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

ASME SECTION XI
INSERVICE INSPECTION
SUMMARY REPORT

**SECOND REFUELING CYCLE** 

9907090113 990628 PDR ADDCK 05000390 Q PDR

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: National Board Number for Unit: N/A

#### CONCURRENCE AND APPROVAL SHEET

Name	Title	Signature	Date
Prepared by:	ISI	/	
K. E. Casey	Program Engineer	Jun Classy	6/1/19
Concurred by:		Λ Λ <i>(</i>	
, T. L. Hale	ISO ISI/NDE Coordinator	- Samo Hale	6/7/99
J. W. Whitaker	ISO NDE Level III	SEE ATTACHED	
G. L. Johnson	System Pressure Test Engineer	Lan John	61899
E. D. Camp	Steam Generator Specialist	Emmitt Comp	75-29
R. M. Emrath	Corporate Codes & ISI Manager	SEE ATTACHED	
L. L. McCormick	Component Engineering Manager	A O Tro	erm 6/15/9
Approved by:			-
D. F. Helms	System Engineering Manager	- Offelus	6/15/99

TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street

Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

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

Certificate of Authorization:

National Board Number for Unit: N/A

### CONCURRENCE AND APPROVAL SHEET

Name	Title	Signature	Date
Prepared by:			
K. E. Casey	ISI Program Engineer		
Concurred by:			
T. L. Hale	ISO ISI/NDE Coordinator		**
J. W. Whitaker	ISO NDE Level III	Jafter AM	the
G. L. Johnson	System Pressure Test Engineer		
E. D. Camp	Steam Generator Specialist		
R. M. Emrath	Corporate Codes & ISI Manager		
L. L. McCormick	Component Engineering Manager		
Approved by:			
D. F. Helms	System Engineering Manager	<u> </u>	

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: National Board Number for Unit: N/A

N/A

#### CONCURRENCE AND APPROVAL SHEET

Name	Title	Signature	Date
Prepared by:	101		
K. E. Casey	ISI Program Engineer		
Concurred by:			
T. L. Hale	ISO ISI/NDE Coordinator		
J. W. Whitaker	ISO NDE Level III		
G. L. Johnson	System Pressure Test Engineer		
E. D. Camp	Steam Generator Specialist		
R. M. Emrath	Corporate Codes & ISI Manager	Tichoud M Em	rath od!
L. L. McCormick	Component Engineering Manager		
Approved by:			
D. F. Helms	System Engineering Manager		

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

#### **TABLE OF CONTENTS**

Concurrence Sheet	2
Table of Contents	3
Cover Sheet	4
Form NIS-1	5
Form NIS-1 for ISI Examinations	7
Introduction and Summary of the Inspection	11
Summary of Requests for Relief	13
Appendices	

Appendix I, ISI Examination Plan

Appendix II, Steam Generator Tube Eddy Current Summary

Appendix III, Pressure Test Reports Summary

Appendix IV, Report for Repairs and Replacements, Form NIS-2

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

#### **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 Watts Bar Nuclear Plant

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: June 7, 1999

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: National Board Number for Unit: N/A

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 37401-2801 (Name and Address of Owner) Watts Bar Nuclear Plant, P.O. Box 2000, Spring City, TN 37381-2000 2. Plant (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 Manufacturer Component or Manufacturer or Installer State or National Appurtenance or Installer Serial No. Province No. Board No. Tennessee Valley Authority See Appendix I, N/A N/A N/A Examination Plan, for List of Components

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.

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

FORM NIS-1 (Back)
8. Examination Dates: October 1, 1997 to April 16, 1999
9. Inspection Period Identification: First
10. Inspection Interval Identification: First
11. Applicable Edition of Section XI: 1989 Addenda N/A
12. Date/Revision of Inspection Plan: November 17, 1998/1-TRI-0-10, Revision 3
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Appendix I
14. Abstract of Results of Examinations and Tests. See Appendix I
15. Abstract of Corrective Measures. See Summary of Notification of Indications (NOIs)
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 19 99 Signed Tennessee Valley Authority
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 IFICO. of HATTFOY CT have inspected the components described in this Owners' Data Report during the period 2/27/99 to History 6/15/99, 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.  **R 8333**  **BR333**  **Commissions**  **TN 2534**  **TN ""  National Board, State, Province and Endorsements
Date6//5/19_99

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

NIS-1 FOR STEAM GENERATOR TUBE EDDY CURRENT EXAMINATIONS

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

As required by the Provisions of the Asiae Code Rules												
1. Owner Tennessee Valley Authority, 1101 Market St. Chattanooga, TN 37401-2801 (Name and Address of Owner)												
(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 Insp	pected											
		Manufacturer										
Component or	Manufacturer or Installer	or Installer	State or Province No.	National Board No.								
Appurtenance See Appendix II,	Tennessee Valley Authority	Serial No.	N/A	Board No. N/A								
Steam Generator												
Tube Examination	1											
Summary	Westinghouse Electric Corp 1591 N/A W1023											
1-SGEN-068-SG1												
1-SGEN-068-SG2												
1-SGEN-068-SG3	Westinghouse Electric Corp 1593 N/A W10											
1-SGEN-068-SG4	Westinghouse Electric Corp	1594	N/A	W10289								

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.

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

FORM NIS-1 (Back)
8. Examination Dates: March 10, 1999 to March 29, 1999
9. Inspection Period Identification: First
10. Inspection Interval Identification: First
11. Applicable Edition of Section XI: 1989 Addenda N/A
12. Date/Revision of Inspection Plan: March 8, 1999/1-SI-68-907, Revision 4
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Appendix II
14. Abstract of Results of Examinations and Tests. See Appendix II
15. Abstract of Corrective Measures. See Appendix II
We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.  Certificate of Authorization No. (if applicable) N/A Expiration Date N/A
Date June 7 19 99 Signed Tennessee Valley Authority By Emmitt Comp
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 If I Co. of HATTford CT. have inspected the components described in this Owners' Data Report during the period 2/27/9 to 6/15/9, 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. Lamy Commissions IN 2534 IN IN 1810 IN
Date

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: National Board Number for Unit: N/A

N/A

#### NIS-1 FOR PRESSURE TESTS

1. Owner		rket St. Chattanoo										
	(Name a	Tennessee Valley Authority, 1101 Market St. Chattanooga, TN 37401-2801										
	(Name and Address of Owner)											
2. Plant	Vatts Bar Nuclear Plant, P.O. Box 2000, Spring City, TN 37381-2000											
	(Name	(Name and Address of Plant)										
	One (1) 4. Owner Certificate of Authorization (if required) Not Required											
<ol> <li>Commercial Sε</li> </ol>	ervice Date May 27, 1996 6. N	lational Board Nur	nber for Unit N	one Assigned								
7. Components In												
The state of the s		Manufacturer										
Component or	Manufacturer	or Installer	State or	National								
Appurtenance See Appendix III,	or Installer Tennessee Valley Authority	Serial No.	Province No. Board N									
Pressure Test Summary												
			***************************************									
	·											
Mada and a second		<u> </u>		-								
		·		<del> </del>								

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

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

FORM NIS-1 (Back)
8. Examination Dates: October 21, 1997 to April 16, 1999
9. Inspection Period Identification: First
10. Inspection Interval Identification: First
11. Applicable Edition of Section XI: 1989 Addenda N/A
12. Date/Revision of Inspection Plan: September 29, 1997/TI-100.009, Revision 0
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
Certificate of Authorization No. (if applicable) N/A Expiration Date N/A  Date Super 8 19 99 Signed Tennessee Valley Authority 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 IfI Co. of HATT Ford CT. have inspected the components described in this Owners' Data Report during the period 2/27/99 to 6/15/99, 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.  Brue M. Eamagh Commissions To 2534 T "" "" " " " " " " " " " " " " " " "
Inspector's Signature National Board, State, Province and Endorsements
Date

Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

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

#### 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 second cycle of operation of TVA's Watts Bar Nuclear Plant's Unit 1. The cycle 2 refueling outage is the second of two outages in the First Period of the First Inspection Interval. The First Period ended May 26, 1999. Examinations performed this cycle completes the ISI examinations required for the First Period. System pressure tests required for the First Period that will be completed after the cycle 2 refueling outage will be reported in the cycle 3 summary report.

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

#### Summary

ISI examinations were performed in accordance with Technical Requirement Instruction 1-TRI-0-10, "ASME Section XI ISI/NDE Program." Table 1 provides an overview of the ISI examinations that were performed during cycle 2. The results of all the examinations met the applicable acceptance standards. Examination of 4 steam generator nozzle-to-safe end butt welds and the reactor vessel head-to-flange weld require that requests for relief be prepared as the required code coverage could not be obtained. The examination results for the ISI components are summarized in Appendix I.

As noted, these examinations complete the required examinations for the first period as documented in the ASME Section XI ISI/NDE Program, 1-TRI-0-10, Revision 3. ISI credit for two components reported in the Cycle 1 Summary Report has been revised and are not included in the first period. The examinations performed on the Containment Spray Heat Exchanger Nozzle Welds and the Centrifugal Charging Pump Integrally Welded Attachments will not be used for first period ISI credit. This includes the following ISI identifiers: CSHX-NZ-IN-1A, CSHX-NZ-OUT-1A, and CCPH-1B-B-IA.

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-one tubes were plugged as a result of this inspection. The results are summarized in Appendix II.

Appendix III provides a summary of the system pressure tests performed for code credit during cycle 2. System pressure tests are implemented as defined in Technical Instruction 100,009, "ASME Section XI System Pressure Testing Program Basis Document." Individual system pressure test procedures are listed in the summary.

Appendix IV provides a summary of the repairs and replacements performed during the second 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."

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

#### TABLE 1 SUMMARY OF CYCLE 2 ISI EXAMINATIONS

Examination	Item		Number
Category	Number		Examined
B-A	B1.40	Reactor Vessel Head-to-Flange Weld	1
B-B	B2.40	Steam Generator Tubesheet-to-Head Weld	2
B-D	B3.90	Reactor Vessel Nozzle-to-Vessel Weld	4
	B3.100	Reactor Vessel Nozzle Inside Radius Section	4
į	B3.140	Steam Generator Primary Nozzle Inside Radius Section	4
B-F	B5.10	Reactor Vessel Nozzle-to-Safe End Dissimilar Metal Butt Weld NPS 4 or Larger	4
	B5.70	Steam Generator Nozzle-to-Safe End Dissimilar Metal Butt Weld NPS 4 or Larger	4
B-G-1	B6.10	Reactor Vessel Closure Head Nuts	18
	B6.30	Reactor Vessel Closure Studs, when removed	18
	B6.40	Reactor Vessel Threads in Flange	18
	B6.50	Reactor Vessel Closure Washers	18
B-G-2	B7.50	Pipe Pressure Retaining Bolting, 2" and less is diameter	- 2
	B7.70	Valve Bolts, Studs, and Nuts less than equal 2" diamete	
<b>D</b> .	50.44	Pressure Retaining Welds in Piping	
B-J	B9.11	Circumferential Welds NPS 4 or Larger	24
	B9.21	Circumferential Welds Less than NPS 4	13
	B9.31 B9.32	Branch Pipe Connection Welds NPS 4 or Larger	1 3
		Branch Pipe Connection Welds Less than NPS 4	
B-M-2	B12.50	Valve Body	1
B-K of Code Case N-509	B10.20	Piping Integrally Welded Attachment	1
F-A		Supports	
of Code Case	F1.10	Piping Supports	25
N-491	F1.40	Valve Supports	3
С-В	C2.21	RHR Heat Exchanger Nozzles without Reinforcing Plate in Vessels greater than ½" thickness	2
C-B	C2.22	RHR Heat Exchanger Nozzle Inside Radius Section	2
C-G	C6.20	Valve Body Welds	1
F-A of Code Case N-491	F1.40	Steam Generator Secondary Side Support	. 1

Chattanooga Office Complex

1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

WATTS BAR NUCLEAR PLANT

P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization:

National Board Number for Unit: N/A

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

Two 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 code coverage due to limitations. The RFRs will be submitted under separate letter to the NRC.

#### Proposed RFR 1-ISI-05

ISI Component Number(s):

RCF-D2-2-SE, RCF-D4-2-SE, RCF-F2-1-SE, RCF-F3-1-SE

Component Description:

Steam Generator Nozzle-to-Safe End Butt Weld

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

Report Numbers:

R0385, R0401, R0384, R0393

Summary:

Due to geometric configuration of the steam generator nozzles, volumetric examination of four nozzle-to-safe end butt welds during the Unit 1 Cycle 2 refueling outage 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 four 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).

#### Proposed RFR 1-ISI-06

ISI Component Number(s):

W08-09-A

Component Description:

Reactor Vessel Head-to-Flange Weld

Examination Category/Item No.:

B-A, B1.40

Report Number:

R0512

Summary:

Due to geometric configuration of the reactor vessel head, volumetric examination of the head-to-flange weld during the Unit 1 Cycle 2 refueling outage resulted in less than 100% of ASME code coverage being achieved. The geometric configuration at the taper of the flange-to-head weld prevents the performance of an ultrasonic scan from the flange side of the weld, thus preventing 100% examination of the required full volume. The required surface examination was performed and was found acceptable. Volumetric examination of this component is required in accordance with Table IWB-2500-1, Examination Category B-A, Item Number B1.40. The full examination volume requirement is defined by Figure IWB-

2500-5.

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

## APPENDIX I CYCLE 2 ISI EXAMINATION PLAN

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

System System Title Abbreviation

AFWS Auxiliary Feedwater System RV Reactor Vessel

CVCS Chemical Volume and Control System RHRS Residual Heat Removal System FWS Feedwater System RX Main Loop Reactor Coolant System

MSS Main Steam System SG Steam Generator
RCS Reactor Coolant System SIS Safety Injection System

Component Number ISI Component Identifier

ISO Drawing ISI Drawing Number

Category Code Examination Category

Item Number Code Item Number

Exam Requirement Examination Requirement

89E-01 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)

SR1-01 Supplemental examination

Exam Scheduled Required Examination Method

NDE Procedure TVA NDE Procedure Number

Component Diameter Component Diameter

Nominal Thickness Component Thickness

Exam Date Date Examination Performed

Exam Report Examination Report Number

Exam Results Results of the Examination

P = PASS, examination met the applicable acceptance standards

F = FAIL, examination did not meet the applicable acceptance standards and was repaired or replaced

E = EVALUATION, examination did not meet the applicable acceptance standards but was accepted by evaluation

Comments Applicable Comments

VALLEY AUTHORITY TENNE Owner:

Chattanooga Office Complex 1101 Market Street

14 M. .

Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

ANT Plant: WATTS BAR NUCLE P.O. Box 2000 Spring City, TN 37381-2000

Certificate of Authorization: National Board Number for Unit:

System	Component Number	ISO Drawing	Category	item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration Standard	Component Diameter	Nominal Thickness	Exam Date	Exam Report	Exam Results	Comments
RV	W08-09-A	CHM-2549-C 01	B-A	B1.40	89E-01	MT	N-MT-6			6.890	19990318	R0512	P	Limited Coverage/RFR 1-ISI-6
RV	W08-09-A	CHM-2549-C 01	B-A	B1.40	89E-01	UΤ	VENDOR	WB-51		6.890	19990318	R0512	Р	Limited Coverage/RFR 1-ISI-6
SG	SG-1-2-2	CHM-2660-C 01	B-B	B2.40	89E-01	UT	N-UT-19	WB-57		5.000	19990303	R0435	Р	
sG	SG-1-2-3	CHM-2660-C 01	B-B	B2.40	89E-01	UT	N-UT-19	WB-57		5.000	19990311	R0436	P	
RV	N15-IR	ISI-0427-C 01	B-D	B3.100	89E-01	UT	VENDOR	WB-49	28.94		19990316	R0512	Р	SWRI REPORT 000600
RV	N16-IR	ISI-0427-C 01	B-D	B3.100	89E-01	UT	VENDOR	WB-49	28.94		19990316	R0512	Р	SWRI REPORT 000700
RV	N17-IR	ISI-0427-C 01	B-D	B3.100	89E-01	UΤ	VENDOR	WB-49	28.94		19990316	R0512	Р	SWRI REPORT 000800
	N18-IR	ISI-0427-C 01	B-D	B3.100	89E-01	UT	VENDOR	WB-49	28.94		19990316	R0512	Р	SWRI REPORT 000900
SG	SG-2-C-IR	CHM-2660-C 01	B-D	B3.140	89E-01	UT	N-UT-55	SQ-59			19990306	R0389	Р	
SG	SG-2-H-IR	CHM-2660-C 01	B-D	B3.140	89E-01	UT	N-UT-55	SQ-59			19990306	R0390	P	
SG	SG-3-C-IR	CHM-2660-C 01	B-D	B3.140	89E-01	UT	N-UT-55	SQ-59			19990306	R0387	P	
SG	SG-3-H-IR	CHM-2660-C 01	B-D	B3.140	89E-01	UT	N-UT-55	SQ-59			19990306	R0388	Р	
	N15	ISI-0427-C 01	B-D	B3.90	89E-01	UT	VENDOR	SQ-53	28.94		19990316	R0512	P	SWRI REPORT 000200
RV	N16	ISI-0427-C 01	B-D	B3.90	89E-01	UT	VENDOR	SQ-53	28.94		19990316	R0512	Р	SWRI REPORT 000300
RV	N17	ISI-0427-C 01	B-D	B3.90	89E-01	υT	VENDOR	SQ-53	28.94		19990316	R0512	Р	SWRI REPORT 000400
RV	N18	ISI-0427-C 01	B-D	B3.90	89E-01	UT	VENDOR	SQ-53	28.94		19990316	R0512	Р	SWRI REPORT 000500
RV	N15-SE	ISI-0427-C 06	B-F	B5.10	89E-01	PT	N-PT-9		29.00	2.450	19990317	R0494	P	
RV	N15-SE	ISI-0427-C 06	B-F	B5.10	89E-01	UT	VENDOR	WB-60	29.00	2.450	19990316	R0512	P	SWRI REPORT 001000
RV	N16-SE	ISI-0427-C 06	B-F	B5.10	89E-01	PT	N-PT-9		29.00	2.450	19990317	R0492	Р	
RV	N16-SE	ISI-0427-C 06	B-F	B5.10	89E-01	UT	VENDOR	WB-60	29.00	2.450	19990316	R0512	Р	SWRI REPORT 001100
RV	N17-SE	ISI-0427-C 06	B-F	B5.10	89E-01	PT	N-PT-9		29.00	2.450	19990317	R0499	Р	
RV	N17-SE	ISI-0427-C 06	B-F	B5.10	89E-01	UT	VENDOR	WB-60	29.00	2.450	19990316	R0512	Р	SWRI REPORT 001200
RV	N18-SE	ISI-0427-C 06	B-F	B5.10	89E-01	PT	N-PT-9		29.00	2.450	19990317	R0496	Ρ	
	N18-SE	ISI-0427-C 06	B-F	B5.10	89E-01	UT	VENDOR	WB-60	29.00	2.450	19990316	R0512	Р	SWRI REPORT 001300
SG	RCF-D2-2-SE	CHM-2547-C 01	B-F	B5.70	89E-01	PT	N-PT-9		31.00	2.600	19990303	R0381	Р	
SG	RCF-D2-2-SE	CHM-2547-C 01	B-F	B5.70	89E-01	UT	N-UT-33	WB-60	31.00	2.600	19990304	R0385	P	LIMITED TO 65% COVERAGE / RFR 1-ISI-5
	RCF-D4-2-SE	CHM-2547-C 01	B-F	B5.70	89E-01	PT	N-PT-9		31.00	2.600	19990304	R0386	Р	
SG	RCF-D4-2-SE	CHM-2547-C 01	B-F	B5.70	89E-01	UT	N-UT-33	WB-60	31.00	2.600	19990304	R0401	Р	LIMITED TO 75% COVERAGE / RFR 1-ISI-5
SG	RCF-F2-1-SE	CHM-2547-C 01	B-F	B5.70	89E-01	PT	N-PT-9		31.00	2.600	19990303	R0377	Р	
SG	RCF-F2-1-SE	CHM-2547-C 01	B-F	B5.70	89E-01	UT	N-UT-33	WB-60	31.00	2.600	19990304	R0384	Ρ	LIMITED TO 75% COVERAGE / RFR 1-ISI-5
SG	RCF-F3-1-SE	CHM-2547-C 01	B-F	B5.70	89E-01	PT ,	N-PT-9		31.00	2.600	19990304	R0383	P	

# 3 1

TENNES VALLEY AUTHORITY
Chattanooga Office Complex
1101 Market Street
Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

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

Certificate of Authorization: National Board Number for Unit:

System	Component Number	ISO Drawing	Category	ltem Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration Standard	Component Diameter	Nominal Thickness	Exam Date	Exam Report	Exam Results	Comments
sg	RCF-F3-1-SE	CHM-2547-C 01	B-F	B5,70	89E-01	UT	N-UT-33	WB-60	31.00	2.600	19990304	R0393	Р	LIMITED TO 75% COVERAGE / RFR 1-ISI-5
	RVNUT-01	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
	RVNUT-02	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
₹∨	RVNUT-03	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
SV.	RVNUT-04	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
₹∨	RVNUT-05	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	P	SWRI REPORT MT002/MT004
	RVNUT-06	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
	RVNUT-07	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
	RVNUT-08	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
	RVNUT-09	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
	RVNUT-10	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
	RVNUT-11	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	ρ	SWRI REPORT MT002/MT004
	RVNUT-12	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
₹V	RVNUT-13	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
	RVNUT-14	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
	RVNUT-15	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
	RVNUT-16	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
	RVNUT-17	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	₽	SWRI REPORT MT002/MT004
	RVNUT-18	ISI-0427-C 03	B-G-1	B6.10	89E-01	MT	N-MT-6		07.00	07.09	19990319	R0512	Р	SWRI REPORT MT002/MT004
	RVSTUD-01	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT	N-MT-6		07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT MT001/MT003
•••	RVSTUD-01	iSI-0427-C 03	B-G-1	B6.30	89E-01	UΤ	N-UT-37	WB-76	07.00	64.57	19990319	R0512	P	SWRI EXAM REPORT UT0001
	RVSTUD-02	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT	N-MT-6		07.00	64.57	19990319	R0512	P	SWRI EXAM REPORT MT001/MT003
	RVSTUD-02	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT	N-UT-37	WB-76	07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT UT0001
	RVSTUD-03	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT	N-MT-6		07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT MT001/MT003
	RVSTUD-03	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT	N-UT-37	WB-76	07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT UT0001
	RVSTUD-04	ISI-0427-C 03	B-G-1	B6.30	89E-01	мт	N-MT-6		07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT MT001/MT003
	RVSTUD-04	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT	N-UT-37	WB-76	07.00	64.57	19990319	R0512	P	SWRI EXAM REPORT UT0001
	RVSTUD-05	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT	N-MT-6		07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT MT001/MT003
	RVSTUD-05	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT	N-UT-37	WB-76	07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT UT0001
	RVSTUD-06	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT	N-MT-6		07.00	64.57	19990319	R0512	P	SWRI EXAM REPORT MT001/MT003
	RVSTUD-06	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT	N-UT-37	WB-76	07.00	64.57	19990319	R0512	P	SWRI EXAM REPORT UT0001

Owner.

**VALLEY AUTHORITY** TENNES

All in

Chattanooga Office Complex 1101 Market Street

Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLE P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization: National Board Number for Unit:

System	Component Number	ISO Drawing	Category	Item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration Standard	Component Diameter	Nominal Thickness	Exam Date	Exam Report	Exam Results	Comments
				20.00	89E-01	MT	N-MT-6		07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT MT001/MT003
RV	RVSTUD-07	ISI-0427-C 03	B-G-1	B6.30		UT	N-WT-37	WB-76	07.00	64.57	19990319	R0512	P	SWRI EXAM REPORT UT0001
RV	RVSTUD-07	ISI-0427-C 03	B-G-1	B6.30	89E-01		N-MT-6	VVD-70	07.00	64.57	19990319	R0512	P	SWRI EXAM REPORT MT001/MT003
RV '	RVSTUD-08	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT .	N-WT-37	WB-76	07.00	64.57	19990319	R0512	P	SWRI EXAM REPORT UT0001
RV	RVSTUD-08	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT		VVD-70	07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT MT001/MT003
RV	RVSTUD-09	ISI-0427-C 03	B-G-1	B6,30	89E-01	MT	N-MT-6	1440 70	07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT UT0001
RV	RVSTUD-09	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT	N-UT-37	WB-76			19990319	R0512	Р	SWRI EXAM REPORT MT001/MT003
RV	RVSTUD-10	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT	N-MT-6		07.00	64.57			P	SWRI EXAM REPORT UT0001
RV	RVSTUD-10	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT	N-UT-37	WB-76	07.00	64.57	19990319	R0512	P	SWRI EXAM REPORT MT001/MT003
RV	RVSTUD-11	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT	N-MT-6		07.00	64.57	19990319	R0512		SWRI EXAM REPORT UT0001
RV	RVSTUD-11	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT	N-UT-37	WB-76	07.00	64.57	19990319	R0512	P	
RV	RVSTUD-12	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT	N-MT-6		07.00	64.57	19990319	R0512	P	SWRI EXAM REPORT MT001/MT003
RV	RVSTUD-12	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT	N-UT-37	WB-76	07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT UT0001
RV	RVSTUD-13	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT	N-MT-6		07.00	64.57	19990319	R0512	P	SWRI EXAM REPORT MT001/MT003
RV	RVSTUD-13	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT	N-UT-37	W8-76	07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT UT0001
RV	RVSTUD-14	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT	N-MT-6		07.00	64.57	19990319	R0512	,P	SWRI EXAM REPORT MT001/MT003
RV	RVSTUD-14	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT	N-UT-37	WB-76	07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT UT0001
RV	RVSTUD-15	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT	N-MT-6		07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT MT001/MT003
RV	RVSTUD-15	ISI-0427-C 03	B-G-1	86.30	89E-01	UT	N-UT-37	WB-76	07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT UT0001
RV	RVSTUD-16	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT	N-MT-6		07.00	64.57	19990319	R0512	Ρ	SWRI EXAM REPORT MT001/MT003
RV	RVSTUD-16	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT	N-UT-37	WB-76	07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT UT0001
RV	RVSTUD-17	ISI-0427-C 03	B-G-1	B6.30	89E-01	MT	N-MT-6		07.00	64.57	19990319	R0512	P	SWRI EXAM REPORT MT001/MT003
RV	RVSTUD-17	ISI-0427-C 03	B-G-1	B6.30	89E-01	UΤ	N-UT-37	WB-76	07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT UT0001
RV	RVSTUD-18	ISI-0427-C 03	B-G-1	B6.30	89E-01	мт	N-MT-6		07.00	64.57	19990319	R0512	Р	SWRI EXAM REPORT MT001/MT003
RV	RVSTUD-18	ISI-0427-C 03	B-G-1	B6.30	89E-01	UT	N-UT-37	WB-76	07.00	64.57	19990319	R0512	P	SWRI EXAM REPORT UT0001
RV	RVLIG-01	ISI-0427-C 03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-02	ISI-0427-C 03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-03	ISI-0427-C 03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-04	ISI-0427-C 03	B-G-1	B6.40	89E-01	UΤ	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-05	ISI-0427-C 03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-06	ISI-0427-C 03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-07	ISI-0427-C 03	B-G-1	86.40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	

