUELING CYCLE  
COMMITMENT LIST

Six relief requests are required for ISI components examined during this inspection. The requests for approval will be submitted under separate letter.