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

Unit: 1

Commercial Service Date: May 27, 1996

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

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

System	Component	ISO	Category	Item	Exam	Exam	NDE		Component	Nominal	Exam	Exam	Exam Results	Comments
	Number	Drawing		Number	Requirement	Scheduled	Procedure	Standard	Diameter	Thickness	Date	Report	Results	
RV	RVLIG-08	ISI-0427-C 03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-09	ISI-0427-C 03	B-G-1	B6,40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-10	ISI-0427-C 03	B-G-1	B6,40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	
'RV	RVLIG-11	ISI-0427-C 03	B-G-1	B6,40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-12	ISI-0427-C 03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-13	ISI-0427-C 03	B-G-1	B6.40	89E-01	υτ	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-14	ISI-0427-C 03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-15	ISI-0427-C 03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-16	ISI-0427-C 03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	
RV	RVLIG-17	ISI-0427-C 03	B-G-1	B6.40	89E-01	UT	N-UT-37	WB-76	6,00		19990304	R0402	P -	
RV	RVLIG-18	ISI-0427-C 03	B-G-1	B6,40	89E-01	UT	N-UT-37	WB-76	6.00		19990304	R0402	Р	GWD 5744 DEDORT 280004
RV	RVWASHER-01	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	P	SWRI EXAM REPORT 280001
RV	RVWASHER-02	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	P	SWRI EXAM REPORT 280001
RV	RVWASHER-03	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	P	SWRI EXAM REPORT 280001
RV	RVWASHER-04	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	Р	SWRI EXAM REPORT 280001
RV	RVWASHER-05	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	Р	SWRI EXAM REPORT 280001
RV	RVWASHER-06	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	Р	SWRI EXAM REPORT 280001
RV	RVWASHER-07	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	Р	SWRI EXAM REPORT 280001
RV	RVWASHER-08	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	Р	SWRI EXAM REPORT 280001
RV	RVWASHER-09	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	Р	SWRI EXAM REPORT 280001
RV	RVWASHER-10	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	Р	SWRI EXAM REPORT 280001
RV	RVWASHER-11	ISI-0427-C 03	B-G-1	86.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	Ρ	SWRI EXAM REPORT 280001
RV	RVWASHER-12	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	Р	SWRI EXAM REPORT 280001
RV	RVWASHER-13	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	Р	SWRI EXAM REPORT 280001
RV	RVWASHER-14	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	Ρ	SWRI EXAM REPORT 280001
RV	RVWASHER-15	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	Р	SWRI EXAM REPORT 280001
RV	RVWASHER-16	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	Р	SWRI EXAM REPORT 280001
RV	RVWASHER-17	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	P	SWRI EXAM REPORT 280001
RV	RVWASHER-18	ISI-0427-C 03	B-G-1	B6.50	89E-01	VT-1	VENDOR		07.00	01.48	19990319	R0512	P	SWRI EXAM REPORT 280001
cvcs	CVC-05-BC	ISI-0050-C 04	B-G-2	B7.50	89E-01	VT-1	N-VT-1		01.50	0.281	19990310	R0425	Р	
RCS	RC-03-BC	ISI-0365-C 01	B-G-2	B7.50	P89000	VT-1	N-VT-1				19990309	R0466	Р	
	30 20													

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

Unit: 1

Commercial Service Date: May 27, 1996

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

Certificate of Authorization: National Board Number for Unit:

System	Component Number	ISO Drawing	Category	ltem Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration Standard	Component Diameter	Nominal Thickness	Exam Date	Exam Report	Exam Results	Comments
					500000	\CT.4					19990309	R0468	Þ	
RCS	RC-04-BC	ISI-0365-C 01	B-G-2	B7.50	P89000	VT-1	N-VT-1				19990310	R0467	P	
RCS	RC-05-BC	ISI-0365-C 01	B-G-2	B7.50	P89000	VT-1	N-VT-1				19990312	R0443	' P	
SIS	SI-04-BC	CHM-2758-C 13	B-G-2	B7.50	89E-01	VT-1	N-VT-1					R0518	P	
RCS	68-563-BC	ISI-0365-C 01	B-G-2	B7.70	P89000	VT-1	N-VT-1				19990329		P	
RCS	68-564-BC	ISI-0365-C 01	B-G-2	B7.70	P89000	VT-1	N-VT-1				19990319	R0505	P	
RCS	68-565-BC	ISI-0365-C 01	B-G-2	B7.70	P89000	VT-1	N-VT-1				19990319	R0504	•	
RHRS	63-640-BC	CHM-2636-C 07	B-G-2	B7.70	89E-01	VT-1	N-VT-1		08.00		19990305	R0414	P -	
RCS	RCF-D232-01	ISI-0365-C 01	B-J	B9.11	89E-01	PT	N-PT-9		06.00	0.718	19990313	R0470	P	
RCS	RCF-D232-01	ISI-0365-C 01	B-J	B9.11	89E-01	UΤ	N-UT-18	WB-01	06.00	0.718	19990313	R0469	Р	
RCS	RCF-D232-01B	ISI-0365-C 01	B-J	B9.11	89E-01	PT	N-PT-9		06.00	0.718	19990312	R0458	Р	
RCS	RCF-D232-01B	ISI-0365-C 01	B-J	B9.11	89E-01	UT	N-UT-18	WB-01	06.00	0.718	19990312	R0478	Р	
RCS	RCF-D233-15	ISI-0365-C 02	B-J	B9.11	89E-01	PT	N-PT-9		06.00	0.719	19990312	R0456	Р	
RCS	RCF-D233-15	ISI-0365-C 02	B-J	B9.11	89E-01	UT	N-UT-18	WB-01	06.00	0.719	19990312	R0461	Р	
RCS	RCS-022	ISI-0365-C 01	B-J	B9.11	89E-01	PT	N-PT-9		06.00	0.718	19990312	R0457	P	
RCS	RCS-022	ISI-0365-C 01	B-J	B9.11	89E-01	UT	N-UT-18	WB-01	06.00	0.718	19990312	R0477	Р	
RCS	RCS-036	ISI-0365-C 02	B-J	B9.11	89E-01	PT	N-PT-9		06.00	0.718	19990312	R0455	Р	
RCS	RCS-036	ISI-0365-C 02	B-J	B9.11	89E-01	UT	N-UT-18	WB-01	06.00	0.718	19990312	R0462	Р	
RCS	RCS-047	ISI-0365-C 02	B-J	B9.11	89E-01	PT	N-PT-9		04.00	0.531	19990315	R0479	Р	
RCS	RCS-047	ISI-0365-C 02	B-J	B9.11	89E-01	UT	N-UT-18	WB-40	04.00	0.531	19990315	R0485	Р	
RHRS	RHRF-D055-13	CHM-2636-C 08	B-J	B9.11	89E-01	PT	N-PT-9		08.00	0.906	19990305	R0416	Р	
RHRS	RHRF-D055-13	CHM-2636-C 08	B-J	B9.11	89E-01	UT	N-UT-18	WB-02	08.00	0.906	19990306	R0408	Р	
RHRS	RHRF-D055-15	CHM-2636-C 08	B-J	B9.11	89E-01	PT	N-PT-9		06.00	0.718	19990305	R0417	Р	
RHRS	RHRF-D055-15	CHM-2636-C 08	B-J	B9.11	89E-01	UT	N-UT-18	WB-01	06.00	0.718	19990309	R0482	Р	
RHRS	RHRS-152A	CHM-2636-C 08	B-J	B9.11	89E-01	PT	N-PT-9		08.00	0.906	19990305	R0415	Р	
RHRS	RHRS-152A	CHM-2636-C 08	B-J	B9.11	89E-01	UT	N-UT-18	WB-02	08.00	0.906	19990306	R0407	Ρ	
RHRS	RHRS-154	CHM-2636-C 08	B-J	B9.11	89E-01	PT	N-PT-9		06.00	0.718	19990305	R0419	Р	
RHRS	RHRS-154	CHM-2636-C 08	B-J	B9.11	89E-01	UT	N-UT-18	WB-01	06.00	0.718	19990309	R0405	Р	
RHRS	RHRS-155	CHM-2636-C 08	B-J	B9.11	89E-01	PT	N-PT-9		06.00	0.718	19990305	R0418	Р	
RHRS	RHRS-155	CHM-2636-C 08	B-J	B9.11	89E-01	UT	N-UT-18	WB-01	06.00	0.718	19990306	R0406	Р	
RX	RCF-D1-1	CHM-2547-C 01	B-J	B9.11	89E-01	PT	N-PT-9		29.00	2.450	19990317	R0493	Р	
RX	RCF-D1-1	CHM-2547-C 01	B-J	B9.11	89E-01	UT	VENDOR	WB-60	29.00	2.450	19990316	R0512	₽	SWRI EXAM REPORT EXAM 23 & EXAM 24
RX	RCF-D2-1	CHM-2547-C 01	B-J	B9.11	89E-01	PT	N-PT-9		29.00	2.450	19990317	R0498	Р	
RX	RCF-D2-1	CHM-2547-C 01	B-J	B9.11	89E-01	UT	VENDOR	WB-60	29.00	2.450	19990316	R0512	Р	SWRI EXAM REPORT EXAM 19 & EXAM 20
KX.	NCF-D2-1	Gr 11VI-2547-C 01	D-0	39.11	00L-01	٥.	,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<b>⊒.</b>				

VALLEY AUTHORITY TENNES

Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

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

Certificate of Authorization: National Board Number for Unit:

System	Component Number	ISO Drawing	Category	Item Number	Exam Requirement	Exam Scheduled	NDE Procedure		Component Diameter	Nominal Thickness	Exam Date	Exam Report	Exam Results	Comments
	Number													
RX	RCF-D4-1	CHM-2547-C 01	B-J	B9.11	89E-01	PT	N-PT-9		29.00	2.450	19990317	R0500	P.	SWR EXAM REPORT EXAM 15 & EXAM 16
RX	RCF-D4-1	CHM-2547-C 01	B-J	B9.11	89E-01	UT	VENDOR	WB-60	29.00	2,450	19990316	R0512	P	SWR EXAM REPORT EXAM 13 & EXAM 10
RX	RCF-D5-1	CHM-2547-C 01	B-J	B9.11	89E-01	PΤ	N-PT-9		29.00	2.450	19990317	R0495	P _	THE TYPE PERCET FYAM 44 8 FYAM 42
, KX	RCF-D5-1	CHM-2547-C 01	B-J	B9.11	89E-01	UT	VENDOR	WB-60	29.00	2.450	19990316	R0512	P	SWRI EXAM REPORT EXAM 11 & EXAM 12
SIS	SiF-D089-11	CHM-2758-C 07	B-J	B9.11	89E-01	PT	N-PT-9		10.00	1.000	19990306	R0410	Р	
SIS	SIF-D089-11	CHM-2758-C 07	B-J	B9.11	89E-01	UT	N-UT-18	WB-33	10.00	1.000	19990310	R0460	Р	
SIS	SIF-D092-03	CHM-2758-C 10	B-J	B9.11	89E-01	PT	N-PT-9		10.00	1.000	19990318	R0488	Р	
SIS	SIF-D092-03	CHM-2758-C 10	B-J	B9.11	89E-01	UT	N-UT-18	WB-33	10.00	1.000	19990319	R0503	P	
SIS	SIF-D092-07	CHM-2758-C 10	B-J	B9.11	89E-01	PT	N-PT-9		06.00	0.718	19990318	R0502	P	
SIS	SIF-D092-07	CHM-2758-C 10	B-J	B9.11	89E-01	UT	N-UT-18	WB-01	06.00	0.718	19990318	R0486	Р	
SIS	SIS-089	CHM-2758-C 07	B-J	B9.11	89E-01	PT	N-PT-9		10.00	1.000	19990306	R0411	Р	
SIS	SIS-089	CHM-2758-C 07	B-J	B9.11	89E-01	UT	N-UT-18	WB-33	10.00	1.000	19990306	R0403	Р	
SIS	SIS-090	CHM-2758-C 07	B-J	B9.11	89E-01	PΤ	N-PT-9		10.00	1.000	19990306	R0409	Р	
SIS	SIS-090	CHM-2758-C 07	B-J	89.11	89E-01	UT	N-UT-18	WB-33	10.00	1.000	19990306	R0404	Р	
SIS	SIS-092	CHM-2758-C 07	B-J	B9.11	89E-01	PT	N-PT-9		06.00	0.718	19990318	R0497	P	
SIS	SIS-092	CHM-2758-C 07	B-J	B9.11	89E-01	UT	N-UT-18	WB-01	06.00	0.718	19990318	R0489	Р	
SIS	SIS-095	CHM-2758-C 07	B-J	B9.11	89E-01	PT	N-PT-9		06.00	0.718	19990306	R0412	Р	
SIS	SIS-095	CHM-2758-C 07	B-J	B9.11	89E-01	UT	N-UT-18	WB-01	06.00	0.718	19990308	R0484	Р	
SIS	SIS-120	CHM-2758-C 10	B-J	B9.11	89E-01	PT	N-PT-9		10.00	1.000	19990312	R0454	Р	
SIS	SIS-120	CHM-2758-C 10	B-J	B9.11	89E-01	UT	N-UT-18	WB-33	10.00	1.000	19990316	R0490	Р	
SIS	SIS-129	CHM-2758-C 10	B-J	B9.11	89E-01	PT	N-PT-9		06.00	0.718	19990318	R0501	Р	
SIS	SIS-129	CHM-2758-C 10	B-J	B9.11	89E-01	UT	N-UT-18	WB-01	06.00	0.718	19990318	R0487	Р	
cvcs	CVCF-B-T199-15	ISI-0005-C 02	B-J	B9.21	89E-01	PT	N-PT-9		03.00	0.438	19990315	R0475	Р	
cvcs	CVCF-B-T199-16	ISI-0005-C 02	B-J	B9.21	89E-01	PT	N-PT-9		03.00	0.438	19990315	R0476	Р	
cvcs	CVCF-B-T199-19	ISI-0005-C 02	B-J	B9.21	89E-01	PT	N-PT-9		03.00	0.438	19990316	R0480	Р	
cvcs	CVCF-B-T199-20	ISI-0005-C 02	B-J	B9.21	89E-01	PT	N-PT-9		03.00	0.438	19990309	R0394	Р	
cvcs	CVCF-D036-12	ISI-0005-C 01	B-J	B9.21	89E-01	PT	N-PT-9		03.00	0.438	19990311	R0431	Р	
cvcs	CVCF-D036-37	ISI-0005-C 01	B-J	B9.21	89E-01	PT	N-PT-9		03.00	0.438	19990311	R0452	Р	
cvcs	CVCF-D036-38	ISI-0005-C 01	B-J	B9.21	89E-01	PT	N-PT-9		03.00	0.438	19990311	R0453	P	
cvcs	CVCS-005	ISI-0005-C 01	B-J	B9.21	89E-01	PT	N-PT-9		03.00	0.438	19990311	R0432	Р	
RCS	RCS-025	ISI-0365-C 01	B-j	B9.21	89E-01	PT	N-PT-9		03.00	0.438	19990312	R0451	Р	
SIS	SIF-D086-06	CHM-2758-C 04	B-J	B9.21	89E-01	PT	N-PT-9		02.50	0.375	19990302	R0376	Р	
SIS	SIF-D086-07	CHM-2758-C 04	B-J	B9.21	89E-01	PT	N-PT-9		02.50	0.375	19990302	R0380	Р	

TENNESSEE VALLEY AUTHORITY

4 5 45 45

Chattanooga Office Complex 1101 Market Street

Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLE P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization: National Board Number for Unit:

System	Component Number	ISO Drawing	Category	Item Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration Standard	Component Diameter	Nominal Thickness	Exam Date	Exam Report	Exam Results	Comments
	Mumber	Drawing		110111001	Troquironion									
SIS	SIS-055	CHM-2758-C 04	B-J	B9.21	89E-01	PT	N-PT-9		02.50	0.375	19990302	R0378	Р	
SIS	SIS-056	CHM-2758-C 04	B-J	89.21	89E-01	PT	N-PT-9		02.50	0.375	19990302	R0379	Р	
RX	RCS-3-5	CHM-2547-C 01	B-J	B9.31	89E-01	PT	N-PT-9		10.00	2.490	19990308	R0398	Þ	
kx	RCS-3-5	CHM-2547-C 01	B-J	B9.31	89E-01	UT	N-UT-33	WB-59	10.00	2.490	19990316	R0491	Р	
cvcs	CVCW-03	ISI-0005-C 01	B-J	B9.32	89E-01	PT	N-PT-9		03.00	1.313	19990311	R0430	Р	
RX	1-TW-68-24C	CHM-2547-C 02	B-J	B9.32	89E-01	PT	N-PT-9		02.50		19990304	R0382	P	
SIS	SIW-11	CHM-2758-C 04	B-J	89.32	89E-01	PT	N-PT-9		01.50		19990310	R0428	Р	
RCS	1-68-415-IA	ISI-0364-C 01	B-K-1	B10.20	89E-01	PT	N-PT-9				19990310	R0429	Р	
RCS	68-563	ISI-0365-C 01	B-M-2	B12.50	P89000	VT-1	N-VT-1		06.00		19980605	R0361	Р	
RCS	68-564	ISI-0365-C 01	B-M-2	B12.50	P89000	VT-1	N-VT-1				19980604	R0360	Р	
RCS	68-565	ISI-0365-C 01	B-M-2	B12.50	P89000	VT-1	N-VT-1				19980603	R0359	₽	
RHRS	RHRHX-3-1A	CHM-2662-C 01	C-B	C2.21	89E-01	PT	N-PT-9		14.00	1.000	19990310	R0433	Р	
RHRS	RHRHX-3-1A	CHM-2662-C 01	С-В	C2.21	89E-01	UT	N-UT-73	WB-77	14.00	1.000	19990310	R0420	P	Sup. PT Exam perf. from ID included
RHRS	RHRHX-4-1A	CHM-2662-C 01	C-B	C2.21	89E-01	PT	N-PT-9		14.00	1.000	19990310	R0434	P	
RHRS	RHRHX-4-1A	CHM-2662-C 01	C-B	C2.21	89E-01	UT	N-UT-73	WB-77	14.00	1.000	19990310	R0421	P	Sup. PT Exam perf. from ID included
RHRS	RHRHX-3-1A-IR	CHM-2662-C 01	С-В	C2.22	89E-01	UT	N-UT-73	WB-77	14.00		19990311	R0423	Р	Sup. PT Exam perf. from ID included
RHRS	RHRHX-4-1A-IR	CHM-2662-C 01	С-В	C2.22	89E-01	UT	N-UT-73	WB-77	14.00		19990311	R0422	Р	Sup. PT Exam perf. from ID included
FWS	FWF-D372-05	CHM-2671-C 06	C-F-2	C5.51	P89000	MT	N-MT-6		06.00	0.432	19990324	R0510	Ρ	
FWS	FWF-D372-05	CHM-2671-C 06	C-F-2	C5.51	P89000	UT	N-UT-18	WB-37	06.00	0.432	19990324	R0514	Р	
FWS	FWF-D372-28	CHM-2671-C 06	C-F-2	C5.51	P89000	MT	N-MT-6		06.00	0.432	19990324	R0511	Р	
FWS	FWF-D372-28	CHM-2671-C 06	C-F-2	C5.51	P89000	UT	N-UT-18	WB-37	06.00	0.432	19990324	R0513	Р	
MSS	MSVS-1-530-BS062	ISI-0081-C 01	C-G	C6.20	89E-01	MT	N-MT-6		10.00		19990309	R0399	Р	
cvcs	1-68-047	ISI-0026-C 02	F-A	F1.10A	89E-01	VT-3	N-VT-1		03.00		19990308	R0397	Р	
RCS	1-68-092	ISI-0364-C 01	F-A	F1.10A	89E-01	VT-3	N-VT-1		03.00		19990310	R0427	Р	
RHRS	1-63-343	ISI-0020-C 08	F-A	F1.10A	89E-01	VT-3	N-VT-1		08.00		19990302	R0372	Р	
SIS	1-63-005	ISI-0021-C 07	F-A	F1.10A	89E-01	VT-3	N-VT-1		10.00		19990301	R0375	P	
SIS	1-63-153	ISI-0021-C 08	F-A	F1.10A	89E-01	VT-3	N-VT-1		02.50		19990301	R0368	Р	
SIS	1-63-482	ISI-0021-C 07	F-A	F1.10A	89E-01	VT-3	N-VT-1		10.00		19990311	R0440	Р	
cvcs	1-62A-306	ISI-0026-C 01	F-A	F1.10B	89E-01	VT-3	N-VT-1		03.00		19990319	R0396	P	
cvcs	1-62A-383	ISI-0026-C 02	F-A	F1.10B	89E-01	VT-3	N-VT-1		03.00		19990313	R0473	Р	
RCS	1-68-055	ISI-0364-C 02	F-A	F1.10B	89E-01	VT-3	N-VT-1		06.00		19990310	R0426	Р	
RX	RCL-CLR-2	ISI-0438-C 01	F-A	F1.10B	89E-01	VT-3	N-VT-1				19990227	R0392	Р	

Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

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

Certificate of Authorization:

National Board Number for Unit:

System	Component Number	ISO Drawing	Category	ltem Number	Exam Requirement	Exam Scheduled	NDE Procedure	Calibration Component Standard Diameter	Nominal Thickness	Exam Date	.Exam Report	Exam Results	Comments
SIS	1-63-010	ISI-0021-C 07	F-A	F1.10B	89E-01	VT-3	N-VT-1	06.00		19990311	R0444	P	
SIS	1-63-192	ISI-0021-C 08	F-A	F1.10B	89E-01	VT-3	N-VT-1	02.50		19990301	R0367	Р	
SIS	1-63-198	ISI-0021-C 08	F-A	F1.10B	89E-01	VT-3	N-VT-1	02.50		19990313	R0471	Р	
SIS	1-63-215	ISI-0021-C 12	F-A	F1.10B	89E-01	VT-3	N-VT-1	01.50		19990311	R0446	Р	
SIS	1-63-218	ISI-0021-C 12	F-A	F1.10B	89E-01	VT-3	N-VT-1	01.50		19990311	R0445	Р	
RCS	1-68-025	ISI-0364-C 02	F-A	F1.10C	89E-01	VT-3	N-VT-1	04.00		19990301	R0366	Ρ	ACC. RANGE 886 TO 978 POUNDS
SIS	1-63-444	ISI-0021-C 07	F-A	F1.10C	89E-01	VT-3	N-VT-1	10.00		19990311	R0438	P	ACC. RANGE 2377 TO 2628 POUNDS
cvcs	1-62A-006	ISI-0063-C 01	F-A	F1.10D	89E-01	VT-3	N-VT-1	02.00		19990301	R0370	Р	
cvcs	1-62A-065	ISI-0063-C 02	F-A	F1.10D	89E-01	VT-3	N-VT-1	02.00		19990301	R0371	Р	
RCS	1-68-415	ISI-0364-C 01	F-A	F1.10D	P89000	VT-3	N-VT-1	03.00		19990319	R0506	Р	
RCS	1-68-415	ISI-0364-C 01	F-A	F1.10D	89E-01	VT-3	N-VT-1	03.00		19990310	R0424	Р	
RHRS	1-63-596	ISI-0020-C 08	F-A	F1.10D	89E-01	VT-3	N-VT-1	02.00		19990305	R0413	Р	
SIS	1-63-156	ISI-0021-C 13	F-A	F1.10D	89E-01	VT-3	N-VT-1	01.50		19990312	R0442	P	
SIS	1-63-196	ISI-0021-C 08	F-A	£1.10D	89E-01	VT-3	N-VT-1	02.50		19990313	R0472	Р	
SIS	1-63-462	ISI-0021-C 07	F-A	F1.10D	89E-01	VT-3	N-VT-1	06.00		19990312	R0439	Р	
SIS	1-63-465	ISI-0021-C 10	F-A	F1.10D	89E-01	VT-3	N-VT-1	02.00		19990312	R0441	Р	
FWS	1-03A-498	ISI-0062-C 08	F-A	F1.20A	P89000	VT-3	N-VT-1	06.00		19990405	R0527	P	
FWS	1-03A-499	ISI-0062-C 08	F-A	F1.20B	P89000	VT-3	N-VT-1	06.00		19990405	R0528	P	
FWS	1-03A-500	ISI-0062-C 08	F-A	F1.20B	P89000	VT-3	N-VT-1	06.00		19990405	R0529	Р	
MSS	1-01A-389	ISI-0011-C 03	F-A	F1.20C	P89000	VT-3	N-VT-1	32.00		19990405	R0526	P	
FWS	1-03A-374	ISI-0062-C 05	F-A	F1.20D	P89000	VT-3	N-VT-1	06,00		19990402	R0522	Р	
cvcs	47A406-09-051	ISI-0026-C 01	F-A	F1.40A	89E-01	VT-3	N-VT-1	03.00		19990315	R0481	Р	
SG	SGH-1-1	CHM-2660-C 03	F-A	F1.40B	P89000	VT-3	N-VT-1			19990325	R0515	Р	
SG	SGH-1-2	CHM-2660-C 03	F-A	F1.40B	P89000	VT-3	N-VT-1			19990325	R0516	Р	
SG	SGH-1-2	CHM-2660-C 03	F-A	F1.40B	89E-01	VT-3	N-VT-1			19990302	R0391	Р	
SG	SGH-1-4	CHM-2660-C 03	F-A	F1.40B	P89000	VT-3	N-VT-1			19990329	R0517	Р	
cvcs	47A406-09-050	ISI-0026-C 01	F-A	F1.40D	89E-01	VT-3	N-VT-1	03.00		19990308	R0395	Р	
RCS	1-68-023	ISI-0364-C 02	F-A	F1.40D	89E-01	VT-3	N-VT-1	04.00		19990302	R0369	Р	

Chattanooga Office Complex

1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

WATTS BAR NUCLEAR PLANT Plant:

P.O. Box 2000 Spring City, TN 37381-2000

Certificate of Authorization:

National Board Number for Unit: N/A

#### APPENDIX II STEAM GENERATOR TUBE EDDY CURRENT SUMMARY

The attached table summarizes the examinations and results of the steam generator tube eddy current examinations performed during the cycle 2 refueling outage.

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:

National Board Number for Unit:

N/A N/A

# CLASSIFICATION OF INSPECTION RESULTS WATTS BAR NUCLEAR PLANT UNIT 1 CYCLE 2 SG INSPECTION

				•	
initial Eddy Current Exam	<u>SG1</u>	<u>SG2</u>	<u>SG3</u>	SG4	
Full Length Bobbin Coil	4667	4674	4672	4667	
U-Bend Plus Point	137	137	137	137	
Top of Tubesheet RPC	4667	4674	4672	4667	
Dented TSP Plus Point	0	3	2	9	
Freespan Ding Plus Point	16	22	30	40	
Diagnostic Plus Point	25	27	37	19	
Expansion_	<u>SG1</u>	SG2	<u>SG3</u>	<u>SG4</u>	
Full Length Bobbin Coil	0 (1)	0 (1)	0	0 (1)	
U-Bend Plus Point	0	0	0	0	
Top of Tubesheet RPC	0	0 (1)	0	0	
Dented TSP Plus Point	0	0	0	0	
Freespan Ding Plus Point	0,	0	0	0	_
Total Exams Completed	9508	9537	9550	9539	
Total Tubes Examined	4667	4674	4672	4667	
Indications	<u>SG1</u>	<u>SG2</u>	SG3	SG4	
AVB Wear	3	4	2	13	
PWSCC HTS Axial	0	1	0	0	
Loose Parts Damage	11	1	0	1	
Total Indications	15	6	2	14	
<u>Plugging Status</u>	<u>SG1</u>	<u>SG2</u>	<u>SG3</u>	<u>SG4</u>	
Previously Plugged Tubes	. 7	0	2	7	
Plugged Current Outage by Damage Mechanism					
AVB Wear	0	0	0	0	
PWSCC HTS Axial	0	1	0	0	
Loose Parts Damage	11	1	0	1	
Plugged Preventively	2	5	0	0	
Total	20	7	2	8	

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: National Board Number for Unit: N/A N/A

## CLASSIFICATION OF INSPECTION RESULTS WATTS BAR NUCLEAR PLANT UNIT 1 CYCLE 2 SG INSPECTION

Classification of Inspection Results	<u>SG1</u>	<u>SG2</u>	<u>SG3</u>	<u>SG4</u>
Full Length Bobbin Coil	C-2 (1)	C-2 (1)	C-1	C-2 (1)
U-Bend Plus Point	C-1	C-1	C-1	C-1
Top of Tubesheet RPC	C-1	C-2 (1)	C-1	C-1
Dented Pluş 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.

Note (1): Initial sample was 100% of population; therefore, no expansion sample required.

TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex Owner:

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:

National Board Number for Unit: N/A

#### APPENDIX III PRESSURE TEST SUMMARY

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

SSEE VALLEY AUTHORITY

Chattanooga Office Complex 1101 Market Street Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

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

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

## WBN Unit 1 Cycle 2 RFO Pressure Test Report [First Inspection Interval, first period]

				Performance	
System	Procedure No.	Test Type	Exam	Date	Test Results
Auxiliary Feedwater System - Train A Auxiliary Feedwater System Code Class 2 and 3 piping and components	1-TRI-3-901-A	System	VT-2	2/27 through	Satisfactory
associated with the 1A-A Auxiliary Feedwater Pump.		Inservice	ļ	4/10/99	
Auxiliary Feedwater System - Train A Auxiliary Feedwater System Code Class 2 and 3 piping and components	1-TRI-3-902	System	VT-2	Note 3	Satisfactory
associated with the 1A-S Auxiliary Feedwater Pump		Inservice	ļ		
Main Feedwater System - Main feedwater system Code Class 2 piping and components located inside the reactor	1-TRI-3-903	System	VT-2	4/10 through	Satisfactory
building, including the secondary side of the steam generators.		Inservice	ļ	4/14/99	
Auxiliary Feedwater System - Essential Raw Cooling Water System supply to the 1A-A and 1A-S Auxiliary Feedwater	1-TRI-3-904-A	System	VT-2	1/28/99	Satisfactory
Pumps Code Class 3 piping and components		Functional			
Auxiliary Feedwater System - Essential Raw Cooling Water System supply to the 1B-B and 1A-S Auxiliary Feedwater	1-TRI-3-904-B	System	VT-2	1/21/99	Satisfactory
Pumps Code Class 3 piping and components		Functional			
Main Feedwater System - Main feedwater system Code Class 2 piping and components located outside the reactor	1-TRI-3-905	System	VT-2	4/21/99	Satisfactory
building.		Inservice		Note 1	
Main Control Room Chilled Water System - Train A Main Control Room Chilled Water System piping and components	0-TRI-31-902-A	System	VT-2	1/12/99	Satisfactory
		Inservice		Note 2	
Main Control Room Chilled Water System - Train B Main Control Room Chilled Water System piping and components	0-TRI-31-902-B	System	VT-2	1/15/99	Satisfactory
		Inservice		Note 2	
Electric Board Room Chilled Water System - Train A Electric Board Room Chilled Water System piping and	0-TRI-31-903-A	System	VT-2	1/5/99	Satisfactory
components		Inservice		Note 2	
Electric Board Room Chilled Water System - Train B Electric Board Room Chilled Water System piping and	0-TRI-31-903-B	System	VT-2	11/19/98	Satisfactory
components		Inservice		Note 2	
Shutdown Board Room Chilled Water System - Train A Shutdown Board Room Chilled Water System piping and	0-TRI-31-904-A	System	VT-2	1/8/99	Satisfactory
components		Inservice	ļ	Note 2	
Shutdown Board Room Chilled Water System - Train B Shutdown Board Room Chilled Water System piping and	0-TRI-31-904-B	System	VT-2	1/22/99	Satisfactory
components		Inservice		Note 2	
Station Drainage - Code Class 3 open ended drain lines from Accumulator Rooms 3 and 4 to inside the polar crane wall.	1-TRI-40-901	System	Un-	3/20/99	Satisfactory
		Inservice	impaired Flow		
Demineralized Water - Code Class 2 piping and components associated with the Demineralized Water System	1-TRI-59-901	System	VT-2	1/28/99	Satisfactory
penetration through containment.	1-1K1-39-901	Functional	V 1-2	Note 2	Dudsiactory
Ice Condenser - Code Class 3 floor drain piping and components	1-SI-61-9	System	Un-	4/4/99	Satisfactory
the Condenser - Code Class 5 floor drain piping and components	1-51-01-7	Inservice	impaired	11 11/22	Dansladion
		miser vice	Flow		
Ice Condenser - Code Class 2 piping and components associated with the Ice Condenser System penetrations through	1-TRI-61-901	System	VT-2	2/3/99	Satisfactory
containment		Inservice			
Chemical and Volume Control System - Code Class 2 and 3 piping and components located outside containment	1-TRI-62-902	System	VT-2	2/5 through	Satisfactory
associated with charging, letdown, seal injection, high head safety injection, and boric acid batching and storage.	1-TRI-62-903	Inservice		2/27/99	

TENNESSEE VALLEY AUTHORITY

Chattanooga Office Complex 1101 Market Street

Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR P

P.O. Box 2000 Spring City, TN 37381-2000

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

## WBN Unit 1 Cycle 2 RFO Pressure Test Report [First Inspection Interval, first period]

			T	Performance	
System	Procedure No.	Test Type	Exam	Date	Test Results
Safety Injection - Train A and Common Code Class 2 safety injection system piping and components located outside containment	1-TRI-63-901-A	System Functional	VT-2	2/8/99 Note 2	Satisfactory
Safety Injection - Train B Code Class 2 safety injection system piping and components located outside containment	1-TRI-63-901-B	System Functional	VT-2	11/25/98 Note 2	Satisfactory
Safety Injection - Code Class 2 safety injection system piping and components located inside containment, exclusive of the high safety injection system piping.	1-TRI-63-902	System Functional	VT-2	3/20 through 4/16/99	Satisfactory
Safety injection - Code Class 2 high head safety injection piping and components from the interface with the Chemical and Volume Control System to the interface with the Code Class 1 boundary.	1-TRI-63-903	System Functional	VT-2	3/20/99	Satisfactory
Safety Injection - Code Class 2 safety and relief valve discharge header	1-TRI-63-904	System Functional	VT-2	3/31/99	Satisfactory
Essential Raw Cooling Water - Train A Code Class 3 ERCW piping and components supplying the Reactor Coolant Pump motor coolers.	1-TRI-67-901-A	System Inservice	VT-2	2/28/99	Satisfactory
Essential Raw Cooling Water - Train B Code Class 3 ERCW piping and components supplying the Reactor Coolant Pump motor coolers.	1-TRI-67-901-B	System Inservice	VT-2	2/28/99	Satisfactory
Essential Raw Cooling Water - Train A Code Class 3 buried supply piping	0-TRI-67-902-A	System Inservice	Delta Flow	4/5/99	Satisfactory
Essential Raw Cooling Water - Train B Code Class 3 buried supply piping	0-TRI-67-902-B	System Inservice	Delta Flow	4/5/99	Satisfactory
Essential Raw Cooling Water - Train A Code Class 3 buried discharge piping	0-TRI-67-902-A	System Inservice	Adequate Flow	4/5/99	Satisfactory
Essential Raw Cooling Water - Train B Code Class 3 buried discharge piping	0-TRI-67-902-B	System Inservice	Adequate Flow	4/5/99	Satisfactory
Essential Raw Cooling Water - Train A Code Class 3 piping and components located in the Intake Pumping Station	0-TRI-67-903-A	System inservice	VT-2	1/16 through 1/20/99 Note 2	Satisfactory
Essential Raw Cooling Water - Train B Code Class 3 piping and components located in the Intake Pumping Station	0-TRI-67-903-B	System inservice	VT-2	1/16 through 1/20/99 Note 2	Satisfactory
Essential Raw Cooling Water - Train A Code Class 3 piping and components located in the Auxiliary, Turbine, and Diesel Generator Buildings	0-TRI-67-904-A	System Inservice	VΤ-2	1/26 through 1/31/99 Note 2	Satisfactory
Essential Raw Cooling Water - Train B Code Class 3 piping and components located in the Auxiliary, Turbine, and Diesel Generator Buildings	0-TRI-67-904-B	System Inservice	VT-2	1/26 through 1/31/99 Note 2	Satisfactory
Essential Raw Cooling Water - Train A Code Class 3 supply and discharge piping to the Containment Spray heat exchanger 1A-A.	1-TRI-67-905-A	System Functional	VT-2	3/16/99	Satisfactory

TENNESSEE VALLEY AUTHORITY Chattanooga Office Complex 1101 Market Street

Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR P P.O. Box 2000

Spring City, TN 37381-2000

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

## WBN Unit 1 Cycle 2 RFO Pressure Test Report [First Inspection Interval, first period]

				Performance	
System	Procedure No.	Test Type	Exam	Date	Test Results
Essential Raw Cooling Water - Train B Code Class 3 supply and discharge piping to the Containment Spray heat exchanger 1B-B.	1-TRI-67-905-B	System Functional	VT-2	3/16/99	Satisfactory
Reactor Coolant System - Code Class 1 Reactor Coolant and interfacing system piping and components	1-TRI-68-6	System Leakage	VT-2	4/10/99	Satisfactory
Reactor Coolant System - Code Class 1 bolted joints	1-TRI-68-7	System Leakage	VT-2 N-533	3/2 through 3/16/99	Satisfactory
Component Cooling System - Train 1A Code Class 3 Component Cooling System piping and components located outside the reactor building.	1-TRI-70-902-A	System Inservice	VT-2	2/1/99 Note 2	Satisfactory
Component Cooling System - Train B Code Class 3 Component Cooling System piping and components located outside the reactor building	0-TRI-70-902-B	System Inservice	VT-2	1/27/99 Note 2	Satisfactory
Component Cooling System - Train 2A Code Class 3 Component Cooling System piping and components located outside the reactor building.	2-TRI-70-902-A	System Inservice	VT-2	1/27/99 Note 2	Satisfactory
Containment Spray - Train 1A Code Class 2 Containment Spray System piping and components	1-TRI-72-901-A	System Functional	VT-2	1/7/99 Note 2	Satisfactory
Containment Spray - Train 1B Code Class 2 Containment Spray System piping and components	1-TRI-72-901-B	System Functional	VT-2	1/7/99 Note 2	Satisfactory
Residual Heat Removal - Train 1B Code Class 2 Residual Heat Removal System piping and components located outside containment	1-TRI-74-901-B	System Functional	VT-2	4/6/99	Satisfactory
Residual Heat Removal - Train 1A and 1B Code Class 2 and 3 Sampling System piping and components from the interface with RHR to the Code Class break.	1-TRI-74-902	System Functional	VT-2	3/4/99	Satisfactory
Waste Disposal - Code Class 2 piping and components associated with the Reactor Coolant Drain Tank Pump discharge line penetration through the containment	1-SI-77-701	System Inservice	App. J N-522	3/11/99	Satisfactory
Spent Fuel Pool Cooling - Train A Code Class 3 Spent Fuel Pool Cooling System piping and components	0-TRI-78-901-A	System Inservice	VT-2	1/6/99 Note 2	Satisfactory
Spent Fuel Pool Cooling - Train B Code Class 3 Spent Fuel Pool Cooling System piping and components	0-TRI-78-901-B	System Inservice	VT-2	11/25/98 Note 2	Satisfactory
Spent Fuel Pool Cooling - Common Code Class 3 Spent Fuel Pool Cooling System piping and components	0-TRI-78-901-S	System Inservice	VT-2	12/22/98 Note 2	Satisfactory
Spent Fuel Pool Cooling - Common Code Class 2 Spent Fuel Pool Cooling System piping and components associated with the reactor cavity cleanup containment penetration	1-TRI-78-902	System Inservice	VT-2	3/6/99	Satisfactory

TENNESSEE VALLEY AUTHORITY

Chattanooga Office Complex

1101 Market Street

Chattanooga, TN 37402

Unit: 1

Commercial Service Date: May 27, 1996

Plant: WATTS BAR NUCLEAR

P.O. Box 2000

Spring City, TN 37381-2000

Certificate of Authorization:

N/A

National Board Number for Unit:

N/A

#### Notes:

This test was completed during power escalation following the Cycle 2 outage.

This test was completed as part of the pre-outage work before removing the unit from service for the start of the Cycle 2 outage.

This test was completed during RFO1, but was inadvertently not included in the RFO1 report.

One remaining test, to be performed under 1-SI-43-901-A, will be performed on the containment penetrations associated with the Post Accident Sampling System return lines to containment prior to May 26, 1999.

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: National Board Number for Unit: N/A

N/A

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

Attached are the ASME Form NIS-2s, Report for Repairs and Replacements, for the period from September 1, 1997 to completion of the second cycle refueling outage, April 16, 1999.

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

NUMBER   CLASS   COMPONENT   DESCRIPTION	NG I	KING	CODE		
RR-02-009	–			COMPONENT	DESCRIPTION
RR-02-009	004	2-004	2	1-MISC-043-SPARE	Repair valve. Tackweld 3 bonnet to body
loop seal drain line from PRZ safety RFV: to and including 1-LT-068-0320.   RR-02-013   2   1-DRV-001-0536   Repair valve     RR-02-014   2   1-ISV-001-0542   Replace valve     RR-02-015   2   1-PPG-078   Install 2" pipe w/cap over 1" coupling and plug to stop leak.   RR-02-024   2   1-CKV-063-0725   Remove/replace seal weld on bonnet     RR-02-025   1   1-PCV-068-0334   Repair valve, replace disk     RR-02-030   1   1-PMP-068-0073   Replace cartridge seal and #1 seal on RC     RR-02-031   2   1-RFV-062-0649-S   Replace RFV     RR-02-033   1   1-RFV-068-0563   Remove/replace Pressurizer safety relief valves and some botting     RR-02-035   1   1-PCV-068-334-B   Remove/replace safety relief valve     RR-02-036   2   1-RFV-062-0626-A   Remove/replace safety relief valve     RR-02-037   2   1-CKV-003-0508   Remove/replace safety relief valve     RR-02-039   1   1-PCV-068-0340-A   Remove/replace safety relief valve     RR-02-040   1   1-PMP-068-0031   Replace cartridge seal on RCP     RR-02-041   2   1-SGEN-068-SG4   Replace upper support splice bolts on SG     RR-02-044   2   1-SGEN-068-SG1   Replace upper support splice bolts on SG     RR-02-045   2   1-PIPE-015   Replace piping due to FAC     RR-02-047   2   1-PIPE-015   Replace piping due to FAC     RR-02-0					welds
to and including 1-LT-068-0320.  RR-02-013	009	2-009	1	1-DRV-068-0566	Revise piping class from CC2 to CC1 for 3/4"
RR-02-013         2         1-DRV-001-0536         Repair valve           RR-02-014         2         1-ISV-001-0542         Replace valve           RR-02-015         2         1-PPG-078         Install 2" pipe w/cap over 1" coupling and plug to stop leak.           RR-02-024         2         1-CKV-063-0725         Remove/replace seal weld on bonnet           RR-02-025         1         1-PCV-068-0334         Repair valve, replace disk           RR-02-030         1         1-PMP-068-0073         Replace cartridge seal and #1 seal on RC           RR-02-031         2         1-RFV-062-0649-S         Replace RFV           RR-02-033         1         1-RFV-068-0563         Remove/replace Pressurizer safety relief valves and some bolting           RR-02-035         1         1-PCV-068-334-B         Remove/replace safety relief valve           RR-02-036         2         1-RFV-062-0626-A         Remove/replace safety relief valves           RR-02-037         2         1-CKV-003-0508         Remove/replace safety relief valve           RR-02-039         1         1-PCV-068-0340-A         Remove/replace valve           RR-02-040         1         1-PMP-068-0031         Replace cartridge seal on RCP           RR-02-041         2         1-SGEN-068-SG4         Replace upper support splice bolts					loop seal drain line from PRZ safety RFVs up
RR-02-014         2         1-ISV-001-0542         Replace valve           RR-02-015         2         1-PPG-078         Install 2" pipe w/cap over 1" coupling and plug to stop leak.           RR-02-024         2         1-CKV-063-0725         Remove/replace seal weld on bonnet           RR-02-025         1         1-PCV-068-0334         Repair valve, replace disk           RR-02-030         1         1-PMP-068-0073         Replace cartridge seal and #1 seal on RC           RR-02-031         2         1-RFV-062-0649-S         Replace RFV           RR-02-033         1         1-RFV-068-0563         Remove/replace Pressurizer safety relief valves and some bolting           RR-02-035         1         1-PCV-068-334-B         Remove/replace safety relief valve           RR-02-036         2         1-RFV-062-0626-A         Remove/replace safety relief valves           RR-02-037         2         1-CKV-003-0508         Remove/replace safety relief valve           RR-02-039         1         1-PCV-068-0340-A         Remove/replace safety relief valve           RR-02-040         1         1-PMP-068-0031         Replace cartridge seal on RCP           RR-02-041         2         1-SGEN-068-SG4         Replace upper support splice bolts on SG           RR-02-043         2         1-SGEN-068-SG1					
RR-02-015   2   1-PPG-078   Install 2" pipe w/cap over 1" coupling and plug to stop leak.	<del></del>				
RR-02-024   2   1-CKV-063-0725   Remove/replace seal weld on bonnet					
RR-02-024         2         1-CKV-063-0725         Remove/replace seal weld on bonnet           RR-02-025         1         1-PCV-068-0334         Repair valve, replace disk           RR-02-030         1         1-PMP-068-0073         Replace cartridge seal and #1 seal on RC           RR-02-031         2         1-RFV-062-0649-S         Replace RFV           RR-02-033         1         1-RFV-062-0649-S         Remove/replace Pressurizer safety relief valves and some bolting           RR-02-035         1         1-PCV-068-0563         Remove/replace safety relief valve           RR-02-036         2         1-RFV-062-0626-A         Remove/replace safety relief valves           RR-02-037         2         1-CKV-003-0508         Remove/replace safety relief valves           RR-02-039         1         1-PCV-068-0340-A         Remove/replace valve           RR-02-040         1         1-PMP-068-0031         Replace cartridge seal on RCP           RR-02-041         2         1-SGEN-068-SG4         Replace upper support splice bolts on SG           RR-02-043         2         1-SGEN-068-SG2         Replace upper support splice bolts on SG           RR-02-044         2         1-SGEN-068-SG1         Replace piping due to FAC           RR-02-046         2         1-PIPE-015         Replace pipin	)15	2-015	2	1-PPG-078	
RR-02-025         1         1-PCV-068-0334         Repair valve, replace disk           RR-02-030         1         1-PMP-068-0073         Replace cartridge seal and #1 seal on RC           RR-02-031         2         1-RFV-062-0649-S         Replace RFV           RR-02-033         1         1-RFV-068-0563         Remove/replace Pressurizer safety relief valves and some bolting           RR-02-035         1         1-PCV-068-334-B         Remove/replace safety relief valve           RR-02-036         2         1-RFV-062-0626-A         Remove/replace safety relief valves           RR-02-037         2         1-CKV-003-0508         Remove/replace safety relief valve           RR-02-039         1         1-PCV-068-0340-A         Remove/replace valve           RR-02-040         1         1-PMP-068-0031         Replace cartridge seal on RCP           RR-02-041         2         1-SGEN-068-SG4         Replace upper support splice bolts on SG           RR-02-043         2         1-SGEN-068-SG2         Replace upper support splice bolts on SG           RR-02-044         2         1-SGEN-068-SG1         Replace upper support splice bolts on SG           RR-02-045         2         1-PIPE-015         Replace piping due to FAC           RR-02-046         2         1-PIPE-015         Replace pipin					
RR-02-030         1         1-PMP-068-0073         Replace cartridge seal and #1 seal on RC           RR-02-031         2         1-RFV-062-0649-S         Replace RFV           RR-02-033         1         1-RFV-068-0563         Remove/replace Pressurizer safety relief valves and some bolting           RR-02-035         1         1-PCV-068-334-B         Remove/replace safety relief valve           RR-02-036         2         1-RFV-062-0626-A         Remove/replace safety relief valves           RR-02-037         2         1-CKV-003-0508         Remove/replace safety relief valve           RR-02-039         1         1-PCV-068-0340-A         Remove/replace valve           RR-02-040         1         1-PMP-068-0341         Replace cartridge seal on RCP           RR-02-041         2         1-SGEN-068-SG4         Replace upper support splice bolts on SG           RR-02-043         2         1-SGEN-068-SG2         Replace upper support splice bolts on SG           RR-02-044         2         1-SGEN-068-SG1         Replace upper support splice bolts on SG           RR-02-045         2         1-PIPE-015         Replace piping due to FAC           RR-02-046         2         1-PIPE-015         Replace piping due to FAC					
RR-02-031         2         1-RFV-062-0649-S         Replace RFV           RR-02-033         1         1-RFV-068-0563         Remove/replace Pressurizer safety relief valves and some bolting           RR-02-035         1         1-PCV-068-334-B         Remove/replace safety relief valve           RR-02-036         2         1-RFV-062-0626-A         Remove/replace safety relief valves           RR-02-037         2         1-CKV-003-0508         Remove/replace safety relief valve           RR-02-039         1         1-PCV-068-0340-A         Remove/replace valve           RR-02-040         1         1-PMP-068-0031         Replace cartridge seal on RCP           RR-02-041         2         1-SGEN-068-SG4         Replace upper support splice bolts on SG           RR-02-043         2         1-SGEN-068-SG2         Replace upper support splice bolts on SG           RR-02-044         2         1-SGEN-068-SG1         Replace upper support splice bolts on SG           RR-02-045         2         1-PIPE-015         Replace piping due to FAC           RR-02-046         2         1-PIPE-015         Replace piping due to FAC           RR-02-047         2         1-PIPE-015         Replace piping due to FAC					
RR-02-033 1 1-RFV-068-0563 Remove/replace Pressurizer safety relief valves and some bolting RR-02-035 1 1-PCV-068-334-B Remove/replace safety relief valve RR-02-036 2 1-RFV-062-0626-A Remove/replace safety relief valves RR-02-037 2 1-CKV-003-0508 Remove/replace safety relief valve RR-02-039 1 1-PCV-068-0340-A Remove/replace valve RR-02-040 1 1-PMP-068-0031 Replace cartridge seal on RCP RR-02-041 2 1-SGEN-068-SG4 Replace upper support splice bolts on SG RR-02-043 2 1-SGEN-068-SG2 Replace upper support splice bolts on SG RR-02-044 2 1-SGEN-068-SG1 Replace upper support splice bolts on SG RR-02-045 2 1-PIPE-015 Replace piping due to FAC RR-02-047 2 1-PIPE-015 Replace piping due to FAC					Replace cartridge seal and #1 seal on RCP 4
RR-02-035 1 1-PCV-068-334-B Remove/replace safety relief valve RR-02-036 2 1-RFV-062-0626-A Remove/replace safety relief valves RR-02-037 2 1-CKV-003-0508 Remove/replace safety relief valve RR-02-039 1 1-PCV-068-0340-A Remove/replace valve RR-02-040 1 1-PMP-068-0031 Replace cartridge seal on RCP RR-02-041 2 1-SGEN-068-SG4 Replace upper support splice bolts on SG RR-02-043 2 1-SGEN-068-SG2 Replace upper support splice bolts on SG RR-02-044 2 1-SGEN-068-SG1 Replace upper support splice bolts on SG RR-02-045 2 1-PIPE-015 Replace piping due to FAC RR-02-046 2 1-PIPE-015 Replace piping due to FAC RR-02-047 2 1-PIPE-015 Replace piping due to FAC			2	1-RFV-062-0649-S	
RR-02-035 1 1-PCV-068-334-B Remove/replace safety relief valve RR-02-036 2 1-RFV-062-0626-A Remove/replace safety relief valves RR-02-037 2 1-CKV-003-0508 Remove/replace safety relief valve RR-02-039 1 1-PCV-068-0340-A Remove/replace valve RR-02-040 1 1-PMP-068-0031 Replace cartridge seal on RCP RR-02-041 2 1-SGEN-068-SG4 Replace upper support splice bolts on SG RR-02-043 2 1-SGEN-068-SG2 Replace upper support splice bolts on SG RR-02-044 2 1-SGEN-068-SG1 Replace upper support splice bolts on SG RR-02-045 2 1-PIPE-015 Replace piping due to FAC RR-02-046 2 1-PIPE-015 Replace piping due to FAC RR-02-047 2 1-PIPE-015 Replace piping due to FAC	)33	2-033	1	1-RFV-068-0563	
RR-02-036 2 1-RFV-062-0626-A Remove/replace safety relief valves RR-02-037 2 1-CKV-003-0508 Remove/replace safety relief valve RR-02-039 1 1-PCV-068-0340-A Remove/replace valve RR-02-040 1 1-PMP-068-0031 Replace cartridge seal on RCP RR-02-041 2 1-SGEN-068-SG4 Replace upper support splice bolts on SG RR-02-043 2 1-SGEN-068-SG2 Replace upper support splice bolts on SG RR-02-044 2 1-SGEN-068-SG1 Replace upper support splice bolts on SG RR-02-045 2 1-PIPE-015 Replace piping due to FAC RR-02-046 2 1-PIPE-015 Replace piping due to FAC RR-02-047 2 1-PIPE-015 Replace piping due to FAC					
RR-02-037         2         1-CKV-003-0508         Remove/replace safety relief valve           RR-02-039         1         1-PCV-068-0340-A         Remove/replace valve           RR-02-040         1         1-PMP-068-0031         Replace cartridge seal on RCP           RR-02-041         2         1-SGEN-068-SG4         Replace upper support splice bolts on SG           RR-02-043         2         1-SGEN-068-SG2         Replace upper support splice bolts on SG           RR-02-044         2         1-SGEN-068-SG1         Replace upper support splice bolts on SG           RR-02-045         2         1-PIPE-015         Replace piping due to FAC           RR-02-046         2         1-PIPE-015         Replace piping due to FAC           RR-02-047         2         1-PIPE-015         Replace piping due to FAC				1-PCV-068-334-B	Remove/replace safety relief valve
RR-02-039         1         1-PCV-068-0340-A         Remove/replace valve           RR-02-040         1         1-PMP-068-0031         Replace cartridge seal on RCP           RR-02-041         2         1-SGEN-068-SG4         Replace upper support splice bolts on SG           RR-02-043         2         1-SGEN-068-SG2         Replace upper support splice bolts on SG           RR-02-044         2         1-SGEN-068-SG1         Replace upper support splice bolts on SG           RR-02-045         2         1-PIPE-015         Replace piping due to FAC           RR-02-046         2         1-PIPE-015         Replace piping due to FAC           RR-02-047         2         1-PIPE-015         Replace piping due to FAC	)36	2-036		1-RFV-062-0626-A	Remove/replace safety relief valves
RR-02-040 1 1-PMP-068-0031 Replace cartridge seal on RCP RR-02-041 2 1-SGEN-068-SG4 Replace upper support splice bolts on SG RR-02-043 2 1-SGEN-068-SG2 Replace upper support splice bolts on SG RR-02-044 2 1-SGEN-068-SG1 Replace upper support splice bolts on SG RR-02-045 2 1-PIPE-015 Replace piping due to FAC RR-02-046 2 1-PIPE-015 Replace piping due to FAC RR-02-047 2 1-PIPE-015 Replace piping due to FAC	)37	2-037	2	1-CKV-003-0508	Remove/replace safety relief valve
RR-02-041 2 1-SGEN-068-SG4 Replace upper support splice bolts on SG RR-02-043 2 1-SGEN-068-SG2 Replace upper support splice bolts on SG RR-02-044 2 1-SGEN-068-SG1 Replace upper support splice bolts on SG RR-02-045 2 1-PIPE-015 Replace piping due to FAC RR-02-046 2 1-PIPE-015 Replace piping due to FAC RR-02-047 2 1-PIPE-015 Replace piping due to FAC	)39	2-039		1-PCV-068-0340-A	Remove/replace valve
RR-02-043 2 1-SGEN-068-SG2 Replace upper support splice bolts on SG RR-02-044 2 1-SGEN-068-SG1 Replace upper support splice bolts on SG RR-02-045 2 1-PIPE-015 Replace piping due to FAC RR-02-046 2 1-PIPE-015 Replace piping due to FAC RR-02-047 2 1-PIPE-015 Replace piping due to FAC	)40	2-040		1-PMP-068-0031	Replace cartridge seal on RCP
RR-02-044 2 1-SGEN-068-SG1 Replace upper support splice bolts on SG RR-02-045 2 1-PIPE-015 Replace piping due to FAC RR-02-046 2 1-PIPE-015 Replace piping due to FAC RR-02-047 2 1-PIPE-015 Replace piping due to FAC	)41	2-041		1-SGEN-068-SG4	Replace upper support splice bolts on SG #4
RR-02-045         2         1-PIPE-015         Replace piping due to FAC           RR-02-046         2         1-PIPE-015         Replace piping due to FAC           RR-02-047         2         1-PIPE-015         Replace piping due to FAC           Replace piping due to FAC         Replace piping due to FAC	)43	2-043		1-SGEN-068-SG2	Replace upper support splice bolts on SG #2
RR-02-046 2 1-PIPE-015 Replace piping due to FAC Replace piping due to FAC Replace piping due to FAC	)44	2-044		1-SGEN-068-SG1	Replace upper support splice bolts on SG #1
RR-02-047 2 1-PIPE-015 Replace piping due to FAC	)45	2-045		1-PIPE-015	Replace piping due to FAC
	)46	2-046		1-PIPE-015	Replace piping due to FAC
	)47	2-047		1-PIPE-015	Replace piping due to FAC
RR-02-048 2 1-PIPE-015 Replace piping due to FAC	)48	2-048	2	1-PIPE-015	Replace piping due to FAC
RR-02-049 2 1-PIPE-003 Replace piping due to FAC	)49	2-049		1-PIPE-003	Replace piping due to FAC
RR-02-050 2 1-PIPE-003 Replace piping due to FAC	)50	2-050		1-PIPE-003	Replace piping due to FAC
RR-02-051 2 1-PIPE-003 Replace piping due to FAC	)51	2-051		1-PIPE-003	Replace piping due to FAC
RR-02-052 2 1-PIPE-003 Replace piping due to FAC	)52	2-052		1-PIPE-003	Replace piping due to FAC
RR-02-059 2 ELHx Replace head flange studs	)59	2-059	2	ELHx	
RR-02-061 2 1-CKV-067-0580C-A Replaced disc	)61	2-061	2	1-CKV-067-0580C-A	Replaced disc
RR-02-086 1 1068-1-68-415 Replace bolts and nuts on pipe clamp	)86	2-086	1	1068-1-68-415	Replace bolts and nuts on pipe clamp
RR-02-087 2 1-SGEN-068-SG4 Replaced secondary manway cover	)87	2-087	2	1-SGEN-068-SG4	
RR-02-088 2 1-SNUB-062-62A242 Replace snubber	88	2-088		1-SNUB-062-62A242	
RR-02-089 2 1-SGEN-068-SG2 Repair secondary manway cover	89	2-089	2	1-SGEN-068-SG2	
RR-02-090 2 1-PIPE-015 Replace 4 x 2 reducers on LP 1 and 4	90	2-090	2	1-PIPE-015	

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

Unit: 1

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

Certificate of Authorization:

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

TRACKING	CODE		
NUMBER	CLASS	COMPONENT	DESCRIPTION
RR-02-090	2	1-PIPE-015	Replace 4 x 2 reducers on LP 1 and 4
RR-02-091	2	1-PIPE-015	Replace 4 x 2 reducers on LP 2 and 3
RR-02-092	1	CRDM-13	Repair canopy seal weld
RR-02-093	2	1-PIPE-61	Add 2" tee to re-route bypass pipe around 1-FCV-061-0122
RR-02-094	2	1-PIPE-61	Add 2" tee to re-route bypass pipe around 1-FCV-061-0097
RR-02-096	2	1-SGEN-068-SG3	Replace secondary manway cover studs
RR-02-099	2	1-SNUB-003-03A482U	Replace snubber
RR-02-100	2	1-SNUB-015-4006188	Replace snubber
RR-02-101	2	1-SNUB-015-4006199	Replace snubber

	FORM NIS-2 OWI As Required	NER'S REPORT FOI I by the Provisions o	R REPAIR:	S OR REPLACE Code Section )	MENT	S	
1. Cwner	TENNESSEE VALLEY A		Date	05.29-5	.v 000000000000		
4	00 W. Summit Hill Drive, K	Cnaxville, TN	Sheet	of			
2. Plant	Watts Bar Nuclear Plant		Unit L	Jnit 1			
Р	. O. Box 2000, Spring City,	, TN, 37381	1110#	97-01456	_1 -1	SA A	
3. Work Pe	Address erformed by WATTS RAIL NO	iclear Plant	Type Cod	97-0/453 Repair Crganization i le Symbol Stamp	C. No	., Job No., etc.	
P.O.Box 2	2000 Spring City TN	3738 [	Authonza	·			
	Address		Expiration		^	Á	
4. Identifica	ation of system	Sampling		T Cale		KUL 51	29/58
(D) Appli	cable Construction Code	C. III DIV I 19 86 Utilized for Repairs		ments 1989		Car	de Case
Name of Com	noonent Name of Manufacturer	Manufacturer Senal No	National Board No	Cither Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
(Fcy)	CORPORATION	8	NONE	1-MIDE C43 STAKE VALVE	1983	Cocame/	YES
					:		
							<del></del>
				<u> </u>			
	·						<del></del>
			<u> </u> 				· · · · · ·
			<u> </u>				
7. Descripti	on of Work Repair Val	16. TACK WELD	Bonn.	ET to Budy.	(3	] TACK U	ie lds
8. Tests Co TE: St	nducted: Hydrostatic 🔾 Pi	neumatic  Nomina sureps of lists, sketches, or s 1 through 6 on this	al Operating  i Test Te  drawings m	g Pressure C	F		

3 OF 187

FORM NIS-2 (Back)
9. Remarks NPV-1
TRACKING # RR-02-04
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this $\frac{RefaiR}{renair or replacement}$ conforms to the
rules of the ASME Code, Section XI.
Type Code Symbol Stamp A / A
Certificate of Authorization No
signed # - Mech Cuga Date 6/4/98 19 98
Owner or Owner's Designee, Title  Date 6/4/8 19 98
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 Fring ESSEE and employed by
have inspected the common to
Cwners Report during the period $2-13-98$ to $6-4-98$ and state that to the home
of my knowledge and belief, the Cwher 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 makes.
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any magnes for any
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.
Company of the state of the sta
Inspector's Signature Commissions 118-6260
Inspector's Signature National Board, State, Province, and Endorsements
ate 14NE 5 1998

#### FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES. As Required by the Provisions of the ASME Code, Section III, Div. 1

Manufactured for <u>Ten</u>	Meme and Address of B	3.0	accanouga,			
Location of Installation	Watts Bar Nuclear	Plant, Un	it 2 Near	Spring, 1	Cennessee	
	(Name and Address)			3/8		3/8
			コリピモ コリアオ	(inch)	Outlet Size	(inch)
(a) Model No., (b)	N Certificate Holder's	(c) Canadian				(IriCi)
Series No.	Serial	Registration	(d) Drawing		(f) Nat'l	(g) Year
or Type	No.	No.	No.	(e) Class	Bd. No.	Built
82KK	4,6,8,12,14		2244 222			
02700	18,22,26,28.		82KK-003	3		1983
(3) #82KK	4,8,14,18,30		82KK-003 82KK-003			1983
(4)	, , , , , , , , , , , , , , , , , , , ,	<del></del>	02111-003			1983
(5)					<del></del>	
(6)						
(7)						<del></del>
(8)				<del></del>		<del></del>
(9)						<del></del>
(10)		····				
		· · · · · · · · · · · · · · · · · · ·	·			
POST A	CCIDENT SAMPLING	(CONTAINME	NT AIR)			
	(Brief description	of service for which	h equipment was	designed)		
	(Brief description	of service for which	th equipment was	designed)	<del> </del>	
Design Conditions					150	
	50 psi	110/#327 (Temperature)			150	(1)
Cold Working Pressure	50 psi	110/#327 (Temperature)			s	(1)
Cold Working Pressure .	50 psi	110/#327 (Temperature)			s	(1)
Cold Working Pressure .	50 psi	L10/ # V2.7 (Temperature) porf.		Pressure Clas	1	(
Cold Working Pressure Pressure Retaining Piece Mark No.	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	s L50	(
Cold Working Pressure Pressure Retaining Piece Mark No.	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	1	(
Cold Working Pressure Pressure Retaining Piece Mark No.	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	1	(
Cold Working Pressure Pressure Retaining Piece Mark No.	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	1	(
Cold Working Pressure Pressure Retaining Piece Mark No.	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	1	(
Cold Working Pressure Pressure Retaining Piece Mark No.	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	1	(
Cold Working Pressure Pressure Retaining Piece Mark No.	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	Rema	(
Cold Working Pressure Pressure Retaining Piece Mark No.	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	Rema	(
Design Conditions  Cold Working Pressure  Pressure Retaining Piece  Mark No.  (a) Castings	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	Rema	(
Cold Working Pressure Pressure Retaining Piece Mark No.	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	Rema	(
Cold Working Pressure Pressure Retaining Piece Mark No.	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	Rema	(
Cold Working Pressure Pressure Retaining Piece Mark No.  (a) Castings	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	Rema	(
Cold Working Pressure Pressure Retaining Piece Mark No.  (a) Castings	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	Rema	(
Cold Working Pressure Pressure Retaining Piece Mark No.	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	Rema	(
Cold Working Pressure Pressure Retaining Piece Mark No.  (a) Castings	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	Rema	(
Cold Working Pressure Pressure Retaining Piece Mark No.  (a) Castings	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	Rema	(
Cold Working Pressure Pressure Retaining Piece Mark No.  (a) Castings	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	Rema	(
Pressure Retaining Prece  Mark No.  (a) Castings	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	Rema	(
Cold Working Pressure Pressure Retaining Piece Mark No.  (a) Castings	50 psi	L10/ # V2.7 (Temperature) porf.	'F or Valve	Pressure Clas	Rema	(

\* Supplemental sheets in form of lists exerches or trawings hav be used provided (1) size is 3-1-21 k 111 - 21 information in tems 1, 2 and 5 on this Data Poport is included to leach solvet and 3) leach speet is numbered and number of speets

is recorded at top or tell, turning

MROR	NPV-1	(Back)

	PORM REV.I (Bac	-,		
Mårk Na.	Material Spec. No.	Manufacturer	Remarks	
Baiting /				
		!		
	1	!		
· .J				
		!		
	,			
d) Other Parts				
Mipple	ASME SA 213 SS 316U	Teledyre Columbia	-Sumerill	
Bonner	ASME SA 479 SS 316	Universal Cyclops		
Bønnet	ASME SA 479 SS 316	Carpenter Tech.		
Disc	ASME SA 479 SS 316	ARMO		
Body	ASME SA 479 SS 316U	Universal Evolops		
Body	ASME SA 479 SS 3161	Carpenter Tech.		
	<del></del>			

CERTIFICATE	OF COMPLIANCE	
We certify that the statements made in this report are construction of the ASME Code for Nuclear Power Plant Addenda $\frac{W-80}{W-80}$ . Code Case No.	t Companents, Section IV, Div. 1.	
Signed Target Rock Corporation		1: 7-83
(N Certificate Holder) Our ASME Certificate of Authorization No. 1947	G. Ancuzzoù Mar. of to use the tyl	Quality 12/9/83 (Does)

TVA 15 CMK

	CE	RTIFICATION OF DESIGN		
Design information on file at:		Target Rock Corporation		
Design specifications certified	by (1)	Arie F. Massey Jr.		
PE State	Reg. No	013459		
Stress analysis certified by (1	)		/	·
PE State	. Reg. No			
(1) Signature not required. Lis	त्र name only.			

CERTIFICATE OF SHOP 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 York and employed by Commercial Union Insurance
of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 19.83 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data 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 hard arrange from or properties with the properties
NEW YORK STATE COMMISSION NO. 228    Commission   ALSO COMMISSIONED IN Parts of the & Coops

Target Rock Corporation, 1956E Broadhollow Rd., P.O. Box V, Farmingdale, N.Y. 11735-0917

SUBSIDIARY, CURTISS-WRIGHT CORPORATION

#### CERTIFICATE OF CONFORMANCE

CUSTOMER:

Tennessee Valley Authority

FOR:

Watts Bar Nuclear Plant

CUSTOMER P.O. #:

93NNS-75918A C/O # 4

TRC PROJECT #:

932-507

MODEL #:

82KK-003-1

PRODUCT:

3/8" Solenoid Valve P.O. Item 001, OTY 5

S/N	Tag No.
4	1-FSV-43-207
3	1-FSV-43-434
14	1-FSV-43-202
18	1-FSV-43-208
30	1-FSV-43-436

We certify that the parts noted herein meet all the requirements of the Purchase Order, Drawing and Specifications. Further we certify that the detailed fabrication, inspection and test records quoted in the order and specifications are traceable and are on file.

TRC Quality Manual, Edition 5, Revision 8, Dated 10/13/92 is applicable.

WBN- 1960 C 1974 De 19 PAGE 3 (3) E. Champey / Date
Director, Quality Assurance

AX: (548) 203-4949

Telephone: (516) 293-3800

EASYLINK, 5106000141

3E ZOF 187



Target Rock Corporation, 1966E Broadhollow Rd., P.O. Box V, Farmingdale, N.Y. 11735-0917

SUBSIDIARY, CURTISS-WRIGHT CORPORATION

134

## CERTIFICATE OF CONFORMANCE

CUSTOMER:

Tennessee Valley Authority

FOR:

Watts Bar Nuclear Plant

CUSTOMER P.O. #:

93NNS-75918A C/O # 4

TRC PROJECT #:

932-507

MODEL #:

82KK-003-1

PRODUCT:

Current Control Unit P.O. Item 002, QTY 5

S/N's 001-005

We certify that the parts noted herein meet all the requirements of the Purchase Order, Drawing and Specifications.

Further we certify that the detailed fabrication, inspection and test records quoted in the order and specifications are traceable and are on file.

TRC Quality Manual, Edition 5, Revision 8, Dated 10/13/92 is applicable.

E. Champey Date
Director, Quality Assurance

PAGE TOF

1	-
4/	ì
•	`
L	
	_
0	•

Owner TENNE	SSEE VALLEY AU	THORITY	Date			5-18-9	8	
400 W. S	Name ummit Hill Drive, Kr	noxville, TN	Sheet	Sheet 1 of 2				***
. Plant Watts 6	Address Bar Nuclear Plant		Unit U	Init 1				
P O 80x	Name 2000, Spring City,	TN 37381			S-301	342-A		
	Address		<del></del>	Repair Org	anization F	2.O. No	Job No., etc.	
. Work Performed		g Mechanical	Type Cod	-	oi Stami	·	N/A	
	EQB-2N Address		Authoriza	ation No			N/A	
			Expiratio				N/A	
. Identification of	system	React	or Coolant	System	(RCS) 06	86	<u>-</u>	
. (a) Applicable C	onstruction Code	ASME III 19 74	Edition,	Winter	Addend	a,	N/A Cod	e Cas
	_		_	1974				
(b) Applicable E	dition of Section XI	Utilized for Repairs	or Replace	ments	1989			
. Identification of	Components Repair	red or Replaced and	Replaceme	- ent Com	ponents	<del></del>		
		· · · · · · · · · · · · · · · · · · ·	<u> </u>			1	<u></u>	ASM
			1				Repaired,	Code
Name of Component	Name of Manufacturer	Manufacturer Carial No.	National Read No.	Otherle	lantification	Year	Replaced, or	(Yes
Name of Component	Name of Wandlacturer	Manufacturer Serial No.	Board No.	TVD-0	lentification		Replacement	No)
-DRV-068-0566	Kerotest	KZ29-8 *	N/A	9954(		1976	Replacement	N/A
-DRV-068-0567	Kerotest	KZ28-18 *	N/A	TVD-0		1976	Replacement	N/A
				TVD-0	)-			
-DRV-068-0568	Kerotest	KZ24-3 *	N/A	9954(		1976	Replacement	N/A
-RTV-068-0441A	Kerotest	KZ29-10 *	N/A	9954(		1976	Replacement	N/A
		•	1	TVD-0	)-			
I-RTV-068-0569	Kerotest	KZ22-10 *	N/A	9954(	2)	1976	Replacement	N/A
7 Description of V	Vark Pavisa Pinina	Class from SC-2 to	SC 1 for 3	/4" loop :	2001 dao:		·	
. Description of V		alves 1-RFV-068-56						
	1-LT-068-032			·		J		•
	* Associate	d with N5 package >	(68-F1					
3 Tests Conducte	d. Hydrostatic □ F	neumatic  Nomir	nal Operatir	ng Press	ure 🗆			
,, 1000 Conducto	•	sure N/A	•	-		· °F		

9. Remarks Tracking No. RR-02-09	
No physical work has been performed on these valves p	
Class reclassification for subject Valves. Requirements	
reviewed and valves meet min. wall requirements. Hydr	ro-test per NB-3531 (Table NB-3531-9) have been
performed per existing NPV-1 forms for valves listed on	page 1.
CERTIFICATE OF	COMPLIANCE
We certify that the statements made in the report are corules of the ASME Code, Section XI.	rrect and this <u>replacement</u> conforms to the repair or replacement
Type Code Symbol Stamp	N/A
Certificate of Authorization No.	N/A
Signed Mount Divings Owner or Owner's Designee, Title	Date June 3 1998
CERTIFICATE OF INS	ERVICE INSPECTION
I, the undersigned, holding a valid commission issued b	y the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of <u>Tennessee</u> a	ind employed by Hartford Steam Boiler I & I Co.
of Hartford, Connecticut	have inspected the components described in this
Owner's Report during the period $9-12-97$	to $6-3-93$ and state that to the best
of my knowledge and belief, the Owner has performed e	examinations and taken corrective measures described
in this Owner's Report in accordance with the requireme	ents of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his e	•
concerning the examinations and corrective measures of	·
the inspector nor his employer shall be liable in any mai	
loss of any kind arising from or connected with this insp	ection.
Commissions Commissions	TN 3178  National Board, State, Province, and Endorsements
Date 6-3 1958	

FORM NIS-2 (Back)

TY LOVE LOVE

	AS Require	NER'S REPORT FOI I by the Provisions o	REPAIR TO	S OR REPLACE	MENT	G.	
1. Owner T	ENNESSEE VALLEY A		Date "		***************************************	garth original and	
_	W. Summit Hill Drive, K		Sheet	of		The second secon	
	Address Vatts Bar Nuclear Plant				• * • •	179 河湖	<i>:</i>
_	). Box 2000, Spring City,	TN 27004		Jnit 1	·.		
	A 4 4-			78 - 002830 Repair Organization	30 11-	(	
	ormed by WATTS BAR A		Type Cod	te Symbol Stam	p	NA-	
P.O. BOX 200	OO Spring City To	J. 37381	Authoriza	ition No	N	9	
	·		Expiration	n Date	NA		
4. Identification	<u> </u>	MAIN ST	Eam				
( )	ble Construction Code	ounzed for Repairs	or Replace	ments 1989		Cod	te Case
Name of Compo		Manufacturer Senal No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Globe VAlu	e YARWAY CORP.	8810	NONE	1-DRV-001-0536	1977	REPLACED	
GLOBE VAL	UE YARWAY CORP	6927	None	2-DRV-001-053	1977		ies
•							
<del></del>							
							_
7. Description	of Work <u>Rev. 1</u>	Replace UAL	ve	<u>.                                    </u>	!!		
		sure Not ps	Test Te	mp			
	plemental sheets in form	a i unuuuun on ims	CHOOLE IS IN	CILIDAD AA AAAL	vided ( sheet, a	(1) size is 81 and (3) each	∕₂ in. x 1 sheet

LOVO

FORM NIS-2 (Back)
9. Remarks REFERENCE COSE N-416-1
TRACKING # RR-02-13 Colors
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.
Type Code Symbol Stamp None
Certificate of Authorization No.
igned 11 M.M. M. M. S
Owner or Owner's Designee, Title Date 5/19 19 99
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of <u>Tennessee</u> and employed by <u>HSB I f I co.</u>
have inspected the components described in this
Cwner's Report during the period $\frac{6/18/98}{}$ to $\frac{6/1/99}{}$ and state that to the cest
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the control of the Contr
in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the inspector and his product.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the concerning the examinations and corrective measures described in the concerning the examinations and corrective measures described in the concerning the examinations and corrective measures described in the concerning the examinations and corrective measures described in the concerning the examinations and corrective measures described in the concerning the examinations and corrective measures described in the concerning the examinations and corrective measures described in the concerning the examinations and corrective measures described in the concerning the examinations and corrective measures described in the concerning the examinations and corrective measures described in the concerning the examinations and corrective measures described in the concerning the examinations and corrective measures described in the concerning the examination of the corrective measures described in the corrective measurement of the corrective measurement of the corrective measuremen
concerning the examinations and corrective measures described in this Cwner's Report. Furthermore, neither the inspector nor his employer shall be liable in any magner for any magner for any magner for any magner.
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.
3 - State Commenced With this hispection.
Bours m Escale
Inspector's Signature Commissions TN. 2534 I "N" A"
National Board, State, Province, and Endorsements  Qate6/119.39
Date

anufactured by	Yangay Cartaratio	n <u>, Piuc Bell, Pa</u>	Order	No. 45082
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(Name 6	Address of Hunufacturers		SEE MASTATE
anufactured for	Dravo Corporation	(Name and Address)	•	No. IFE ITT FICATION LIST
Tenness	see Valley Authori	ity .	W 8607	24K14714
	Spring City,	•		
ump or Valve Iden	nification Nuclear	Service Line Valvo		, Serial Nos.
	(222)	6300	~ 11717	·
	(Intel deser	ption of service for which equ	ipment was designed)	
	107271 07	Yanga	v Comoration	FILMED FROM BEST
	103271-07	repared by		
b) National Board	No. Hone			•
b) National Board Design Conditions material, des	No. Mone  2665 (Pressure) ign, construction, and wo	psi 70 (Temperation of the American parties with American parties	O Pressure Class  SME Code Section III. Cla	1500 PSI
b) National Board Design Conditions material, des	No. Mone  2665 (Pressure) ign, construction, and wo	psi 70 (Temperation of the American parties with American parties	O °F of Pressure Class	1500 PSI
b) National Board Design Conditions material, des	No. Mone  2665 (Pressure)  ign, construction, and wo	psi 70 (Temperaturkmanship complies with A	O °F or Pressure Class  SME Code Section III. Cla  Case No	. 1500 PSI
b) National Board Design Conditions material, des	No. Mone  2665 (Pressure)  ign, construction, and wo	psi 70 (Temperative Number of Anterial Spec. No.	O °F of Pressure Class  SME Code Section III. Cla  Case No	1500 PSI
b) National Board Design Conditions material, des	No. Mone  2665 (Pressure)  ign, construction, and wo	psi 70 (Temperative Number of Anterial Spec. No.	O °F of Pressure Class  SME Code Section III. Cla  Case No	1500 PSI
b) National Board Design Conditions material, des	No. Mone  2665 (Pressure)  ign, construction, and wo	psi 70 (Temperative Number of Anterial Spec. No.	O °F of Pressure Class  SME Code Section III. Cla  Case No	1500 PSI
b) National Board Design Conditions material, des	No. Mone  2665 (Pressure)  ign, construction, and wo	psi 70 (Temperative Number of Anterial Spec. No.	O °F of Pressure Class  SME Code Section III. Cla  Case No	1500 PSI
b) National Board Design Conditions material, des	No. Mone  2665 (Pressure)  ign, construction, and wo	psi 70 (Temperative Number of Anterial Spec. No.	O °F of Pressure Class  SME Code Section III. Cla  Case No	1500 PSI
b) National Board Design Conditions material, des material, des material, des	No. Mone  2665 (Pressure)  ign, construction, and wo  Mark No.  A5-A7	psi 70 (Temperative Number of Anterial Spec. No.	O °F or Pressure Class  SME Code Section III. Cla  Case No  Manufacturer  MOVA/Howmot	Remerks Disc
b) National Board Design Conditions material, des	No. Mone  2665 (Pressure)  ign, construction, and wo	psi 70 (Temperative Mintor 1974  Material Spec. No. AMS 5382	O °F of Pressure Class  SME Code Section III. Cla  Case No	Remerks Disc
b) National Board Design Conditions material, des material, des material, des	No. Mone  2665 (Pressure)  ign, construction, and wo  Mark No.  A5-A7	psi 70 (Temperative Mintor 1974  Material Spec. No. AMS 5382	O °F or Pressure Class  SME Code Section III. Cla  Case No  Manufacturer  MOVA/Howmot	Remerks Disc
b) National Board Design Conditions material, des rection 107	No. Mone  2665 (Pressure)  ign, construction, and wo  Mark No.  A5-A7	psi 70 (Temperative Mintor 1974  Material Spec. No. AMS 5382	O °F or Pressure Class  SME Code Section III. Cla  Case No  Manufacturer  MOVA/Howmot	Remerks Disc

This form (E00037, may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, 18.4. 10017.

3/75

### FORM NPV-1 (buck)

		Material Spec. No.			
(c) I	lolting				
	None				<del></del>
_					
				<del>}</del>	
-					
		. <del> </del>			
		<del> </del>			
(d) (	Other Parts	A STATE OF THE PARTY OF THE PAR			
(0)	Attice Lates				
	None				
	,		<u> </u>		
			<u> </u>		
	5400		•		
lydio	static test. 5400 p	si.			
		CI BURCLO LURON: OL	: nesicy	Fil	LMED FROM BES
		CERTIFICATION OF	DESIGN		YAILABLE COPY
	information on file at T.V.A. Kno	exville, Tenn.			
	NOU KOU	mitrea			
	Tilaty at a to best out the ter and annual to	T: 13:3		17:50 00	กละค พล (1865)
, Services	conceilinations centified by GOOTED	t. Dilworth	(i) Prof. Eng	. Statei <u>titi</u>	
esire	specifications centified by . Single Sile		(i) Prof. Eng	. State . State	_Reg. No
iesipa iress	i specifications certified by <u>CCOPPO</u> analysis report certified by <u>NOT_ROC</u> nature not required. List name only.		(1) Prof. Eng	. State	_ Reg. No
nesi;:	a specifications certified by Sight Sile analysis report certified by NOT ROC		(i) Prof. Eng	. State	Reg. No
resign riess 1) Sig	a specifications certified by Sight Sile analysis report certified by NOT ROC	uired	(i) Prof. Eng	. State	Reg. No.
icsign iress 1) Sig	analysis report certified by NOT ROC nature not required. List name only.	port we contect.	(1) Prof. Eng	. Scare	Reg. No.
resign aress 1) Sig Ve cei	analysis report certified by NOT ROC nature not required. List name only.	port we contect.	ation By Lo	. Scarce	Reg. No.
pesign ness 1) Sig Ve cer Date_	nappedications certified by Sign Bi- analysis report certified by NOT ROC mature not required. List name only.  Tilly that the statements made in this re- Nov. 22, 19.76 Signed	port are correct.  Yarway Corpor (Manufacturer)	ation By W.	State  Colgery  A. Volgery	Reg. No.
pesign ness 1) Sig 7e cer Date_	analysis report certified by NOT ROC nature not required. List name only.	port are correct.  Yarway Corpor (Manufacturer)	ation By W.	. Scarce	Reg. No.
pesign ness 1) Sig 7e cer Date_	nappedications certified by Sign Bi- analysis report certified by NOT ROC mature not required. List name only.  Tilly that the statements made in this re- Nov. 22, 19.76 Signed	port are correct.  Yarway Corpor (Manufacturer)	ation By W.	. Scarce	Reg. No.
resign ness 1) Sig Ve cer Date_	nappedifications certified by NOT Recognition analysis report certified by NOT Recognition not required. List name only.  Italy that the statements made in this report of Nov. 22, 19.76. Signed ficate of Authorization No. N899.	yor are correct.  Yarway Corpor (Manufacturer)  expires Oct	ation By 70 W. 28, 1977	. Scarce	Reg. No.
pesign ness 1) Sig 7e cer Date_	nappedifications certified by NOT Recognition analysis report certified by NOT Recognition not required. List name only.  Italy that the statements made in this report of Nov. 22, 19.76. Signed ficate of Authorization No. N899.	port are correct.  Yarway Corpor (Manufacturer)	ation By 70 W. 28, 1977	. Scarce	Reg. No.
resignates  1) Signates  Certif	nature not required. List name only.  Itily that the statements made in this re  Nov. 22, 19.76 Signed  Icare of Authorization No. N899  CEI-	TIFICATE OF SHOE	ation By W.  28, 1977  NSPECTION  Ational Board of Boil	A. Volger	e Vessel Insperies
resignates  1) Signates  Certif	nature not required. List name only.  Itily that the statements made in this re  Nov. 22, 19.76 Signed  Icare of Authorization No. N899  CEI-	TIFICATE OF SHOE	ation By W.  28, 1977  NSPECTION  Ational Board of Boil	A. Volger	e Vessel Insperiors
Certif	nature not required. List name only.  Itily that the statements made in this re  Nov. 22, 19.76 Signed  icare of Authorization No. N899  CEI  the undersigned, holding a valid common the State of Province of Pontsyl.  Philadelphia, Pa.	TIFICATE OF SHOP	ation By W.  28, 1977  NSPECTION  ational Board of Boil employed by Philo	A. Volger	e Vessel Inspectors ITOTS JULIUM Scribed in this Dame
Certif	nature not required. List name only.  Itily that the statements made in this re  Nov. 22, 19.76 Signed  icare of Authorization No. N899  CEI  the undersigned, holding a valid common the State of Province of Pontsyl  Philadelphia, Pa.  November 22, 19.76	TIFICATE OF SHOP	ation By W.  28, 1977  NSPECTION  ational Board of Boil employed by Philo	er and Pressur Monufacture equipment de	e Vessel Inspectors ITOTS DITUIT I scribed in this Dame
Certif	the undersigned, holding a valid commerce the State of Province of Pennsyler on November 22, 19.76  The November 22, 19.76  The November 22, 19.76  The on November 22, 19.76  The one of this equipment in accordance the second this equipment in accordance of the control of the second this equipment in accordance of the control of this equipment in accordance of the control of the second the control of the con	TIFICATE OF SHOP	ation By W.  28. 1977  PINSPECTION  ational Board of Boil employed by Philo have inspected the the best of my know on the best of my know over makes any warranteed the page makes any warranteed the page makes any warranteed the best of my know over makes any warranteed the page makes any warranteed the best of makes any warranteed the page makes and the pa	er and Pressur Minufacti e equipment de sledge and hel Coile, Section I	e Vessel Inspectors  TOTS INTUIL I  scribed in this Dan- ri, the Manufacturer II.  or implied, concern-
Certif  Reports of Billions	the undersigned, holding a valid common the State of Province of Pontsylver on November 22, 19.76  The State of Province of Pontsylver on November 22, 19.76  The State of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76	TIFICATE OF SHOP  A state that to e with the applicable Shopers. Furthermore, neithermore, neith	ation By W.  28, 1977  NSPECTION  ational Board of Boil comployed by Philo have inspected the the best of my know independent of ASME to be in the large time to be presented in the large time time to be presented in the large time time time time time time time tim	er and Pressur  A. Volger  A. Volger  Edulpment de  Redge and hel  Rolle, Section In  Respect expressed  his employer s	e Vessel Inspectors ITOTS JULIAN Scribed in this Dansel, the Manufacturer II. or implied, concernhall be liable in any
Certif  Reports of Billions	the undersigned, holding a valid commerce the State of Province of Pennsyler on November 22, 19.76  The November 22, 19.76  The November 22, 19.76  The on November 22, 19.76  The one of this equipment in accordance the second this equipment in accordance of the control of the second this equipment in accordance of the control of this equipment in accordance of the control of the second the control of the con	TIFICATE OF SHOP  A state that to e with the applicable Shopers. Furthermore, neithermore, neith	ation By W.  28, 1977  NSPECTION  ational Board of Boil comployed by Philo have inspected the the best of my know independent of ASME to be in the large time to be presented in the large time time to be presented in the large time time time time time time time tim	er and Pressur  A. Volger  A. Volger  Edulpment de  Redge and hel  Rolle, Section In  Respect expressed  his employer s	e Vessel Inspectors ITOTS JULIAN Scribed in this Osmer, the Manufacturer II. or implied, concern-hall be liable in any
Certif  Reports of Billions	the undersigned, holding a valid common the State of Province of Pontsylver on November 22, 19.76  The State of Province of Pontsylver on November 22, 19.76  The State of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76	TIFICATE OF SHOP  A state that to e with the applicable Shopers. Furthermore, neithermore, neith	ation By W.  28, 1977  NSPECTION  ational Board of Boil comployed by Philo have inspected the the best of my know independent of ASME to be in the large time to be presented in the large time time to be presented in the large time time time time time time time tim	er and Pressur  A. Volger  A. Volger  Edulpment de  Redge and hel  Rolle, Section In  Respect expressed  his employer s	e Vessel Inspectors ITOTS JULIAN Scribed in this Osmer, the Manufacturer II. or implied, concern-hall be liable in any
Certif  Reports of Billions	the undersigned, holding a valid common the State of Province of Pontsylver on November 22, 19.76  The State of Province of Pontsylver on November 22, 19.76  The State of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76  The state of Province of Pontsylver on November 22, 19.76	TIFICATE OF SHOP  A state that to e with the applicable Shopers. Furthermore, neithermore, neith	ation By W.  28, 1977  NSPECTION  ational Board of Boil comployed by Philo have inspected the the best of my know independent of ASME to be in the large time to be presented in the large time time to be presented in the large time time time time time time time tim	er and Pressur  A. Volger  A. Volger  Edulpment de  Redge and hel  Rolle, Section In  Respect expressed  his employer s	e Vessel Inspectors ITOTS JULIAN Scribed in this Dansel, the Manufacturer II. or implied, concerniall be liable in any
I, end/c Repo has c ing t	the undersigned, holding a valid commercial philage of Authorization No. N899  CEI the undersigned, holding a valid commercial philage of Ponisyl Philage philage of November 22, 19.76  Ton November 22, 19.76  Ton November 22, 19.76  Tonstructed this equipment in accordance y signing this certificate, neither the he equipment described in this Data Refer for any personal injury or property described or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property describ	TIFICATE OF SHOP  A state that to e with the applicable Shopers. Furthermore, neithermore, neith	ation By W.  28, 1977  NSPECTION  ational Board of Boil comployed by Philo have inspected the the best of my know independent of ASME to be in the large time to be presented in the large time time to be presented in the large time time time time time time time tim	er and Pressur  A. Volger  A. Volger  Edulpment de  Redge and hel  Rolle, Section In  Respect expressed  his employer s	e Vessel Inspectors ITOTS JULIAN Scribed in this Dansel, the Manufacturer II. or implied, concerniall be liable in any
I, end/c Repo	the undersigned, holding a valid commer the State of Province of Pennsyl rent on November 22, 19.76  The undersigned of Province of Pennsyl rent on November 22, 19.76  The one of this equipment in accordance of the equipment described in this Data Refer for any personal injury or property described on property described on this Data Refer for any personal injury or property described on this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any persona	TIFICATE OF SHOP  A state that to e with the applicable Shopers. Furthermore, neithermore, neith	ation By W.  28, 1977  NSPECTION  ational Board of Boil comployed by Philo have inspected the the best of my know independent of ASME to be in the large time to be presented in the large time time to be presented in the large time time time time time time time tim	er and Pressur  A. Volger  A. Volger  Edulpment de  Redge and hel  Rolle, Section In  Respect expressed  his employer s	e Vessel Inspectors ITOTS JULIAN Scribed in this Osmer, the Manufacturer II. or implied, concern-hall be liable in any
J, end/c of Bepo	the undersigned, holding a valid commercial philage of Authorization No. N899  CEI the undersigned, holding a valid commercial philage of Ponisyl Philage philage of November 22, 19.76  Ton November 22, 19.76  Ton November 22, 19.76  Tonstructed this equipment in accordance y signing this certificate, neither the he equipment described in this Data Refer for any personal injury or property described or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property describ	TIFICATE OF SHOP  A state that to e with the applicable Shopers. Furthermore, neithermore, neith	ation By W.  28, 1977  NSPECTION  ational Board of Boil comployed by Philo have inspected the the best of my know independent of ASME to open makes any warrance in the laspector not	er and Pressur  A. Volger  A. Volger  Edulpment de  Redge and hel  Rolle, Section In  Respect expressed  his employer s	e Vessel Inspectors ITOTS JULIAN I scribed in this Dansel, the Manufacturer II. or implied, concern- hall be liable in any
I, end/c Repo has c ing t	the undersigned, holding a valid commercial philage of Authorization No. N899  CEI the undersigned, holding a valid commercial philage of Ponisyl Philage philage of November 22, 19.76  Ton November 22, 19.76  Ton November 22, 19.76  Tonstructed this equipment in accordance y signing this certificate, neither the he equipment described in this Data Refer for any personal injury or property described or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property describ	TIFICATE OF SHOP  A state that to e with the applicable Shopers. Furthermore, neithermore, neith	ation By W.  28, 1977  NSPECTION  ational Board of Boil comployed by Philo have inspected the the best of my know independent of ASME to open makes any warrance in the laspector not	er and Pressur  A. Volger  A. Volger  Edulpment de  Redge and hel  Rolle, Section In  Respect expressed  his employer s	e Vessel Inspectors ITOTS JULIAN Scribed in this Osmer, the Manufacturer II. or implied, concern-hall be liable in any
I, end/c Repo has c ing t	the undersigned, holding a valid commercial philage of Authorization No. N899  CEI the undersigned, holding a valid commercial philage of Ponisyl Philage philage of November 22, 19.76  Ton November 22, 19.76  Ton November 22, 19.76  Tonstructed this equipment in accordance y signing this certificate, neither the he equipment described in this Data Refer for any personal injury or property described or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property describ	TIFICATE OF SHOP  A state that to e with the applicable Shopers. Furthermore, neithermore, neith	ation By W.  28, 1977  28, 1977  28 INSPECTION  ational Board of Boil employed by Philo have inspected the best of my know indescribed of ASME (over makes any, warranter the laspector nor kind arising from or c	er and Pressur  A. Volger  A. Volger  e equipment de  cledge and hel  Colle, Section I  nay, expressed  his employer s  connected with	e Vessel Inspectors ITOYS JUTUAL Scribed in this Dan- ei, the Manufacturer II. or implied, concern- hall be liable in any this inspection.    Concern-   C
J, end/c of Bepo	the undersigned, holding a valid commercial philage of Authorization No. N899  CEI the undersigned, holding a valid commercial philage of Ponisyl Philage philage of November 22, 19.76  Ton November 22, 19.76  Ton November 22, 19.76  Tonstructed this equipment in accordance y signing this certificate, neither the he equipment described in this Data Refer for any personal injury or property described or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property described in this Data Refer for any personal injury or property describ	TIFICATE OF SHOP  A state that to e with the applicable Shopers. Furthermore, neithermore, neith	ation By W.  28, 1977  28, 1977  28 INSPECTION  ational Board of Boil employed by Philo have inspected the best of my know indescribed of ASME (over makes any, warranter the laspector nor kind arising from or c	er and Pressur  A. Volger  A. Volger  Edulpment de  Redge and hel  Rolle, Section In  Respect expressed  his employer s	e Vessel Inspectors ITOTS JUTUAL  scribed in this Dam ei, the Manufacturer II. or implied, concerniall be liable in any this inspection.  Concernially  A 2-21- DATE

	1	181	
	Ļ	1	
	(		
	1	7	
1	L	L	
(		<u>_</u>	

. Cwner	TENNESSEE VALLEY A		Date	5/6/99			
Address Plant Watts Bar Nuclear Plant			Sheet	of nit 1			
	Name O. Box 2000, Spring City	TN 37391		# 98.02	0.7.0	~	···
	Address	· · · · · · · · · · · · · · · · · · ·	F	78 - 0 2 Repair Organization ( Symbol Stamp	P Q Na .	Job No., etc.	•
	endormed by WATTS BAR /	Name				-/4	
O BOX	2000 SPRING CITY, Address	Tw 3/381	Authorizat		N/	<u> </u>	
Idontific	ation of system	OI , WAIN STE	Expiration	Date	<u> </u>	4	
	icable Edition of Section X ation of Components Repa						\
Name of Co		r Manufacturer Senal No.	National Board No.	Other Identification	Year	Repaired, Replaced, or Replacement	ASME Cade Stampe (Yes of No)
Clobe Valv	S CON U	8733	None	1-150-001-054	2 17	REPLACE O	7 ∀€\$
Glone Value	YARWAY CORP	3730	NUNE	2-0RU (45 0505	77	ACTUALIZACIÓN PACE J-22 C	γεν' 7
7. Descri	ption of Work Revs -Re	PAIN VAINE; RE	Ul REP	CACEN Láloe.	. !	1	1
			*****				

REV.

FORM NIS-2 (Back)
9. Remarks REFLAGUE COLE CASE N-416-1
Tracking # KR-02-14 Il 6/10/93
We certify that the statements made in the statements and in the statements are statements are statements and in the statements are statements are statements are statements and in the statements are statements are statements and in the statements are statements are statements are statements are statements and in the statements are statements are statements are statements and in the statements are statemen
rules of the ASME Code, Section XI.
rules of the Asimo Code, Section (1)
Type Code Symbol Stamp NA
Certificate of Authorization No.
LOC L
Gwner or Cwner's Designee Fills  Owner or Cwner's Designee Fills
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of <u>Tennessee</u> and employed by <u>HSB I FI TO</u>
nave inspected the components described in this
and state that to the best
of my knowledge and belief, the Cwner has performed examinations and taken corrective measures described in this Cwner's Report in accordance with the
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 Co.
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.
inspection.
Bruce M Earnigh Commissions TN = 534 "T" """"
Inspector's Signature Commissions TN 2534 "T" "N" "A"  National Board, State, Province, and Endorsements
Date 5/10 19 9?

This form (E00037, may be obtained from the Order Dept., ASME, 345 E. 47 St., New York.

FORK	<b>NPV-1</b>	(loack)
------	--------------	---------

(, <u>)</u> .

T	
(c) Itulting None	
Add: #22 10000	
(d) Other Pares	Permit of the 18 of Francisco and and reader to the 18 of the 18 o
None	MAPD
	MARD COPY RETAINED
	HIGN OF DESIGN
Sann	thoje co
Hydrostatic test 5400 psi.	The state of the s
March 25, 19 77 Signed Yamay (	Corporation ny W Willes
Conflicate of Authorization No N899 expires.	Oct28, 1977
Certificate of Authorization No NO NO expires .	Oct28, 1977
Certificate of Authorization No No No expires .  CERTIFICATE Of Certification of Authorization No No No	DE SHOP INSPECTION  by the National Board of Bodies and Decrease Vescold Conserver.
Certificate of Authorization NoNO.29expires.  CERTIFICATE Of  1, the undersigned, holding a valid commission issued and/or the State of Province ofPOINSYLVANIA ofPhiladelphia, _Pa	DE SHOP INSPECTION  by the National Bland of Botto and Decrease Vessel have con- and couplinged by Philip Manufor Ivan In Matter!  have inspected the equipment do not of an the first
CERTIFICATE Of Authorization No. NO. NO. 29 expires.  CERTIFICATE Of Line and Commission issued and/or the State of Province of PODDSYLVANIA	DE SHOP INSPECTION  The die National Bland of Budies and Pressure Vessel Level of the Land and employed by Phila Manufor 1997 1997 1997 1997 1997 1997 1997 199
CERTIFICATE Of Authorization No. NO. NO. expires.  CERTIFICATE Of Line undersigned, helding a valid commission issued and/or the State of Province of PODDSYLVADIA  At Philipdelphia, Pa. 19 27, and state has constructed this equipment in accordance with the applitude signing this certificate, neither the inspector nor him, the equipment described in this Para Report, Furtherm	DE SHOP INSPECTION  The discount Planed of Bushes and Pressure Vescol Leave for a management by Philo National Part of Matter and Englished by Philo National Control of the Control of Matter of the Control of th
CERTIFICATE Of Authorization No. NO. NO. expires.  CERTIFICATE Of Line undersigned, helding a valid commission issued and/or the State of Province of PODDSYLVADIA  At Philipdelphia, Pa. 19 27, and state has constructed this equipment in accordance with the applitude signing this certificate, neither the inspector nor him, the equipment described in this Para Report, Furtherm	DE SHOP INSPECTION  Thy the National Plant of Builts and Pressure Vescol Item over a managed ped by Philo Manufor Lun and supplyed by Philo Manufor Lun and substantial process of the equipment do substantial the Post of my knowledge and belief, the Manufacture the block of my knowledge and belief, the Manufacture is the best of my knowledge and belief, the Manufacture is supplyed to the Inspector me my expressed or institute conserver, neither the Inspector me my eargney whill he liable in an
CERTIFICATE Of Authorization NoNO.29	DE SHOP INSPECTION  by the National Board of Bodies and Pressure Vessel have considered implayed by Philad Manufacture and employed by Philad Manufacture do not and or there for that to the best of my knowledge and belief, the Manufacture health Subsections of ASM. Code, Section III.  his employer notices any warranty, expressed or implicate conserver, neither the Inspector nor my employer shall be liable in an analytic and arising from a connected with this inspection.
CERTIFICATE Of Authorization NoNO.29	OF SHOP INSPECTION  The discount Point of Bodies and Pressure Vessel Level of the Land of Bodies and Pressure Vessel Level of the Land of the Conference of Land of the Conference of the Land of the

1. Owner	TENN	ESSEE VALLEY AU	JTHORITY	Date	07/07/98			
4	00 W. S	Name Summit Hill Drive, K	noxville, TN	Sheet	of			-
2. Plant	Watts	Address Bar Nuclear Plant		Unit	Unit 0			
P. O. Box 2000, Spring City, TN, 37381			TN, 37381	Work C	Order 98-007689-0	00		
3. Work Pe	erformed	Address d by Mech. Maint. V	NBN	Type Co	Repair Organization Fode Symbol Stamp	P.O. No.	, Job No., etc.	•
P.O. Box 2000, Spring City, TN. 37385			Name 5	Authoriz	zation No	_	× / 20	,
Address				Expirati	on Date	<u>'</u>	44 x x	
4. Identific	ation of	system 078, S	SPENT FUEL PIT CO	•				
(b) Appl	licable E	dition of Section XI	SEC III, CL. 2 19 71 Utilized for Repairs of red or Replaced and	r Replac	cements 1989	a, <u>N</u>	/A Cod	de Case
Name of Co	mponent	Name of Manufacturer	Manufacturer Serial No.	Nationa Board N	·· .	Year Built	Repaired, Replaced, or Replacement	,
PIPING		N/A	N/A	N/A	NA	NA	REPLACED	NO
	<del></del>		*					
			>					
	· · · · · · · · · · · · · · · · · · ·							
	·							
				and nlug	to stop leak.			
7. Descrip	tion of V	Vork Install 2" pipe	w/cap over 1" cpig.	and plag	•			

FORM NIS-2 (Back)
9. Remarks Tracking # R2-02-15 Applicable Manufacturers Data Reports to be Attached
CODE CASE N-416-1 WELDING
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp
Certificate of Authorization No.
Signed James R Could Forman Date 7:24.98 19
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 Texnessee and employed by HSB TET to
of HARTFORD coun have inspected the components described in this
Owner's Report during the period $\frac{7/7/98}{}$ to $\frac{7/24/98}{}$ 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 W Earney Commissions TN 2534 Inspector's Signature National Board, State, Province, and Endorsements
Bruce M Earnigh Commissions TN 2534 Inspector's Signature National Board, State, Province, and Endorsements  Date 7/24 19 98
Bruce M Earnish Commissions TN 2534 Inspector's Signature National Board, State, Province, and Endorsements  Date 7/24 19 98

《 3 八十八

#### WO # 98-008416-001

	FORM NIS-2 OW! As Required	NER'S REPORT FOR by the Provisions of	REPAIL	RS OR REPLACEM ME Code Section X	AENT:	S	
1. Owner TENN	ESSEE VALLEY AL	UTHORITY	Date	09/20/98			
400 W. S	Name Summit Hill Drive, K	Sheet	of	1.2.2.			
2. Plant Watts	Address			Unit 1			
P. O. Box 2000, Spring City, TN, 37381			MMG 9	8-008416-001			
3. Work Performed by WATTS BAR NUCLEAR PLANT			<del></del>	Repair Organization Pode Symbol Stamp	P.O. No.	, Job No., etc.	
P.O. BOX 2000, S	PRING CITY, TN 3	Name 7381		zation No N/A	10//		
,	Address			<del></del>			
4. Identification of	system SIS, SAF	ETY INJECTION SY	Expirati STEM, 0	on Date N/A 63			
(b) Applicable E	dition of Section XI	ASME SEC. III 19 74 Utilized for Repairs red or Replaced and	or Replac	cements 1989	a, NO	NE. Cod	de Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationa Board N	I Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-CKV-063-0725	INTERNATIONAL	GD187-B.C47649 CD787	N/A	NONE	1987	REPAIR	YES
1-CKV-063-0725	ROCKWELL INTERNATIONAL	CD787	N/A	BONNET	1987	REPAIR	YES
		17					
7. Description of V	Vork REMOVE/RE	PLACE SEAL WELD	ON BOI	NNET.			
8. Tests Conducted	d: Hydrostatic 🛭 P Other 🗓 Press	neumatic  Nomin		ting Pressure X st Temp 400	°F		
, , , , , , , , , , , , , , , , , , ,	monnation in item	of lists, sketches, or s 1 through 6 on this of sheets is recorded	report is	included on each s	vided (	(1) size is 8 and (3) eac	½ in. x h sheet

#### WO # 98-008416-001

FORM NIS-2 (Back)
9. Remarks
Applicable Manufacturer's Data Reports to be Attached
TRACKING # RR-02-24 280 9/21/90
REF. CODE CASE N416-1
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.
Type Code Symbol Stamp NONE.
Certificate of Authorization No. NONE.
Signed Date 4-5 19 99  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 and employed by
of Hartford, CT have inspected the components described in this
Owner's Report during the period $9-2/-97$ to $4-5-99$ 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.
Stephen Commissions TN 2533
Anspector's Signature National Board, State, Province, and Endorsements
Date

	181
٠	A H
	23
	PAGE

	<del></del>	Alva - Check	Nominal I	Watte Bar Nu		ant Sue	8. ((८) () () () ()
	Series No of Type	Serial No.	Registration 263	(d) Orewine Ma	(e) Clese	(f) Net I Bd. Ng	(g) Yeer Built
	(1) <u>B 36 174 F 316 3</u>	IT2 CD787-CD78	. МА	BH 1607432	?	NA	1987
	(3)						
	(6)						
	(7)						
	(9)					· <del>-</del> · · · · · ·	
	(10)		-			<del>-</del> · · · ·	
5		(Sright descine		Assembly Lot	No. 11	<u>li</u> gr,	:
	ACD Drawing No.	C-)1607412-Nor	18		<del></del>	<del></del> .	
6	Design Conditions	2247 per	11000	- F or Valve Pres	eure Cleas	1500	(1)
, A	Cord Working Freesure Pressure Retaining Place		of 100°F				
٠ •				1,91-00-4"			
•	Merk No	Materia	Spec No	Manufactur	••	Remerk	•
	Disks G1308/1			-		<del></del>	
	Disks C0823/1			Consolida Consolida	ted	Heat Rear in	
ζ:						<del></del> '''	
<u>.</u>							
	· · · · · · · · · · · · · · · · · · ·						•
						• "	
					···		
	(b) Forgings		· · · · · · · · · · · · · · · · · · ·		•	•	
	Bodles SKSOL HT#2	SAL9ZF	116	Texas For	<u> </u>	LTV Stee	
	Bodles FKE	SALBQE	16	Trinity Fo	orge .	865030 Carpente	
_						55474	<del></del>
<u>_</u> -	For manualty operated vi	etyes only.					
	Supplemental sheets in fo						

		1	
Ici Barling			10/ 9.11.93
NA		w04	B-003416-00
	<del></del>	9	3-003412-00
	<del></del>	· · · · · · · · · · · · · · · · · ·	
(d) Other Parts			
Covers CO790	SA479TJ16	Coulter	Slater Heat
			89049
Scalneld_Filler	SFAS. 9ER 308	Teledyne McKny	Heat C-3066
/			
			<b>.</b>
Phydrostatic rest 5400 pm	Otak Offerentiet rest pressure	1600	3
	CERTIFICATE OF		
	CERTIFICATE OF	T and that this pump, or valve, (	
Advers - Springer Trees	actional uner a some	Open (1)  Use the (1)	8/11/89
Modernia 2 White La \land	actional uner a some	or Miles Heart	4 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
Paned LiBockwall Intern In Continues Income Aur ASME Contricate of Authoris	CENTER ATION	OP DESIGN	8/12/90 Comm
Agned L-BOCKMELL INTERN THE Continues to	CENTER ATION	Or Design  Sulphur Springs, Tex	8/12/90 Comm
Agned L-BOCKMELL INTERN THE Continues inclose to the Continues inclose	CEATEMATION  COCKUELL International  OCKUELL International	One (N)  One	8/12/80 Comm
Design information on fire at Resign	CENTENTATION  CENTENTATION  COCKWELL International  COCKWELL International  COCKWELL International  COCKWELL International	One (N)  One	8/12/80 Compiler 8/12/80
Design information on fire at Ritress analysis report (Class 1 or Resign specifications certified by E StatePA	CENTENTATION  CENTENTATION  COCKUELL Internacional  CO	OF DESCM  Sulphur Springs, Tex.	8/11/89 Comm
Design information on file et Resign information on file et Resign information on file et Resign specifications cartified by Estate PA Resign analysis contitied by (1)	CERTIFICATION  CERTIFICATION  COCKUELL International  COCKUELL International  COCKUELL International  COCKUELL INTERNATION  COCKUELL	OF DESCM  Sulphur Springs, Tex.	8/11/89 Comm
Design information on file at State  Estate  Control of the at State  Design information on file at State  Estate  Design specifications certified by Estate  Estate  Research of the state	CONTRACTOR NO. 1814 10 10 10 10 10 10 10 10 10 10 10 10 10	OP DESCM  Sulphur Springs, Tex. able	8/11/89 Comm
Design information on file at State  Paramatical and Authorized State  Paramatical and Authorized State  Paramatical and Paramatical State	CONTRACTOR NO. 1814 10 10 10 10 10 10 10 10 10 10 10 10 10	OP DESCM  Sulphur Springs, Tex. able	8/11/89 Comm
Design information on file at Stress analysis report (Class 1 or Design specifications certified by EState PA Rose State Rose saretysis certified by (1)	CENTENTATION  CENTENTATION  COCKWELL International  COCKWELL International  COCKWELL International  COCKWELL International  COCKWELL INTERNATION  COCKWELL	Open (1)  Open (2)  Open (	8/12/80 Compiler 8/12/80
Design information on file at Resident process analysis report (Clear 1 or Continues analysis continues continues by Continues analysis continues or Continues analysis continues by (1)  The State Residual Continues or Continues analysis continues by (1)  The State Residual Continues or Continues analysis continues by (1)  The State Residual Continues or Continues analysis continues by (1)  The State Residual Continues analysis continues or Continues analysis continues analysis continues by (1)	CENTERCATE CF SH	OP DESCHOOL	8/11/80 Ome
Design information on file at Resign information on file at Resign information on file at Resign specifications certified by E StatePA	CENTENCATE CF SH	OP MEPSCHON  National Board of Boiler and Pr	8/11/80 Ome
Design information on file at Resident and Authorism Paragraphicate at Authorism Paragraphicate at Authorism Paragraphication certified by E State PA Residence analysis certified by (1) Residence analysis certi	CENTENCATE OF SHE	OP NATION  National Board of Boiler and Present amployed by Victoria	essure Vessel Inspectors Lloyds' Ins. Co.
Agned ROCKMELL INCERN THE CONTINUES PRINCES AND ASME Continues of Authorization on five at the second continues of the second continues of the second continues of the second continues of the undersegned, holding a vent of the State or Province or State o	CENTENCATE OF SHE	OP MERCHON  National Board of Boiler and Prand employed by VICCOTIA  the pump, or veive described.	essure Vessel Inspectors Lloyds' Ins. Co.
Design information on file at Resign information on file at Resign information on file at Resign specifications certified by E State PA Resign analysis certified by (1) E State PA Resign surely are certified by (1) E State PA Resign analysis certified by (1) E State PA Resign analysis certified by (1) E State PA Resign analysis certified by (1) E State PA Resign and the State or Province of House and the State or Province of House Con Texas	CENTENCATE OF SHE	OP PARTECTION  National Board of Boiler and Prand employed by VICCOTIA the pump, or valve, described of my knowledge and bellef, the N	essure Vessel Inspectors Lloyds' Ins. Co.
Design information on fire at Resign information on fire at Resign information on fire at Resign apacifications certified by (1) State PA Resign analysis certified by (1) State Resign and the State or Province of Resign and the State of Province of Resign and the State	CENTENCATE OF SHIP  CENTEN	OP DESIGN  Sulphur Springs, Tex.  able  OP MAPECTION  National Board of Boiler and Prand employed by Victoria the pump, or velve, described of my knowledge and belief, the Nie.  Section III.	essure Vessel Inspectors Lloyds' Ins. Co. in this Data Report on Certificate Holder hea con-
Design information on fire at Resign information on fire at Resign information on fire at Resign information on fire at Resignation and resignation of the at Resignation of the state of PA Resignation of the state of PA Resignation of the state of PA Resignation of the State of Pavillage of the unusual of the State of Province of the Unusual COL Taxas Incided this pump, or velve, in the unusual of the State of Province of the Unusual COL Taxas Incided this pump, or velve, in the unusual of the State of Province of the Unusual COL Taxas Incided this pump, or velve, in the unusual of the State of Province of the Unusual COL Taxas Incided this pump, or velve, in the unusual of the State of Province of the Unusual COL Taxas Incided this pump, or velve, in the unusual of the State of Province of the Unusual COL Taxas Incided the pump, or velve, in the Unusual Octobries of the Unusual Octo	CENTENCATE CF SH  CENTENCATE C	OP DESIGN  Sulphur Springs, Tex. able  OP SISPECTION  National Board of Boiler and Pr and employed by VICCOTIa the pump, or velve, described to finy knowledge and bellef, the Ni e. Section III.	essure Vessel Inspectors Lloyds' Ins. Co. in this Date Report on Certificate Holder hes con-
Design information on file of Resign specifications confiled by Resign specification of Resign Resign specification of Resign Re	CENTENCATE OF BH  CONTENCE OF BH	OP DESIGN  Sulphur Springs, Tex.  able  OP MEPECTION  National Board of Boiler and Pr  and employed by Victoria the pump, or valve, described to fimy knowledge and bellef, the Ni e. Section life.  The inspector nor his employent bulled the inspector nor his employent bulled with any warranty.	essure Vessel Inspectors Lloyds' Ins. Co. In this Data Report on Certificate Holderhee con-
Design information on file of Resign specifications confiled by Resign specification of Resign Resign specification of Resign Re	CENTENCATE OF BH  CONTENCE OF BH	OP DESIGN  Sulphur Springs, Tex.  able  OP MEPECTION  National Board of Boiler and Pr  and employed by Victoria the pump, or valve, described to fimy knowledge and bellef, the Ni e. Section life.  The inspector nor his employent bulled the inspector nor his employent bulled with any warranty.	essure Vessel Inspectors Lloyds' Ins. Co. In this Data Report on Certificate Holderhee con-
Design information on fire at Resign specifications certified by Resign specification of Resign and the State or Province of Resign of Hauston France of Resign Structed this pump, or velve, In the equipment described in this manner for any personal injury of the specific of the pump of the specific of the pump.	CENTENCATE OF BH  CONTENCE OF BH	OP DESIGN  Sulphur Springs, Tex.  able  OP MEPECTION  National Board of Boiler and Pr  and employed by Victoria the pump, or valve, described to fimy knowledge and bellef, the Ni e. Section life.  The inspector nor his employent bulled the inspector nor his employent bulled with any warranty.	essure Vessel Inspectors Lloyds' Ins. Co. In this Data Report on Certificate Holder has con-
Design information on fire at Resign specifications certified by Resign specification of Resign and the State or Province of Resign of Hauston France of Resign Structed this pump, or velve, In the equipment described in this manner for any personal injury of the specific of the pump of the specific of the pump.	CENTENCATE OF BH  CONTAINED  CONTAIN	OP DESIGN  Sulphur Springs, Tex.  able  OP MEPECTION  National Board of Boiler and Pr  and employed by Victoria the pump, or valve, described to fimy knowledge and bellef, the Ni e. Section life.  The inspector nor his employent bulled the inspector nor his employent bulled with any warranty.	essure Vessel Inspectors Lloyda' Ins. Co. in this Data Report on Certificate Holderhes con- id or implied, concerning ver shall be liable in any ed with this inspection
Design information on file of Resign specifications confiled by Resign specification of Resign Resign specification of Resign Re	CENTENCATE OF BH  CONTENCE OF BH	OP DESIGN  Sulphur Springs, Tex. able  OP MEPECTION  National Board of Boiler and Prand employed by VICCOTIa the pump, or velve, described to finy knowledge and belief, the Nile. Section III.  Tex. any warranty, supressed their the inspector nor his employent bind urising from or connections.  Tex. 184 States From the Connections of t	essure Vessel Inspectors Lloyds' Ins. Co. in this Data Report on Certificate Holderhes con- id or implied, concerning ver shall be liable in any ed with this inspection

P4GE

30

	nor TENNESS	SEE VALLEY AUTH	HORITY	Date	03/23	3/1999			
UW		Name Imit Hill Drive, Kno		She	et	of			
		Address r Nuclear Plant		Unit	Unit	1			
Pla		Name 000, Spring City, T	N, 37381	Cor	tract 124	1878 pair Organization P.O	No. le	nh No etc.	
10/	ork Performed b	Address		Тур	e Code	Symbol Stamp	N/A		<u></u>
		Nar Rd, E. Farmingdale	ne , NY 11735	Aut	horizatio	n No N/A			
	e work performed	Address.		Ex	piration C	ate N/A			
. Id	entification of sy	stem 068, React	or Coolant System	1					
(1	n) Applicable Ed	nstruction Code A	Itilized for Repairs	s or F	Edition,	ents 1989			
3. IO	dentification of C	Components Repair	ed or Replaced ar	nd Re	placeme	nt Components			ASME Code
					National	Other Identification	Year Built	Repaired, Replaced, or Replacement	Stamp (Yes No)
Na	me of Component	Name of Manufacturer Target Rock	Manufacturer Serial N 5	Ю.	Board No.	Model 83A	83	repaired	Y
1-F	PCV-68-340A-A		8			P/N 300891-1	97	replacement	Y
	main disc	Target Rock				P/N 200783-1	85	replacement	N
-	main seat	Target Rock	n/a			P/N 202918-1	95	replacement	N
-	insert pilot disc	Target Rock	n/a			P/N 202910-1	-	<del> </del>	-
-							- 00	repaired	+-
1.	PCV-68-0334-B	Target Rock	4			Model 83A	83	Tepalied	ļ
$\vdash$									
-									
-		Work serial numb	or 5 replaced ma	in se	at disc &	insert & pilot dis	c; sea	al welded bo	oth va
(7	. Description of	vvork senai numb	Ci 3 - Topiaooa iiio						
		•	essure <u>2235</u>	<sup>}</sup>	131 103	Cromp <u>uniaren</u>		ed (1) size i	s 8½ i
	ર: Supple 11 in., is num	mental sheets in fo	rm of lists, sketch				ch she	et, and (3)	each s

FORM NIS-2 (Back)
9. Remarks Tracking Number RR-02-025  Applicable Manufacturers Data Reports to be Attached
Valve serial number 4 was installed under WO 98-012709-000.
Valve serial number 5 was installed under WO 98-013995-000.
The second of th
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.
Type Code Symbol Stamp n/a
Certificate of Authorization No
Signed June Casus ISI SIECIALIST Date 6/3 19 99  Owner optionner'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 Texpessee and employed by HSB It I ca.
of Harl Ford CT. have inspected the components described in this
Owner's Report during the period $\frac{9/30/98}{}$ to $\frac{6/7/99}{}$ 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 W Earnigh Commissions TN 2534 I National Board, State, Province, and Endorsements
National Board, State, Province, and Endorsements
Date
1

FORM NPV-1	N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR P		
	As Required by the Provisions of the ASIAE Code, Section III Of	YUMPS C	A VALVES
	of the ASIAE Code Section III of	des d	

Ne		and M Certificate - Authority Co. Perchase of Owner Lat Plant, D	nlet Size3 (inc		(f) Nect.	Built
Ne	Certificate Holder Serial No.	Naminal II  13 (c) Canadian Registration	niet Size3 (inc (d) Orewing No.	n) Ou	(f) Nect.	(g) Yes Built
Ne	Certificate Holder Serial No.	Naminal II  13 (c) Canadian Registration	niet Size3 (inc (d) Orewing No.	n) Ou	(f) Nect.	(g) Yes Built
3 Na.	Serial No.	"3 (c) Canadian Registration	(d) Orawing Na.		(f) Nact.	(g) Yes Built
3 Na.	Serial No.	"3 (c) Canadian Registration	(d) Orawing Na.		(f) Nact.	(g) Yes Built
ype	Serial No.	Registration	Na.	(e) Class .	(f) Nect. Bd. Ng.	Built
	7		Na.	(e) Class .	(f) Nect.	Built
	5 5			(e) Class	Ba. Na.	
	(5) 6		82111-901	Ţ		
			1 1000			1983
			- Wall	<del>}776</del> 4	<del>(1152</del>	<b>_</b>
			,		1133	
	<del>_</del>					
					-FILMED F	ROM B
	_				AVAILA	SLE CO
	?RESSURI	ZED RELIEF PO	OWER RETUER O	7.1 7 <del>2</del>	• • • • • • • • • • • • • • • • • • • •	
	(Brief describe	ion of service for what	7	- AL / C		
				lued)		
- N-		<del></del>				
t red.	Material :	Sac. No.	Manufacture	H	Remarks	
						{
						,
				7.		
				1 25	CZZIICZD	1
		<u> </u>		Ds.	57525	1
				DES	3. 3.	1
			<u> </u>	1	08/1992	<del>                                     </del>
			·			<del>/</del>
				0	2377:	/
						<del></del>
j	•					
ſ	15ME 61 10	2 221/2			<del></del>	
		4. EJIOL	Carmo			
	ASME SA 18		Carmel Forg	ζe		
	ADIE 3A 18		Carmer tots	<u> </u>		<del></del>
	ASTRE SA 18			ge		
	ADIE SA 18		Carmer tots	ζe		
	ADRE SA 18		Carmer tots	ge		
	ADRE SA 18		Carmer tots	ge		
		tions 2485 psipsi at ining Places	tions 2485 psi 680  Pressure psi at 100°F.	CRESSURIZED RELIEF POWER RELIEF OF MACHINER WAS DESCRIBED TO MACHINER WAS DESCRIBED.	Claret description of service for which equipment was designed)  tions 2485 pss 680 "F or Valve Pressure Class - (Femperature) psi at 100°F.  Pressure psi at 100°F.  It No. Material Spac. No. Manufacturer  DEC	tions 2485 680 "F or Valve Pressure Class 1707  Pressure psi at 100"F.  In No. Material Spec. No. Manufacturer Remarks  Pressure Districtions

(10/77)

<sup>\*</sup> Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 3-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets

Mark No.	Material Spec. No.	Manufacturer	Remerks
iting	•		
all A			
			•
Other Parts	ASME SA479 316	Joslyn Stainless	Sreel
onnet ain Disc	ASME SA 479 SS347	Joslym Stainless	Steel
dicator Tube	ASME SA 479, SS316	Universal Cyclops	
lange	ASME SA 182, 316		Universal Cyclors
cat Insert	ASME SA 479, 316L	Joslyn & Currents	r Tech.
			FILMEDERO
			FILMED ERC AVAILABL
restance test 6150	out. Class Differential rest pressure	4510	FILMAILABL
nuction of the ASME (	Topocation	- Date  - Resolution (C. Abruzzo, Mgr. of	///3/3/3 Quality 12/9/83
ruction of the ASME ( note Winter 1980) (Class) ad Tarzet Rock (N Cartificate)	Corporation  Code Case No  Corporation  Readert 1947 PRA	- Date  - Resolution (C. Abruzzo, Mgr. of	1/12/33
ruction of the ASME ( note Winter 1980) (Class) at Tarzet Rock (N Cartificate)	Code for Nuclear Pawer Plant Con  Code Case No.  Corporation  Holdert  Taller  Toda	Oate — Date — Oate — Oa	///3/3/3 Quality 12/9/83
nuction of the ASME ( note Winter 1980) (Class) and Tarzet Rock (IN Cortificate of Auto	Corporation  Corporation  L947  CERTIFICATION	OF DESIGN	///3/3/3 Quality 12/9/83
riction of the ASME ( Inda Winter 1980) (Close) and Tarzet Rock (IN Cortificate of Auc	Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Target Roci	OF DESIGN	///3/3/3 Quality 12/9/83
riction of the ASME ( Inda Winter 1980) (Close) and Tarzet Rock (IN Cortificate of Auc	Corporation  Corporation  L947  CERTIFICATION	OF DESIGN	///3/3/3 Quality 12/9/83
ruction of the ASME ( ruction of the ASME ( ruction (	Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Target Roc  1 coly) on file at Target Roc  Manual Targe	OF DESIGN  & Corporation	///3/3/3 Quality 12/9/83
ruction of the ASME ( Inda Winter 1980)  ICASES  ICASES  ICASES  (IN Cortificate of Auct  ICASES  ASME Cortificate of Auct  ICASES  IC	Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Target Roc  1 coly) on file at Target Roc  Manual Targe	OF DESIGN  & Corporation	///3/3/3 Quality 12/9/83
ruction of the ASME ( Inda Winter 1980)  ICARRI  ICARR	Corporation  Corporation  Corporation  Horization No. 1947  Target Roc  a 1 only) on file at Target Roc  Ied by (1) Marrin V.  Reg. No. 013995	OF DESIGN  Corporation  Miller	///3/3/3 Quality 12/9/83
ruction of the ASME (note 1980)  INTERE 1980  TATZET ROCK  (IN Cartificate of Auctorial Control Contro	Corporation  Corporation  Corporation  Horization No. 1947  Target Roc  a 1 only) on file at Target Roc  Ied by (1) Marrin V.  Reg. No. 013995	OF DESIGN  Corporation  Miller	///3/3/3 Quality 12/9/83
ruction of the ASME ( Inde Winter 1980)  ICASES  ICASE	Corporation  Corporation  Corporation  Horization No. 1947  Target Roc  a 1 only) on file at Target Roc  Ied by (1) Marrin V.  Ang. No. 013995  (1) Marrin Gla  Reg. No. 31940	OF DESIGN  Corporation  Miller	///3/3/3 Quality 12/9/83
ruction of the ASME ( Inda Winter 1980)  ICASES  ICASE	Corporation  Corporation  Corporation  Horization No. 1947  Target Roc  a 1 only) on file at Target Roc  Ied by (1) Marrin V.  Ang. No. 013995  (1) Marrin Gla  Reg. No. 31940	OF DESIGN  Corporation  Miller	///3/3/3 Quality 12/9/83
ruction of the ASME ( Inde Winter 1980)  ICASES  ICASE	Corporation  Corporation  Corporation  Horization No. 1947  Target Roc  I conty) on file at Target Roc  Ied by (1) Marrin V.  Reg. No. 013995  (1) Marrin Gla  Reg. No. 31940  List name only.	OF DESIGN  Corporation  Miller	///3/3/3 Quality 12/9/83
ruction of the ASME ( Inda Winter 1980)  ICASES  ICASE	Corporation  Corporation  Corporation  Horization No. 1947  Target Roc  a 1 only) on file at Target Roc  Ied by (1) Marrin V.  Ang. No. 013995  (1) Marrin Gla  Reg. No. 31940	OF DESIGN  Corporation  Miller	///3/3/3 Quality 12/9/83
ruction of the ASME (note 1980)  INTERE ROCK  (IN Cortificate of Auctorial Control Con	Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Ig47  Target Roc  I only) on file at Target Roc  Ied by (1)	OF DESIGN  Corporation  Miller  darone  HOP INSPECTION	Quality 12/9/83  Out expires 12/9/83  (Desired)
ruction of the ASME ( Inda Winter 1980)  ICARRET  ICARRET	Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Ig47  Target Roc  I coly) on file at Target Roc  Ied by (1)	OF DESIGN  Corporation  Miller  darone  HOP INSPECTION	Quality 12/9/83  Out expires 12/9/83  (Desired)
ruction of the ASME ( Inda Winter 1980)  ICARRET  ICARRET	Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Ig47  Corporation  Corporation  Target Roc  Target Roc  Ig40  Marrin V.  And No. 013995  (1) Marrin Gla  Reg. No. 31940  List name only.  CERTIFICATE CF Si  g a valid commission issued by the New York	OF DESIGN  Corporation  Corporation  Millet  HOP INSPECTION  e Netional Board of Soiler and anneloyed by Commerciant	Pressure Vessel Inspectors
ruction of the ASME (note 1980)  Inde Winter 1980 (Date)  IN Cartificate of Automotion on file of Automotion o	Corporation  Corpo	OF DESIGN  & Corporation  Miller  datane  HOP INSPECTION  e National Board of Soiler and employed by Commerciate or the pump, or valve, describe	Pressure Vesset Inspectors 21al Union Ins.  Id in this Data Report on
ruction of the ASME (note 1980)  Inde Winter 1980 (Deser)  Inde Tirzer Rock (Note Rock (	Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Ig47  Target Roc  I coly) on file at Target Roc  Ied by (1)	Date  Date  R. Revolution  G. Abruzzo, Mgr. of Carporation  k. Corporation  Miller  HOP INSPECTION  e. National Board of Soiler and amployed by Commerciate of the pump, or valve, describe st of my knowledge and belief, the	Pressure Vesset Inspectors 21al Union Ins.  Id in this Data Report on
ruction of the ASME (note 1980)  Inde Winter 1980 (Date)  IN Cartificate of Automation on file and information on file are analysis report (Classian specifications cartificate with a sensitive cartified by State Williams analysis cartified by State Will Signature not required.  The undersigned, holding the State or Province of Boston, Williams analysis cartified by State will be state or Province of Boston, Williams analysis cartified by State will be state or Province of Boston, Williams analysis cartified by State will be state or Province of Boston, Williams analysis are provinced than pump, or value of the state of Province of Boston, Williams analysis analysis are provinced than pump.	Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Ig47  Target Roc  If any on file at	Date  Date  R. Revolution  G. Abruzzo, Mgr. of (1)  Use the 1997  K. Corporation  Miller  darone  HOP INSPECTION  e National Board of Soiler and and employed by Commerce and employed by Commerce and employed provided and belief, the decrease are warranty, expression of the pump. Or valve, described, Section III.	Pressure Vessel Inspectors Lal Union Ins. Red in this Data Report on N Cartificate Holder has concerning
ruction of the ASME (note 1980)  Inde Winter 1980 (Case)  Ind Target Rock (IN Cartificate ASME Cartificate of Automotion on file as analysis report (Classian specifications cartificate Tall (Classian specifications cartified by State YY)  Signature not required.  The undersigned, holding the State or Province (Boston), Manual Manual Cartificate (Classian State) (Classian Cartificate) (Cl	Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Ig47  Formation No. 1947  Target Roc  Ig40  Ig47  Target Roc  Ig40  Ig47  Ig47  Ig40  Ig47  Ig40  Ig47  Ig40  Ig40  CERTIFICATE CF Si  Ig40  CERTIFICATE CF Si  Ig40  CERTIFICATE CF Si  Ig40  Ig40  CERTIFICATE CF Si  Ig40  Ig40	Date  Date  R. Revolution  R. Revolution  R. Revolution  R. Revolution  R. Revolution  R. Corporation  R. Corporation  Miller  HOP INSPECTION  Re National Board of Soiler and  and employed by Commerce  and employed by Commerce  and of my knowledge and belief, the de, Section III.  Dever makes any warranty, expressions the Inspector nor his emi	Pressure Vessel Inspectors and in this Data Report on N Cartificate Holder has considered or implied, concerning player shall be liable in any
ruction of the ASME (note 1980)  Inde Winter 1980 (Case)  Ind Target Rock (IN Cartificate ASME Cartificate of Automotion on file as analysis report (Classian specifications cartificate Tall (Classian specifications cartified by State YY)  Signature not required.  The undersigned, holding the State or Province (Boston), Manual Manual Cartificate (Classian State) (Classian Cartificate) (Cl	Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Ig47  Formation No. 1947  Target Roc  Ig40  Ig47  Target Roc  Ig40  Ig47  Ig47  Ig40  Ig47  Ig40  Ig47  Ig40  Ig40  CERTIFICATE CF Si  Ig40  CERTIFICATE CF Si  Ig40  CERTIFICATE CF Si  Ig40  Ig40  CERTIFICATE CF Si  Ig40  Ig40	Date  Date  R. Revolution  R. Revolution  R. Abruzzo, Magr. of Commence  R. Corporation  R. Corporation  Miller  HOP INSPECTION  e National Board of Soiler and  and employed by Commence  and employed by Commence  and it pump, or valve, describe  as of my knowledge and belief, the de, Section III.  over makes any warranty, expressions of any knowledge and from or connections of any knowledge and belief, the descriptions of any	Pressure Vessel Inspectors and in this Data Report on N Cartificate Holder has considered with this inspection.
ruction of the ASME ( Inda Winter 1980)  Inda Winter 1980  (Case)  Inda Tarzet Rock  (In Cartificate ASME Cartificate of Auc  Inda analysis report (Classing specifications cartified by  State It    Signature not required.  The undersigned, holding the State or Province in Bostott, Minuted in in Bostott, Minute	Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Corporation  Ig47  Corporation  Corporation  Ig47  Corporation  Corporation  Ig47  Corporation  Corporation  Ig47  Corporation  Ig47  Corporation  Ig47  Corporation  Ig47  Corporation  Ig47  I	Date  Date  R. Revolution  R. Revolution  R. Abruzzo, Magr. of Commence  R. Corporation  R. Corporation  Miller  HOP INSPECTION  e National Board of Soiler and  and employed by Commence  and employed by Commence  and it pump, or valve, describe  as of my knowledge and belief, the de, Section III.  over makes any warranty, expressions of any knowledge and from or connections of any knowledge and belief, the descriptions of any	Pressure Vessel Inspectors 2/1/2/37 Quality 12/9/83 Commission of Experience Vessel Inspectors 21al Union Ins. In Cartificate Holder has considered or implied, concerning player shall be liable in any ected with this inspection. COMMISSION NO. 22

# TENNESSEE VALLEY AUTHORITY SHIPPING TICKET

No. S62-99-0252

SHIPPER CHRIS LONGWITH	POINT OF ORIGIN <u>SPRING CITY, TN. 37381 12-22</u> 19 98
STOREROOM WATTS BAR NUCLEAR PLANT	AUTHORITY JERRY CLOTHIER MANAGER
SHIP TO WYLE LABORATORIES 7800 HIGHWAY 20 WEST	ACCT NO. (DO NOT INCLUDE TRANSPORTATION CHARGES) DEBIT
HUNTSVILLE, AL 35806 ATTN: GREG MASON	RECORD ONLY ODD WZF4
BILL TO	CREDIT

	QTY 7						
ITEM	ORDERED	DESCRIPTION	PSC-ITEM NO. BIN NO.	QTY	UNIT	UNIT PRICE	44401
1	1	SEAT, VALVE, INSERT P/N: 200783-1 CONTRACT # 342533 IT-20, QA LEVEL I	BCW-672F	1	EA	FRICE	AMQUNT
2	1	DISK, VALVE, PILOT, P/N: 202918-1 RLSE: 1038087 IT-74 QA LEVEL I	BGM-743X	1	EA		
3	1	DISK, VALVE, MAIN P/N: 300891-1, S/N: 8 RLSE: 1181193 QA LEVEL I	BEQ-124P	. 1	EΑ		
		REF RLSE'S: 1299520 & 1241878		·			•
						·	
	! -	÷.					
Ī		·					
		THIS MATERIAL CONTAINS NO RADIOACTIVITY					
Shipping Weight		Distribution of					,

Trans	portation Charges		
Date Shipped 12-22-98	G.B.L. No. TV	Method of Shipment TVAT	29
Distribute as needed			—ш
TVA 144 (5-1970) [6-1996]			$\overline{\mathcal{O}}$

# FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES'

As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg.	1	of	_ 2

, 	hu Tarast Dask 100	66E Broadhollow Rd E Farr	ningdale NV 1	1735
Manufactured and cermed	(name and	address of NPT Certificate H	older)	1733
No Continued for	Tanaggaa Vallay Aut	honty, Chattanooga, TN 3740	12,2801	
Manulactured for	(name an	d address of Purchaser)	72-2001	
Location of installation		nt Spring City, TN 37381		
	(name and a	oures)		
Type 300891-1	SA479 347	75 ksi	N/A	1997
(drawing no )	(mat'i spec no)	(tensile strength)	(CRN)	(year built)
ASME Code, Section III, D	rvision 1 1980	Winter 1980	1	None
)	(edition)	(addenda date)	(class)	(Code Case no
<b>-</b>	unt Carat Cara (Day 3	Lanks NIA Borneran	N// 5	Note NICO
Fabricated in accordance	with Const. Spec (Div. 2	(no )	D	ate <u>N/A</u>
Remarks Main Disc	Assembly	( /		
Spare pa	rts for valve Model No. B.	2UU-001		
Part or Appurtenance Senal Number	National Board NO	Part or Appurten Senal Numbe	er	National Board NO
	In Numencal Order N/A	(26)		: Numencal Order
(1) <u>8</u> (2) <u>9</u>	IWA	(26)		
(3) N/A		(28)		
(4)		(29)		
(5) (6)		(30)(31)	<del></del> -	
		(32)		
(8)		(33)		
(10)		(36)		
(12)		(37)		
(13)		(38)		<del></del>
(14)(15)		(39)		
(16)		(40)		
(17)		(42)		
(18)		(43)		
(19)		(34)		
(20)(21)		(45)(46)		
(22)		(47)		
(23)		(48)		· · · · · · · · · · · · · · · · · · ·
(24)		(49)		
125)		1 (50)	ı	

10 Design pressure N/A psi Temp N/A F Hydro Test pressure 4510 psiq at temp F (when applicable) Ambient

\* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8% x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form

(12/88) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 REPRIFT (7/91)

PAGE

WBN-IVA-F 19-12-5

#### FORM N-2 (BACK - Pg. 2 of 2)

Certificate Holder's Senal Nos 8 through 9 CERTIFICATION OF DESIGN Design specifications certified by Marvin V Miller PE State TN Reg No 013995 (when applicable) Design report\* certified by Martin Goldstone PE State NY Reg No 031940 (when applicable) CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this (these)\_\_\_\_\_ conforms to the rules for construction of the ASME Code, Section III, Division 1 NPT Certificate of Authorization No N-1948 Date 712 (17) Name Target Rock \_\_\_ Signed \_\_ (NPT Certificate Holder) R E. Glazier, Manager, Q E (authorized representance) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of New York and employed by Commercial Union Insurance Co of Boston MA have inspected the pump, or valve, described in this Data Report on 1/24/47 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts of appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection Date The Samuel Library of the Commissions ALSO COMMISSION NO. 2288

(N. Y. STATE COMMISSION NO. 2288

ALSO COMMISSIONED IN PENN., OHIO & CONN.

(Natt: Bd (incl endorsements) and state or provided no. 2288

VYBN-I	VA-R97 : 1252	
PAGE_	40F_	19

PAGE 3/ OF 187



## CERTIFICATE OF CONFORMANCE

**CUSTOMER:** 

Tennessee Valley Authority

FOR:

Watts Bar Nuclear Plant

CUSTOMER P.O. #:

P87ZNR-467870-000 Release # 1181193

PROJECT #:

97S-102

PRODUCT:	P O ITEM	P/N	QTY	S/N	CURE DATE	EXP DATE
Main Disc Assembly	0001	300891-1	2	8, 9	_	-
Gasket	0002	200989-2	4	-	3Q95	3Q2015

We certify that the parts noted herein meet all the requirements of the purchase order. drawing and specifications. Further we certify that all final inspections and tests required to verify conformance of the items have been performed, and that the detailed fabrication, inspection and test records quoted in the order and specifications are traceable and are on file

The shelf life of Silicone Rubber (Item No. 002) is 20 years when the material is stored in clean dry containers, away from contaminates, sunlight and radiation, at a temperature not to exceed

Target Rock Quality Assurance Manual, Edition 7, Revision 9, dated 05/22/97 is applicable

We certify that the items supplied are the same in design and materials and were manufactured under the same process and quality controls as those items qualified by Target Rock Qualification Test Report Nos 3524 Rev. A and 3543 Rev. Original.

WBN-TYA-1292 PAGE

R. E. Glazier Manager, Quality Engineering



Tarpet Rock Corporation, P.O. Box V, 1966E Broadhullow Rd., East Farmingdale, N.Y. 11735 / Phone: (515) 293-3800

وري معرضه و المراجع والمعرضة و المعرضة والمعرضة والمعرضة والمعرضة والمعرضة المعرضة الم

TRACKING NO. 9400050258
PAGE 62 OF 69

33523

CUSTOMER: TENNESSEE VALLEY AUTHORITY

DATE: February 4, 1985

P.O. NO.: 84P72-342533

T.R. PROJECT: 84S-135-2

#### CERTIFICATE OF COMPLIANCE

TARGET ROCK CORPORATION hereby certifies that the below listed material furnished on this contract are in full compliance with all specification and contract requirements.

ITEM	OTY.	DESCRIPTION	PART NUMBER	NSN
~ 2	2	Disc, Pilot	202918-1	
V ;	2	Rod, Disc	202819-1	
7	2 .	Rod	102670-17	
10	2	Core, Fixed	202551-2	
18 *	4	O-Ring	300–2034	
19 *	4	Gasket	200989-2	
20	2.	Seat Insert	200783-1	

\*ITEM 18 - CURE DATE: 2084

SHELF LIFE: 10 YEARS

\*ITEM 19 - CURE DATE: 3084

SHELF LIFE: 10 YEARS

J. Schindler Manager, Spare Parts 33 OF 187



### CERTIFICATE OF CONFORMANCE

CUSTOMER:

Tennessee Valley Authority

FOR:

Watts Bar Nuclear Plant

CUSTOMER P.O. #:

P-87ZNR-467870 Release # 1038087

Supplement 002

TRC PROJECT #:

945-281

PRODUCT:

P.O. ITEM

P/N

Pilot Disc

74

202918-1

42

We certify that the parts noted herein meet all the requirements of the Purchase Order, Drawing and Specifications. Further we certify that the detailed fabrication, inspection and test records quoted in the order and specifications are traceable and are on file.

TRC Quality Manual, Edition 5, Revision 9, Dated 9/30/94 is applicable.

We certify that the items meet the requirements applicable to the items as originally specified by TVA Contract No. 82K22-831934 (Model 82UU-001).

irector, Quality Assurance

... FORM NEV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES. As Required by the Provisions of the ASME Code, Section III. Die 1

A STATE OF THE CONTROL OF THE CONTRO

ocation of Installatio	(Name and Address)				ty, Tennes	see
Pump or Valve			nlet Size3		utlet Size	3
(a) Model No.,	(b) N Certificate Holder	3 (c) Canadian	(ir	ich)		(inch)
Senes Na	Serial	Registration	(d) Orawing		(f) Natil.	(g) Year
or Type	Na.	Ma.	NG.	(e) Class	Bd. No.	Built
82(10	1,2,3,4		8200-00	1		1983
2)			, 1			1703
3)				8607	JAKO 158	7 (
4) 5)						
6)		· · · · · · · · · · · · · · · · · · ·	Contract N	<del></del>	12193	4
7)						
(8)			R.D. or S.T	. No		
9)			1209 No.	, y 3 -	2332	
old working Pressui	2485 psi	680 (Femperature) r 100°F			A	
Joid Warking Pressui	eces OSI JI	680 (Temperature) t 100°F Spec. No.		ressure Class		(1)
Pressure Retaining Pr	eces OSI JI	( 100°F	For Valve Pr	ressure Class		(1)
Pressure Retaining Pressure Mark No	eces OSI JI	( 100°F	For Valve Pr	ressure Class		(1)
Pressure Retaining Pressure Mark No	eces OSI JI	( 100°F	For Valve Pr	ressure Class		(1)
ressure Retaining Pressure Mark No	eces OSI JI	( 100°F	For Valve Pr	ressure Class	Remark	(1)
ressure Retaining Pr	eces OSI JI	( 100°F	For Valve Pr	urer	Remark	(1)
ressure Retaining Pr	eces OSI JI	3pec. No.	For Valve Pr	urer	Remark CRITED 6 1983 west	(1)
Pressure Retaining Pressure Mark No	eces OSI JI	( 100°F	For Valve Pr	urer Nut	Remark CRIVED 6 1983 WELL EAR	(1)
Pressure Retaining Pressure Mark No	eces OSI JI	3pec. No.	For Valve Pr	urer Nut	Remark  CRIZED  6 1363  W5-1	(1)
Pressure Retaining Pressure Mark No	eces OSI JI	3pec. No.	For Valve Pr	urer Nut	Remark CRIVED 6 1983 WELL EAR	(1)
Mark No	eces OSI JI	3pec. No.	For Valve Pr	urer Nut	Remark CRIVED 6 1983 WELL EAR	(1)
Mark No  Castings  b) Forgings	Material FEB	3pec. No.	Manufact	urer Nut	Remark CRIVED 6 1983 WELL EAR	(1)
Mark No	eces OSI JI	3pec. No.	For Valve Pr	urer Nut	Remark CRIVED 6 1983 WELL EAR	(1)
Mark No  Castings  D) Forgings	Material FEB	3pec. No.	Manufact	urer Nut	Remark CRIVED 6 1983 WELL EAR	(1)
Mark No  A Castings  b) Forgings	Material FEB	3pec. No.	Manufact	urer Nut	Remark CRIVED 6 1983 WELL EAR	(1)
Mark No  A) Custings	Material FEB	3pec. No.	Manufact	urer Nut	Remark CRIVED 6 1983 WELL EAR	(1)
Mark No  Castings  D) Forgings	Material FEB	3pec. No.	Manufact	urer Nut	Remark CRIVED 6 1983 WELL EAR	(1)

<sup>(1)</sup> For manually operated valves only,

<sup>\*\*</sup> Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 3-1/2" x 117, (2) information in



CERTIFICATE OF SHOP 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 York and employed by Commercial Union Insurance of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 19 83, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in servi

manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 19 33 NEW YORK STATE COMMISSION NO. 2238

. Owner TENNE	ESSEE VALLEY AU	THORITY	Date	10/1	9/9	8	
400 W. S	ummit Hill Drive, Kr	noxville, TN	Sheet	of			·
. Plant Watts	Address Bar Nuclear Plant		Unit U	nit 1			
P. O. Box	Name 2000, Spring City,	TN, 37381	MMG	98-023	ac	000	
. Work Performed	Address 1 by magical mag	AINT WANF	Type Cod	98 - 00239 Repair Organization P e Symbol Stamp	.O. No.	, Job No., etc.	<del></del> . <u></u> -
			Authorizat			7	
1	SPEING CIT		Expiration		<i>\big\</i>	<u> </u>	<del></del>
I. Identification of	system Page +	OR LUDGANT			<u> </u>		··
(a) Applicable C						Cas	10 Coo
(b) Applicable 5	dition of Section VI	SME SECTO 1971	<u>ار</u>	IMMCN7 Eddenda	i,	<del>در زيم</del>	ie Case
(b) Applicable E	dition of Section XI	Utilized for Repairs o	r Replacei	ments 1989	_	,	
3. Identification of	Components Repair	red or Replaced and i	Replaceme	ent Components			
3. Identification of	Components Repair	red or Replaced and i	Replaceme	ent Components		1	
	·		Replaceme	ent Components	Year	Repaired, Replaced, or	ASME Code Stampe (Yes or
Name of Component	Components Repai	Manufacturer Senal No.		Other Identification		, ,	Code Stampe
Name of Component	Name of Manufacturer	Manufacturer Senai No.	National Board No.	Other Identification	Suit	Replaced, or Replacement	Code Stampe (Yes of No)
Name of Component	·	Manufacturer Serial No.	National Board No.	Other Identification	Suit	Replaced, or Replacement	Code Stampe (Yes or
Name of Component	Name of Manufacturer	Manufacturer Senai No.	National Board No.	Other Identification	Suit	Replaced, or Replacement	Code Stampe (Yes of No)
Name of Component	Name of Manufacturer	Manufacturer Senai No.	National Board No.	Other Identification	Suit	Replaced, or Replacement	Code Stampe (Yes o No)
Name of Component	Name of Manufacturer	Manufacturer Senai No.	National Board No.	Other Identification	Suit	Replaced, or Replacement	Code Stampe (Yes o No)
Name of Component	Name of Manufacturer	Manufacturer Senai No.	National Board No.	Other Identification	Suit	Replaced, or Replacement	Code Stampe (Yes o No)
Name of Component	Name of Manufacturer	Manufacturer Senai No.	National Board No.	Other Identification	Suit	Replaced, or Replacement	Code Stampe (Yes o No)
Name of Component	Name of Manufacturer	Manufacturer Senai No.	National Board No.	Other Identification	Suit	Replaced, or Replacement	Code Stampe (Yes o No)
Name of Component	Name of Manufacturer	Manufacturer Senai No.	National Board No.	Other Identification	Suit	Replaced, or Replacement	Code Stampe (Yes o No)
Name of Component	Name of Manufacturer	Manufacturer Senai No.	National Board No.	Other Identification	Suit	Replaced, or Replacement	Code Stampe (Yes o No)
Name of Component	Name of Manufacturer	Manufacturer Senai No.	National Board No.	Other Identification	Suit	Replaced, or Replacement	Code Stampe (Yes o No)
Name of Component	Name of Manufacturer	Manufacturer Serial No. 2/3/ -2:33 Cw S/35/44	National Board No.	Other Identification  PN -  5057024401	3uit	Replaced, or Replacement	Code Stampe (Yes o No)

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is  $3\frac{1}{2}$  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.

GF 37 OF

FORM NIS-2 (Back)	
9. Remarks TRACKING NO. RR-02-3021C1-6/98	
Applicable Manuacturer's Cata 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	
11 A.M. 18 5	<u> </u>
Signed Owner or Owner's Designee, Titte	2
CERTIFICATE OF INSERVICE INSPECTION	
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 IET co	
of Hart Force CT. have inspected the components described in this	
Owner's Report during the period $\frac{19/20/28}{20/28}$ to $\frac{4/15/22}{20/28}$ and state that to the b	est
of my knowledge and belief, the Owner has performed examinations and taken corrective measures describ	ed
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, neith	ıer
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.	
Bu m & 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,
Inspector's Signature Commissions TN 2534 I National Board, State, Province, and Endorsement	c
	J
Date 4/15 19 77	

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

P.O. BOX JONG STRI	NG CITY TA	J	Sheet 1	ot		
					_	
ant 1/4- By Nucle	الم	·····	Unit			
(ABIII)			depair Gran	JARK PI	111 8-2013	5702 - T
20 30x 2010 SPE	7.00	<u>.:'/</u>	depair Orga	nization 2	.O. No., 100 No.,	410.
Vark Performed by			Type Cade Syinbol	Stamp	<u> </u>	
į	Name	<del></del> .	Authorization No.			
20 30x 2000 C	PRING CITY	<u> : V</u>	Expiration Date		1/.	
lentification of System Report	2 12/11/07	Cuctu	6-26-2			
entineation of Marcin	ــــــــــــــــــــــــــــــــــــــ	<del></del>				
1 Applicable Construction Gode 40	1) = T 10.	Editian,	Summer 72 s	\ddenda,_	Λ.	_Cade Case
Applicable Edition of Section (Cl Ut	itized for Repairs	ar Replacement	s 19 70 10 K			
tentification of Components Repaired	S bac beariast ac	eplacement Co	mponents			
	:	<del></del>	i		!	;
			!			ASME
			· !			Code
		National			Repaired.	Stamped
Name of Name of	Manuraences		Other	1/220	Replaced.	(Yes
Name of Name of Camponent Manufacturer	Manutacturer Serial No.	Board No.	Other Identification	Year Built	!	1
	'	Board	i		Replaced,	1
Component Manufacturer	Serial No.	Board No.	Identification	Built	Replaced, or Replacement	or Na)
Component Manufacturer  Les v Commer Plum / Wes emphouse	'	Board	i		Replaced, or Replacement	or Na)
Component Manufacturer  Leav Commer Pump / Wec anguous e  Seel Housing	Serial No.	Board No.	Identification	Built 1440	Replaced, or Replacement	or Na)
Component Manufacturer  Leter Commer Huma   Leter Improvise  Leaf Housing  actor Detent Pump L Lettragnouse  2 Com Housing	3eriai Na.	30ard No. N/,4 N/,3	Identification	Built	Replaced, or Replacement  Cipiacim ent  Kapiacim unt	Or NO)
Component Manufacturer  Let V Commer Pump 1 Wes improves g  Seal Housing  Let Distant Pump 2 Westinghouse  2 Seal Housing  Let Gener Pump 3 Westinghouse	3eriai Na.	3oard No.	Identification   2/N   5055 D24 501   P/N   5055 D24(50)   P/N	Built	Replaced, or Replacement	Or NO)
Component Manufacturer  Lear Commer Pump I Wes improves e  Lear Housing  Letter Commer Pump L Westinghouse  2 Soal Housing  Little Commer Pump 3 Westinghouse  2 Seal Housing	3enai No.  2 / 3 / .  2 / 3 3 .  2 2 3 7 .	30ard No. N/A N/A V/A	3/N   5055 D24 501   8/N   5055 D24 501   8/N   5055 D24601	3uit   1370   1990   1990	Replaced, or Replacement  Cipiacement  Kaplecement  Replacement	or No.
Component Manufacturer  Tow Commer Pump I Was Improved to Commer Pump I Wasting now it was Improved to Govern Pump 3 Wastinghouse Seal Fousing Wastinghouse to Component Pump 4 Section grows to Component Pump 1 Section grows to Component Pump 2 Section grows to Component Pump 3 Section grows to Component Pump 2	3eriai Na.	30ard No. N/,4 N/,3	3//N   5055 D24 G01   8/N   5055 D24 G01   8/N   5055 D24 G01   8/N   5055 D24 G01   8/N	3uit   1370   1990   1990	Replaced, or Replacement  Cipiacim ent  Kapiacim unt	or No.
Component Manufacturer  Tow Commer Pump I Was Improved to Commer Pump I Wasting now it was Improved to Govern Pump 3 Wastinghouse Seal Fousing Wastinghouse to Component Pump 4 Section grows to Component Pump 1 Section grows to Component Pump 2 Section grows to Component Pump 3 Section grows to Component Pump 2	3enai No.  2 / 3 / .  2 / 3 3 .  2 2 3 7 .	30ard No. N/A N/A V/A	3/N   5055 D24 501   8/N   5055 D24 501   8/N   5055 D24601	3uit   1370   1990   1990	Replaced, or Replacement  Cipiacement  Kaplecement  Replacement	or No.
Component Manufacturer  To v Commer Pluma / Was immonous e  Soul Mousing  Low Doctor Pluma L Westinghouse  Tool Housing  Too Govern Pluma J Westinghouse  Seek Housing  Citor Commer Pluma + 4, Estimamuus e	3enai No.  2 / 3 / .  2 / 3 3 .  2 2 3 7 .	30ard No. N/A N/A V/A	3//N   5055 D24 G01   8/N   5055 D24 G01   8/N   5055 D24 G01   8/N   5055 D24 G01   8/N	3uit   1370   1990   1990	Replaced, or Replacement  Cipiacement  Kaplecement  Replacement	or No.
Component Manufacturer  Leter Commer Pump 1 Wes improves e  Seal Housing  Leter Commer Pump 2 Westinghouse  2 Seal Housing  Leter Commer Pump 3 Westinghouse  2 Seal Housing  Leter Commer Pump 4 4 estimations	3enai No.  2 / 3 / .  2 / 3 3 .  2 2 3 7 .	30ard No. N/A N/A V/A	3//N   5055 D24 G01   8/N   5055 D24 G01   8/N   5055 D24 G01   8/N   5055 D24 G01   8/N	3uit   1370   1990   1990	Replaced, or Replacement  Cipiacement  Kaplecement  Replacement	or No.
Component Manufacturer  Low Commer Pump   Westingnouse  Low Commer Pump L Westingnouse  2 Soul Housing  Westinghouse  2 Soul Housing  a City Commer Pump 3 Westinghouse  2 Soul Housing  a City Commer Pump 4 & Estimanuse  Soul Housing	3enai No.  2/ 3/: 2/ 3 3  22 37 .  22 74 .	30ard No. N/A N/A V/A	3/N   5055 D24 501   8/N   5055 D24 501   8/N   5055 D24 501   8/N   5055 D24 501	3uit 1440 1490 1990 1990	Replaced, or Replacement  Cipiacement  Laplacement  Replacement  Replacement	or No.
Component Manufacturer  Low Commer Pump   Westinghouse  Low Documer Pump   Westinghouse  2 Sand Housing  Los Housing  Description of Work  Los Housing	3eriai Na.  21 31: 21 3 3 22 37 .  22 37 .	30ard No.  N/A  N/A  V/A  V/A	3/N   5055 D=4 50    P/N   5055 D=4 50	3uit 1440 1440 1440 1440 1940	Replaced, or Replacement  Kiplacement  Replacement  Replacement	or No.
Component Manufacturer  Low Commer Pump   Westingnouse  Low Commer Pump L Westingnouse  2 Soul Housing  Westinghouse  2 Soul Housing  a City Commer Pump 3 Westinghouse  2 Soul Housing  a City Commer Pump 4 & Estimanuse  Soul Housing	3eriai Na.  21 31: 21 3 3 22 37 .  22 37 .	30ard No.  N/A  N/A  V/A  V/A	3/N   5055 D=4 50    P/N   5055 D=4 50	3uit 1440 1440 1440 1440 1940	Replaced, or Replacement  Cipiacement  Laplacement  Replacement  Replacement	or No.

recorded at the top of this form.

		ころころんけんしつ	ELECT	TRIC CORPO	DRATION	GR _	·	7 <u>7 7 7</u>	- <u>-</u>
		80027	396			\E-E!\ (N-46	•	P-BENSA (T-TAMPA	
:.a. i Cust.	. J.	AL F. J. PROJECT F. J. PROJECT		•	##G 1, 3, NQ.		40	DATE (S	
7103	2-54114-1	: 1N 1A 1	1 W 1 A 1 T 1			125		0 12 12 17 19	
CO-42067	;	0094		HA	1	NA.	MA	1	NA
.3040.00.3 44V.14 NA	(344)	NA	016671	GRAWING 49.	4E921		11	0	52
IIA	SCbCbI		Cartr		·			a <del>f</del>	Y. 1644A360
L SR IGENTIFICATI		24 2217		1494 3411	Addition		<u> </u>		<u> </u>
	See Attached	. PA 2217	<del></del>			····			
	<del></del>						·	<del></del>	
on-toplicable ite	ma are ⊓ned out. ∃e	reviewed and approve	ed by QC/C	A us noted by an Contingent items	A in the stat	us column. ov "C" on			
ne status columni. TATUS	and explained in thi		TUS			ITATUS			
,		<u>-</u>							
	Cartifications		Douce	uting <u>Electrica</u> :	<u>-e: 3ecordo</u>		<del>ME Pula Pu</del>	<del> </del>	AFTAGHRO
	at Aesoras			.ocrat.ng	<del>TREET TRA</del>		ictifina trae	2 sances	
	und Records			aure Test Record:	<b>.</b>		<u>Parforma</u>	inco Toc	<u> </u>
	ras		, <del>car</del>	omance Test Rec	<del>'</del>				· Attache
			,						<u>v Orawia</u>
. IT Aeco			١	ing Personnel Qu			Attached		V OF WAR
<u> </u>	nspection Records			Personnei Qual.	Wert.		ي المالية المالية المالية	<u> </u>	······································
——— Dimensi ——— Cleaniir	ional inspection	<del></del>	<del>2-am</del>			<del></del>			
G.eaniir	1835		7 Pick	aging					
						2000 1.3	-ACHED 70 1H	30.1g 74.0FF	
	<del></del>							·	
					<del></del>				
				<del></del>	SUPPLEA				
released, 3		ES that for the equipments have be autrements have be a apove.				TIGHATURE			HATE
		DV के Quality Assura	ance. Shior		e subject to au			asing.	
	MIGH TAL COVERS						_		
The equipment was rawings and specificati	ions. Mettinghouse has r	aments, This release sopporting	(ftd. / et eases or	and except as associated		سررين	-( /	/	cas II.

#1:	WEST INCILLA	7	<u></u>	1	P ORDER	THIS	siiii ne l	ni	2/23/90		# 345-C
	CHESHICK,	15024		Ι,	ERAL UNDER HO.	IOIAL ON O	ADER		DUNESTIC	EXPORT	SIGNATURES
,		•			042067	10			Х		
111				<b>₽</b>	CHASE UNDER HO.	IOTAL DEL	0 10 D	AIE	I L AIWABLE		Playmen J. Clink
• •		• • • • • • • • • • •	******	ÀΙ	1062-54114-1	10	4		Ho		Chuk 2-23.
			* * * * * * * * * * * * * * * * * * * *	7 1	N HUMBER	PARTIAL		HAL	HURIBER OF CO	HIAIHERS	EXPED TOR
		*********	************	R	CPCP1	Х	İ	•	8		Jednak 2-2
					ICHIER WITHESS REG es						A Molnuku 2 2
			*******	112	14424814148111111	1111111	1111	111111111	610314111		PACKING INSPECTOR
						*****	3444				1211/0400
	2121111	\ <b>!!!!!!!!!!</b>	**********	141	14213444144444	*******					OA RECORDS
	*****			1444		******	* * * * *	*******	********	******	gin. Do consog 2.1;
		PURCHASE ORDER NO.	PART HUMBER/ DRAWING	REV	DESCRIPTION		QIT	CUSTOHER	ID	PACKAGING	PARIS AND PKG INSPECTOR
							ļ ——			0623	(c)
	2181		2074703601	6	Cart Seal Assy		1				(cm)
o t.e	20747	13 GOL is	tem 52 of Gener	1 /	sembly dwg. 114E92	21 G03, v	hicl	consists	of the f		Is and No. 2 Hous
	7805		5053066 G01	13	No. 2 Seal Ring					039	GH)
	4738		5053D75 G02	16	No. 2 Seal Runner			į		039	
276	2999		1D99105 G01	3	No. 3 Seal Ring				1	039	800
<u> </u>	5493		1741C57 H02	13	Hồ. 3 Seal Runnei					039	2
	2181		5055D24 G01	12	Seal Housing					039	39
Page											
الم				,•		·					600
											0
	<u>.</u>							100.67	16681		
PA	GE	1 OF 18	[			•	1 1	1 : 12	1. 7. % 4 mar. 1		

### 9800239600 FORM NEVAL MANUFACTURERS DATA REPORT FOR NUCLEAR PLMPS OR VALVES

### As Required by the Provisions of the ASIE Code Rules

,	Westinghouse El Cheswick Avenue	, Cheswick, PA	A 15024	Orde	U-363	•
anufactured by	WestinghouseP Monroeville, PA	A Address of Manual	ncturer)			C-151792
		•	,	0 860724		T
Tenr	nessee Valley Aut	107 T Cy		0 00072.		•
ocation of Plan	Spring City.	Tennessee				
ump or Valve lo	destification S/N +	4-114E921-G01	1			
rovide Rea	Ann Coolant Flow	in Westinghou	use <sup>p</sup> res	surized Water	Reactor	
a) Drawing No.	114E921	Prepared by	Westingh	ouse Electric	Corporation	
	ard No. N/A					
Design Conditio	2570	ps:	650	_ °F	_	
					1	•
The material, d	esign, construction, and t	workmanship comple	with ASMI	E Code Section III. Cl		<del></del>
The material, d	esign, construction, and t	workmanship compiler	72 . Ca	E Code Section III. Cl		
The material, d  Edition 19  See Attach	esign, construction, and t	Date Summer 19:	72 . C. throug	E Code Section III. CI se No. N/A h (d) below	***	
The material, d  Edition 19  See Attach	71 Addenda ments 1 through 4	Date Summer 19: I for Items (a	72 .c. throug	se No. N/A h (d) below	Roman	
Edition 19 See Attach	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .c. throug	n (d) below		
Edition 19 See Attach	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .c. throug	n (d) below		
Edition 19 See Attach	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .c. throug	n (d) below		
Edition 19 See Attach	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .c. throug	n (d) below		
Edition 19 See Attach	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .c. throug	n (d) below		
Edition 19 See Attach	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .c. throug	n (d) below		
The material, d  Edition 19 Spe Attach  (a) Castings	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .c. throug	n (d) below		
Edition 19 See Attach	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .c. throug	n (d) below		
Edition 19 See Attach	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .c. throug	n (d) below		
Edition 19 See Attach	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .c. throug	n (d) below		
Edition 19 See Attach	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .c. throug	n (d) below	Roma	
Edition 19 See Attach	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .C. ) throug	se No. N/A h (d) below  Manufecturer	Roma	
Edition 19 See Attach	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .C. ) throug	n (d) below	Roma	
Edition 19 See Attach  (a) Castings	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .C. ) throug	se No. N/A h (d) below  Manufecturer	Roma	
Edition 19 See Attach  (a) Castings	71 . Addenda ments 1 through 4	Date <u>Summer 19</u> for Items (a	72 .C. ) throug	se No. N/A h (d) below  Manufecturer	Roma	

(. (2) infernation in items, 1, 4, ——
is a recorded at top of this form.

FILMED FROM PEST

AVAILABLE CO

	Mark No.	Material Spec. No.	Manufacturer	Z J ) O O O O
	Bolting			
		-		
(4)	Other Parts			
H sa d sa	DATALIC 1881 3750 ps	. (Pump Code P	arts) Contract N	0. 54114-1 World
			DD as ST	NIA REPUPE
	n information on file ni Westinghous analysis report on file at Westingho	ERTIFICATION OF	DESIGN R.D. or S.T.	110.
_	. Westinghous	e Electro-Mecha	nical biolision 7	6.64/4 30 2
Design	enelysis report on file at Westingho	use Electro-Mec	hanical Division	
Desig	n specifications certified by Robert	Svivester	(1) Prof. Eng. State	PA Res. No. 13441-Ci
5	s analysis report certified by <u>Dr. O.</u>	Hagen	(1) Prof. Eng. State	PA Reg. No. 09091-E
	gnature not required. List name only.	. w		
No co	ertify that the statements made in this rep	on we correct.		
		Westinghouse El		I had
Dave.	October 13 19 81 Signed	Mechanical Divi	sion by loce	The Coxellary
		May 14	1 1982	
Certil	ficare of Authorization No. N-1385	expires 11d 7 1		
				<del></del>
	CERT	TFICATE OF SHOP	INSPECTION	
	the undersigned, holding a valid commi-	ssion issued by the Nat IANIA	tional Bourd of Boiler and aployed by <u>LUMBERMEN</u>	S MITUAL CASUALTY CO.
end/	LONG GROVE TILL INOTS	and et	have inspected the equi	pment described in this Data
Repo	n on <u>DEC. 4</u> 1974	_, and state that to th	ne best of my knowledge	and belief, the Manufacturer
8,	constructed this equipment in accordance y signing this certificate, neither the In	spector no: his employ:	er makes any warranty, ex	pressed or implied, concern-
ine s	he equipment described in this Data Repo er for any personal injury or property dam	orc. Furthermore, neithe	t the Inspector not his em	ployer shall be liable in any
		MMISSIONS	0417	
<del></del>	(INSPECTOR)	(NATIO		, PROVINCE AND NO.)
_	OCT. 1 3 1981	·	3136	
Date	ESSED COMPLETED PUMP ASSEMB	LY HYDROSTATIC	TEST: 3/07 ps	1, for <u>/O</u> minutes.
		Thank D. 6	Sic Da	te 10-24-81

EM Mylan 10-24-81

a said		- GÜAI	LITY	RE	LEASE	. (	aainna	706	
		WESTINGHOUS					JOUUZ	<del>و د ر</del>	545) U REV 1
			//	ر مادور	elto		(E-EMD	_	-PENSACOLA) -TAMPA)
	6A6E P. O.	PROJECTP	क्र		PROJECY		##0 8. 0. NO.		DATE
<u> </u>	N/A	1 5 1 9	× 12	W	AIT		125	1	10 11 13 18 11
)-62003-A		U-363		**	N/A		N/A	N/A	23
-677188 F		11. Lerim Revis	4 with	h_5	114E	921		*EV. 8	601
'A	WAT-RC	PCPI-04	PART HAM	Reac	tor Cools	ant	Pump Interna	ls	674. 87 ZAOZO
'N 4-1148	921-G01		<u> </u>						
							<del></del>		
								·	
		men reviewed and approv . Records are svallable the remarks section,	red by QC. for review.	QA as. Conti	noted by an A	in the	status column, tified by "C" on		
TAT'S		STA	TUS				STATUS		
A Mater	rial Cartifications		<u>- Oper</u>	:111101C	CONTROL CONTROL	Trance	A ASM	E Data Repor	Form(a) NPV-1
A rinat	Treat Records			स्मान	TING ENVEL THE	i Mirak	Λ	ified Stress R	ATTACHE
A ATE	Film and Records		A Pres	Sore !	Fest Pecords		A	ial Handling,	Storage & Install, Instruc
PIN	lecords	<u></u>	— <del>- Эолг</del> А	- Frigini	head Teal hec	<del>Ords</del>	·		
	Records		<del>Ре</del> гіс Д		e Test Record			·	
A	Records III Inspection Record		Weld Δ		ersonnel Qual,			· · · · · · · · · · · · · · · · · · ·	
Α	ensional inspection	<u></u>			onnel Qual, Cer	rt.			
A	nliness		A	tin <del>a.</del> Viging			<del></del>		
CUBIOMES Q4	DATA PACRAGE TEQU.	mayor mar more make compression.			<del></del>	. X .			
						• 20 -	ICOPY ATTACH	Om(\$) (13760 (60-), Чијевју	S PAPERS!
This g	rulity relea	se revision is	155160	1 to	communic		*h>* -11		
on the	original qu	ality release	have be	en e	cleared a	are and a	uthorize and	ingenc	les listed
"N" \$Y	mabol stamp t	o the pump assu	embly n	iamei	plate aft	er (	completion of	f site s	estem cold
hydro.									CALEST COTO
- <del></del>			<del>-</del>	, .	· · · · · · · · · · · · · · · · · · ·		FILMED FE	OM	
						-	AVAILABI	E COPY	
				-		30566	( a	-	
εu,	an contractual r	IES that for the equipequirements have been	oment and en met.	d mat	terial oved		N/A		N/A
Jor	ts, it any, are liste	ed above.					N/A		N/A ·
me members on members on idnibusut tyc	own hereon is release	d by ( Quality Assuran	ce. Shipm	ent m.	ay be made sub	oject to	authorization by	Puro asing.	
- has determed a	districtions from mark resp.	This tables there makes the same of the sa	در محمد المحمد بالأداء فيده عمد يدر المهمون فيدم			-	oud	Cua	elte f

### ATTACEMENT TO FORM NPV-1

Westinghouse Electro-Machanical Division tured by Cheswick Avenue, Cheswick, Pa. 15024

Order No. U-363

Westinghouse--PWRSD Manufactured for Monroeville, PA

Order No. 546-NRC-151972-8N

Drawing Mumber

114E921

Serial Number

4-114E921G01 .

Mational Board Number

N/A

Component	Pert Number	Material Spec. No.	Manufacturer	Serial Number(s)
18 Thermovell	929C854G <u>01</u> 1306C07G <u>01</u>	SA-351 Gr CF8 SA-479 Type 304 5 SA-213 Grade TP304	Esco Corp. Ionics	<u>995</u> 1588
2 Main Flange Bolts (24)	913C495 <u>GO1</u>	SA-540 Grada B24  FILMED FROM B AVAILABLE CO	J. Dyson ST	9077     9074     9004       9079     9078     8387       8391     8920     9073       9042     8922     8928       8926     8929     9045       9043     8386     9044       9040     9076     9072
3 Lower Seal Housing Bolts (12)	4129A37H <u>16</u>	SA-193 Grade 87	Radform Tool	2439     2440     2444       -2452     2456     2464       2493     2495     2497       2499     2500     2510
4 Upper Seal Bousing Bolts (12)	4129A36H <u>10</u>	SA-193 Grade B7	Safety Socket	2085     2235     2621       2098     2236     2523       2106     2252     2659       2233     2589     2698

ATTACHMENT TO FORM NEV-1 80023960QQ 2 OF 4

Westinghouse Electro-Mechanical Division
Cheswick Avenue, Cheswick, Pa. 15024

Westinghouse--PWRSD

has rectured for Monroeville, PA

Order No. 546-NRC-151972-BN

Drawing Number 114E921

Serial Number 4-114E921G01

National Board Number \_\_\_\_\_N/A

Component	Part Number	Material Spec. No.	Manufacturer	Serial Number(s)
5 Thermal Barrier	510F365G <u>01</u>	Not Applicable		
SA Flange	510f <u>364G01</u>	SA-182 Grada P 304	Standard Steel	917
53 Water Connection	925B950G <u>02</u>	Not Applicable		
5B.1 Flange	955B758H <u>05</u>	SA-182 Grade 316	Western Forge	<u>2686 2661 267</u>
Pipe	925B950H <u>05</u>	SA-312 Grade Tp 305	Babcock & Wilco	<u> 2869 2867 296:</u>
SC Pressure Tap	92589496	Not Applicable		
5C.1 Flange	955в798н	SA-182 Grade 316		<u>N/A</u>
5C.2 Pipe	925B949H	SA-312 Grade Tp 304		N/A
5C.3 Reducer	955В799Н	SA-182 Grade 316		<u>N/A</u>

AVAILABLE CO.

4GE 46 OF 187

#### ATTACHMENT TO FORM NPV-L

Page 3 (Spool)

Westinghouse Electro-Mechanical Division ctured by Cheswick Avenue, Cneswick, Pa.

Crder No. U-363

Manufactured for

Westinghouse--PWRSD Monroeville, PA

Order No. 546-NRC-151972-8N

Drawing Number

114E921

Serial Number 4-114E921G01

National Board Number	N/A			
Component	Part Number	Material Spec. No.	Manufacturer	Serial Number(s)
6 Lower Seal Housing (Spool)	933D313 H <u>O3</u>	SA-182 F304	Standard Steel	952
6A Thermovell	955B797H <u>02</u>	SA-479 Type 304	Simonds Steel	1580
68 No. 1 Leak Off Connection	913C741G <u>02</u>	Not Applicable		
Flange	955B758H <u>02</u>	SA-182 Crade 316	Western Forge	2658
6B.2 Pipe	913C741H <u>05</u>	SA-312 Grade Tp 304		2891
6C Lift Off Connection	913C533G <u>02</u>	Not Applicable		
6C.1 Flange	955B756 <u>н</u> 02	SA-182 Grade 316	Western Forge	2528
6C.2 Pipe	913C533H <u>05</u>	SA-312 Grade Tp 304	Allegheny Ludlum	2896
7 Upper Seal Housing (Spool)	933D309′ <u>H04</u>	SA-182 F304	Standard Steel	. 871
7A No. 2 Leak Off Connection	929C852G <u>04</u>	Not Applicable		
7A.1 Flange	955B798H <u>02</u>	SA-182 Grade 316	Western Forge	2756
Pipe	929C852H <u>07</u>	SA-312 Grade Tp 304	U.S. Steel	2900
			FILMED FROM B	EST DY

98002396000

			3000
	ATTACHMENT TO FO	ORM NPV-1	Page 4 of 4
Manufactured by	Westinghouse Electro-Mechanical D Cheswick Avenue, Cheswick, PA 1502	ivision	U-363
Manufactured for	WestinghousePWRSD Monroeville, PA		r <u>546-NRC-</u> 15 <u>1972-8</u> N
Orawing Number _	114E921		
National Board No	o	Serial No4	- <u>114F921G01</u>
The following Re (N-2 Form).	actor Coolant Pump Casing is covere	ed by its own Manufact	urers' Data Report
Serial Number	Parc Number	Manuf	acturer
927	114Е968НО1		Corp.

FILMED FROM BEST AVAILABLE COPY

L WOOF 16

#### WO # 98-008211-004

400 W. Summit Hill Dri Address Plant Watts Bar Nuclear P	ant  City, TN, 37  R NUCLEAR  Name TN 37381  CHEMICAL  Ode ASME S On XI Utilized  Repaired or fe	VOLUME CO	MMG 98-0 Type Cod Authorizat Expiration ONTROL Edition	S:72 Addendements 1989	a, NOI	Repaired, Replaced, or Replacement REPLACE-	ASME Code Stampe (Yes o No) YES
Plant Watts Bar Nuclear P P. O. Box 2000, Spring Work Performed by WATTS B O. BOX 2000, SPRING CITY, Address Identification of system 062 (a) Applicable Construction C (b) Applicable Edition of Sect Identification of Components Name of Component Name of Manuf-RFV-062-0649-S CROSBY VAL	City, TN, 37  R NUCLEAR  Name TN 37381  CHEMICAL  ode ASME S on XI Utilized  Repaired or F	VOLUME CO SEC. III 19 71 of for Repairs of Replaced and	MMG 98-0 Type Cod Authorizat Expiration ONTROL Edition, or Replace Replacem National Board No.	Repair Organization Pile Symbol Stamp tion No N/A n Date N/A S72 Addendements 1989 nent Components Other Identification	a, NOI	Repaired, Replaced, or Replacement REPLACE-	ASM6 Code Stampe (Yes (
P. O. Box 2000, Spring  Address Work Performed by WATTS B  O. BOX 2000, SPRING CITY, Address  Identification of system 062  (a) Applicable Construction C  (b) Applicable Edition of Sect  Identification of Components  Name of Component Name of Manuf-RFV-062-0649-S CROSBY VAL	City, TN, 37:  AR NUCLEAR  Name TN 37381  CHEMICAL  ode ASME S on XI Utilized  Repaired or F	VOLUME CO SEC. III 19 71 of for Repairs of Replaced and	Type Cod  Authorizat  Expiration  NTROL  Edition, Sor Replace  Replacem  National Board No.	Repair Organization Pile Symbol Stamp tion No N/A n Date N/A S172 Addendements 1989 ment Components Other Identification	a, NOI	Repaired, Replaced, or Replacement REPLACE-	ASM6 Code Stamp (Yes (
Work Performed by WATTS B O. BOX 2000, SPRING CITY, Address Identification of system 062 (a) Applicable Construction C (b) Applicable Edition of Sect Identification of Components Name of Component Name of Manuf RFV-062-0649-S CROSBY VAL	Name TN 37381  CHEMICAL ode ASME S on XI Utilized Repaired or F	VOLUME CO SEC. III 19 71 ed for Repairs of Replaced and	Type Cod  Authorizal  Expiration  ONTROL  Edition, Sor Replace  Replacem  National Board No.	tion No N/A  n Date N/A  Si72 Addendements 1989  ment Components  Other Identification	a, NOI	Repaired, Replaced, or Replacement REPLACE-	ASMI Code Stamp (Yes (
Address  Identification of system 062  (a) Applicable Construction C  (b) Applicable Edition of Sect  Identification of Components  Name of Component Name of Manuf-RFV-062-0649-S CROSBY VAL	CHEMICAL ode ASME S on XI Utilized Repaired or F	SEC. III 19 71 ad for Repairs of Replaced and	Expiration ONTROL Edition, Sor Replace Replacem National Board No.	n Date N/A  Si72 Addendements 1989  ment Components  Other Identification	Year Built	Repaired, Replaced, or Replacement REPLACE-	ASM Code Stamp (Yes No)
(a) Applicable Construction C (b) Applicable Edition of Sect Identification of Components  Name of Component Name of Manuf	ode ASMES on XI Utilized Repaired or F	SEC. III 19 71 ad for Repairs of Replaced and	Edition.  or Replace  Replacem  National Board No.	S'72 Addenderments 1989 nent Components Other Identification	Year Built	Repaired, Replaced, or Replacement REPLACE-	ASM Code Stamp (Yes No)
(a) Applicable Construction C (b) Applicable Edition of Sect Identification of Components  Name of Component Name of Manuf RFV-062-0649-S CROSBY VAI	ode ASMES on XI Utilized Repaired or F	SEC. III 19 71 ad for Repairs of Replaced and	Edition, Sor Replacem Replacem National Board No.	ements 1989 nent Components Other Identification	Year Built	Repaired, Replaced, or Replacement REPLACE-	ASM Cod Stamp (Yes No)
(b) Applicable Edition of Sect Identification of Components  Name of Component Name of Manuf REV-062-0649-S CROSBY VAL	on XI Utilized Repaired or f	d for Repairs ( Replaced and	Replacem Replacem National Board No.	ements 1989 nent Components Other Identification	Year Built	Repaired, Replaced, or Replacement REPLACE-	ASM Cod Stamp (Yes No)
RFV-062-0649-S   CROSBY VAI			Board No.		n Built	Replaced, or Replacement REPLACE-	Cod Stamp (Yes No
RFV-062-0649-S CROSBY VAI			Board No.		n Built	Replacement REPLACE-	No
RFV-062-0649-S CROSBY VAI	VE N5690	00-00-0019	180	NOLLE	75	1	YES
- 57.V - OK 3-0649-3 - KMSKY YALL				, == 145		MENT	
	a MS6 10	011-911-911005	178	MSN E	75	PEP!ACES	14.
. Description of Work REMC	 √E/REPLAC	E SAFETY RE	ELIEF VAL	VE.	•		

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.

#### WO # 98-008211-004

	WO # 38-008211-004	
	FORM NIS-2 (Back)	
marks	Applicable Manufacturers Cata Reports to be Attached	
TRAC	KING # RR-02-31 28 10/16/91	
	CERTIFICATE OF COMPLIANCE	
We certify that the rules of the ASME	statements made in the report are correct and this REPLACEMENT repair or replacement Code, Section XI.	conforms to the
Type Code Symbol	Stamp NONE.	
	orization No. NONE.	
Signed	Owner or Owner's Designee, Title	19
	CERTIFICATE OF INSERVICE INSPECTION	
Owner's Report do of my knowledge in this Owner's Reconcerning the extension of the inspector nor	holding a valid commission issued by the National Board of Boiler and Prese State or Province of Tennessee and employed by HSATTTC have inspected the components described uring the period 10-20-97 to 4-7-99 and state and belief, the Owner has performed examinations and taken corrective measured in accordance with the requirements of the ASME Code, Section XI. Intificate neither the inspector nor his employer makes any warranty, express examinations and corrective measures described in this Owner's Report. Further this employer shall be liable in any manner for any personal injury or property arising from or connected with this inspection.	in this  that to the be asures describe  do or implied, hermore, neith
Inspecto Date 47	Commissions TN 2533  National Board, State, Province, and 19 99	I Endorsement

PAGE 50 OF 187

- (m)

\$10.220

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALV. As required by the Provisions of the ASMS. Code Rules

9.C.-48

	D.S.	TA	RE	PCRT	
Safety	134	SA:		Rettel	641100

NB-180

THE REPORT OF THE PARTY OF THE

L( )

じくくい

	DATA REPORT	
	Safety and Safety Remet Valves	
		C& Street Wrentham Ma 02093
	on Comery 41 Sendri	CK Street Wrentstam
Landariesed By Crosby Valve & L	Salve and Albin	a 20-73
. ·	- chinto	Contract Date 3-30-73
78-25-TD-56	ider 80 - 1020-4	
Westinghouse Ele	ectric Cosp., Nuclear	S - CSX-183421-BX
Mestricae	Precebucina Ran La La	Cree to 5= -CCZ-183421-BN
Manufactured For Energy 11 11	And Address	•
		Payor Station l'air \$7
Come Tennessee Valley Author	eiry. Warr Rar Suchear	Alian Land
Cooks TRIME STEE	Same and Auc.	
Location of Plant Near Spring Ci	37391	
Sear Spring Cl	ra lennessee	
. Light the state of the state		19: 19: 25CA 569GO Rev. A
RV-2-3123-WBT		
" Lyine locatives in warmen		iniel 2 Outies3
	Conne 2 e	Pipe Size intet Outlet 1 mr.;
Tipe Zelist		3
Safety Salety Helief Paul Pour		TSO®
Set Pressure (PSIG) 150		· ·
P 34t Manage 11 and		alise
A	TO CONTINES	Sur Blown an Make Okt
Francis 190 GP4 Kare	I	
Hydrocume Test (PSIG) Iniet	Ou	tlet in
	/25 x0xxx	XXXXX
Hydrostatic Test (PSIG) Iniet  7. The material, design construction and	3.8.d	
7. The material, design construction and Class 2 Edition		O FROM BEST
	FILMER	LABLE COPY
Pressure Containing or Pressure Red	AVAIL	
•		Materia, Specification
	Settal No	lactuding tipe or Grice
Contract	(dentification	ASTM-A351-72 GT. CFU!!
a. Castings		19VT C1351 GE. (19M
	No0135-33-000;	(cm;_4)16=76 Gr. %60
<b>Bod</b> y	/	1802-54215 Gr. VC3
	N90444-11-0005	And the second s
Bonnet		
b. Bur Stock and Forgings		<del>-</del>
b. Bar Stock aust Tinking		The state of the s
Support Rods		C1/70 Time 316
	N90137-47-0037	ASTM-4-79-71 Type Jib
Matzie		AST - 54479 Tugo 136
	N90449-32-6043	15TY-1193-70 Ux. (35
Disc Insert	3-9967:0231	1317 3193 Cr 36
Top Sector Washers Bottom	13:634-44-0161	1974-4193-70 GT. 36
Spring Washers Bot Com		13 4 3 3 6 3 6 3 6 5 8 6 5 6 5 6 5 6 5 6 5 6 6 6 6 6 6 6
and Salt	N88635-13-C197	
Adjusting Bolt	N88669-39-0124	ASME-SA193 Cr. 36
eadle	NCOUNTY MAN	50 220 54114-1 0 229
<u>Spindle</u>		30 220 54114-1 (0 224)
		nuo.
		LOCAL NO. 5A
•		
1 ! }	HARD COPY RETAINED	-2/3 A
	HARD COPY RETAINED	209 NO. 76-5213 A 71-1

5,0,220 Material Specification Secret No. or Including Type or Grade Identification ASTICATION TWO THE 7X - 150.6 - 0... e. Senra THE OWNER WASHINGTON THE OWNER OF THE d. Boiting ASTM-A453-70 0: 2:0 ASME-SSA53 0: 2:0 ASTM-A193-11 W.C. 15 ASME-SA193 0: 3: e. Other Parts such as Pilot Components - 86355 Bonner Sred 49747 Bennet Stud Mit ٠. .... We certify that the statements made in this report are a medi-9-23:9 77 Signed Creaty Table & Circe Co. B. QA Mahager Ma ulariutes and etpues October Certificate of Authorization No. ... FILMED FROM BEST AVAILABLE COPY HARD COPY RETAINED TO ATTEICATE OF SHOP INSPECT 15 fothe understaned brilding a value of mission is seed by the buy only Solard of Baller and inspected the equipment described in the plant Report of \_ state that to the best of my knowledge and nebel, the Manufa in the man constituted this equip ment in accordance with the applicable Subsections of ASME Section III By signing this certificate, neutron the instector for mix et al. wer makes any warranto lespressed of implied. Incertify the mountain described in the Tana Record European terms. the Inspector for this end being shall be a anise in any manner for any personal injury or property 7.7 damage or a life of a company tribute from the innerted with the important 1.14 ON ON \*Arkwright-Boston .. Palaceuters ...tial Insurance company Boiler & Machinery Division.

PAGE

1. Owner TEN	NESSEE VALLEÝ AU	ITHORITY	Date _	10/07/98				
400 W.	Name Summit Hill Drive, Kr	noxville, TN	Sheet	0	f			
2. Plant Watt	Address s Bar Nuclear Plant		Unit U	Unit 1				
P. O. B	Name P. O. Box 2000, Spring City, TN, 37381		MMG 98-008211-008					
3. Work Perform	Address ed by WATTS BAR NU	JCLEAR PLANT	Type Co	Repair Or ide Symb	ganization P. ool Stamp	0. No., N/A	Job No., etc.	
	·	lame	Authoriz	ation No	N/A			
,	Address		Expiration	on Date	N/A			
4. Identification	of system 068, REA	CTOR COOLANT						
5. (a) Applicable	Construction Code	ASME SEC. III. 19. 71	Edition	W'72	Addenda		NE. Cod	le Case
(-) · · · · · · · · · · · · · · · · ·		(Sinc Ses. iii 13 / i	Caldon,	•••	Addelida	1 -		
, , , ,	_	Utilized for Repairs of	,		1989		<del></del>	
(b) Applicable	Edition of Section XI		or Replac	ements	1989 			
(b) Applicable  6. Identification	Edition of Section XI	Utilized for Repairs of ired or Replaced and	Replace	ment Cor	1989	Year	Repaired, Replaced, or	ASME Code Stampe (Yes o
(b) Applicable 6. Identification  Name of Componer	Edition of Section XI of Components Repair nt Name of Manufacturer CROSBY VALVE	Utilized for Repairs of red or Replaced and Manufacturer Serial No.	Replace Replace Nationa Board N	ment Cor	1989 	Year Built	Repaired,	ASME Code Stampe (Yes of
(b) Applicable 6. Identification  Name of Componer  1-RFV-068-0563	Edition of Section XI of Components Repair nt Name of Manufacturer CROSBY VALVE CROSBY VALVE	Utilized for Repairs of ired or Replaced and Manufacturer Serial No.	Replace Replace Nationa Board N	ment Cor	1989 mponents	Year Built	Repaired, Replaced, or Replacement REPLACE	ASME Code Stampe (Yes of No)
(b) Applicable 6. Identification  Name of Componer  1-RFV-068-056	Edition of Section XI of Components Repair of Name of Manufacturer CROSBY VALVE CROSBY VALVE CROSBY VALVE	Utilized for Repairs of ired or Replaced and Manufacturer Serial No.  NS6964-10-0033	Nationa Board N	ment Cor	1989 mponents	Year Built /983	Repaired, Replaced, or Replacement REPLACE	ASME Code Stampe (Yes or No) YES
(b) Applicable 6. Identification  Name of Componer  1-RFV-068-0563  1-RFV-068-0563	Edition of Section XI of Components Repair of Name of Manufacturer CROSBY VALVE CROSBY VALVE CROSBY VALVE CROSBY VALVE CROSBY VALVE	Utilized for Repairs of ired or Replaced and Manufacturer Serial No.	Nationa Board N	ment Cor	1989 Inponents Identification	Year Built /983 /983	Repaired, Replaced, or Replacement REPLACE MENT REPLACE MENT REPLACE	ASME Code Stampe (Yes or No) YES
(b) Applicable 6. Identification  Name of Componer  1-RFV-068-056	Edition of Section XI of Components Repair of Name of Manufacturer CROSBY VALVE CROSBY VALVE CROSBY VALVE CROSBY VALVE CROSBY VALVE	Manufacturer Serial No.  M56964-10-0034 N56964-10-0029	Nationa Board N	ment Cor o Other 1 STI BOL	1989 mponents Identification	Year Built /983 /983	Repaired, Replaced, or Replacement REPLACE MENT REPLACE MENT REPLACE MENT REPLACE	ASME Code Stampe (Yes o No) YES YES
(b) Applicable 6. Identification  Name of Componer  1-RFV-068-056  1-RFV-068-056  1-RFV-068-056  1-RFV-068-056	Edition of Section XI of Components Repair of Components Repair of Components Repair of Canal Manufacturer CROSBY VALVE CROSBY VALVE CROSBY VALVE CROSBY VALVE CROSBY VALVE	Manufacturer Serial No.  M56964-10-0034 N56964-10-0029	Nationa Board N 906 905 907	nent Cor Other  1 STI BOL 2 STI	1989 mponents Identification	Year Built /983 /983 483 4/A	Repaired, Replaced, or Replacement REPLACE MENT REPLACE MENT REPLACE MENT REPLACE MENT REPLACE	ASME Code Stampe (Yes or No) YES YES

8. Tests Conducted: Hydrostatic 

Pneumatic 

Nominal Operating Pressure X\* Pressure 2235

\* TO BE PERFORMED BY 1-TRI-68-6.

Other 🗆

psi

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x

Test Temp 650

\*TO BE PERFORMED BY 1-TRI-68-6.
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.

	IESSEE VALLEY AU	THORITY	Date 10	/07/98			
400 W.	Name Summit Hill Drive, Kr	noxville, TN	Sheet	of			
2. Plant Watt	Address s Bar Nuclear Plant		Unit Un	it 1			
P. O. B	Name ox 2000, Spring City,	TN, 37381	MMG 98-0	08211-008			
3. Work Perform	Address ed by WATTS BAR NU	ICLEAR PLANT	Type Code	tepair Organization P. Symbol Stamp	0. No., N/A	Job No., etc.	
P.O. BOX 2000,	SPRING CITY, TN 3	lame 7381	Authorizati	ion No N/A			
,	Address		Expiration	Date N/A		-	
4. Identification of	f system 068, REA	CTOR COOLANT	··				
· / / / /	Edition of Section XI of Components Repai	·	·		<del></del>	· · · · · · · · · · · · · · · · · · ·	ACAE
Name of Componen	t 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		N 56964-10-0095				REPLACED	YES
1-RFV-068-0564	CROSBY VALVE	N56964-10-0097		PR		REPLACED	YES
1-RFV-068-0565	CROSBY VALVE	N5644-10-0096		·		REPLACED	YES
	i				ļ	ļ	
		;					
7. Description o	f Work Remov	Jest)					

### WO # 98-008211-008

FORM NIS-2 (Back)
9. Remarks Applicable Manufacturer's Data Reports to be Attached
TRACKING # RR. 02-33 Let 10/08
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.
T 0 / 0   10   NOVE
Type Code Symbol Stamp NONE.
Certificate of Authorization No. NONE.
Signed Af-Willi MAINT. SPEC. Date 4/4 19 70  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 #SET+T Co.
of Harfford, CT have inspected the components described in this
Owner's Report during the period 10-20-99 to 46-99 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.
Tiloren
Inspector's Signature Commissions 7/2533  National Board, State, Province, and Endorsements
1/ 1/ 00
Date



## CROSSY VALVE & GAGE COMPANY WRENTHAM, MASS

### FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES As required by the Provisions of the ASME Code Rules

Q.C.-44C-1

### DATA REPORT Safety and Safety Relief Valves

, ,			
1. *	taxufactured By Crosby Valve &	Gage Co., 45 Kendrick S	t., Wrentham, MA 02003
		MANUE AUGU AUGUSTA	——————————————————————————————————————
- h	todel No. HB-86-8 Order No. N30	3153B Contract Date 1	Energy Systems,
	to and a P.O. Fox 3700	Pittshurah Balisaan	Energy Systems,
5. *	Name of the Name of Na	e and Address	Order No. 546-CCK-178353-BN,
3. 0	wner Tennesgee Val	lev Authority Warre Ra-	C/N #UIU
	,	Name and Address	/ OCCOPA A !! CAR
1. I	ocation of Plant Sort City.	TN 37381	W860811K0101 (2)
s. v	Valve Identification 6RV33MSC	Serial No. 156964-06-0034	Drawing No. DS-C-56964-6 Rev. E
•	Safety Safety Relief Pilot Power	Actuated Profice Size 2.154	Pipe Size Inlet 6 Outlet 6
8. S	et Pressure (PSIC) 2485		4
			650 F. Rated Temperature
S	tamped Capacity 420,006 lbs/h	T 3 T Over	5Z Blowdown (PSIG) 125
•		- Coverpresser	2% Ploadoau (b2lC)
ŀ	lydrestatic Test (PSIG) Inlet	_4575 Complete 5	/alve
			-
	he material, design, construction and w		
	1 1071		
	lass Fdition 19/1	Addanda Daga Win	ter 1972
_	Hass Edition 19/1		ter 1972,Case No
	Pressure Containing or Pressure Retains	FIL	MED FROM BEST VAILABLE COPY
	Pressure Containing or Pressure Retains	FIL	MED FROM BEST VAILABLE COPY
	Pressure Containing or Pressure Retains	ing Components FIL	MED FROM BEST
	Pressure Containing or Pressure Retains	Ing Components  Serial No.	MED FROM BEST VAILABLE COPY  Material Specification
	Pressure Containing or Pressure Retains Far Stock & Forgings	Serial No. Identification	MED FROM BEST VAILABLE COPY  Material Specification Including Type or Grade
	Pressure Containing or Pressure Retains  Bar Stock & Forgings  Example  Body	Serial No. Identification  N90490-33-0053	MED FROM BEST VAILABLE COPY  Material Specification Including Type or Grade  ASME SAIGE Gr. F316
	Bar Stock & Forgings  Body  Connet	Serial No. Identification  N90490-33-0053	MED FROM BEST VAILABLE COPY  Material Specification Including Type or Grade  ASME SAIGE Gr. F316
-34/5	Pressure Containing or Pressure Retains  ar Stock & Forgings  MAKEN  Body  Connet	Serial No. Identification  N90490-33-0053	MED FROM BEST VAILABLE COPY  Material Specification Including Type or Grade  ASME SAIGE Gr. F316
(5	Pressure Containing or Pressure Retains  ar Stock & Forgings  MAKEN  Body  Connet  KANCHERE MARKET  Support Rods	Serial No. Identification N90490-33-0053 N90353-36-0054 N94209-31-0003 N90553-32-0045	MED FROM BEST VAILABLE COPY  Material Specification Including Type or Grade  ASME SAIGE Gr. F316  ASME SAIGS Gr. II
83-34/5	Pressure Containing or Pressure Retains  ar Stock & Forgings  Sody  Connet  Connet  Support Rods  Nozzle	Serial No. Identification  N90490-33-0053  N90353-36-0054  N94209-31-0003  N90553-32-0045  N90150-36-0055	MED FROM BEST VAILABLE COPY  Material Specification Including Type or Grade  ASME SAIGE Gr. F316  ASME SAIGS Gr. II
83-39/5	Body Bonnet  Support Rods  Nozzle  Disc Holder K57220-32-0046	Serial No. Identification  N90490-33-0053  N90353-36-0054  N94209-31-0003  N90553-32-0045  N90150-36-0055	MED FROM BEST VAILABLE COPY  Material Specification Including Type or Grade  ASME SAIGE Gr. F316  ASME SAIGS Gr. II  ASME SAIGE Gr. F316  ASME SAIGE Gr. F316  ASME SAIGE Gr. F316  ASME SAIGE Gr. F316
No. 83-39/5	Pressure Containing or Pressure Retains  ar Stock & Forgings  Body  Connet  Karnesser-Arrangusk  Support Roda  Nozzle  Disc Holder K57220-32-0046  Spring Washers K56380-37-0081	Serial No. Identification  N90490-33-0053  N90353-36-0054  N94209-31-0003  N90553-32-0045  N90350-34-0145  N90350-34-0148  N90351-38-0085	MED FROM BEST VAILABLE COPY  Material Specification Including Type or Grade  ASME SAIGE Gr. F316  ASME SAIGS Gr. II  ASME SAIGS Gr. F316  ASME SAIGS Gr. F316
83-34/5	Pressure Containing or Pressure Retains  ar Stock & Forgings  Nozement  Support Rods  Nozzle  Disc Holder K57220-32-0046  Spring Washers K56380-37-0081  Adjusting Bolt	Serial No. Identification  N90490-33-0053  N90353-36-0054  N94209-31-0003  N90553-32-0045  N90350-34-0145  N90350-34-0148  N90351-38-0085	MED FROM BEST VAILABLE COPY  Material Specification Including Type or Grade  ASME SA102 Gr. F316  ASME SA105 Gr. II  ASME SA192 Gr. F316  ASTM A637 Gr. 718  ASME SA105 Gr. II  ASME SA105 Gr. II  ASME SA103 Gr. B6
No. 83-39/5	Pressure Containing or Pressure Retains  ar Stock & Forgings  Body  Bonnet  KANCHARLEMON RESIDENCE  Support Rods  Nozzle  Disc Holder K57220-32-0046  Spring Washers K56380-37-0081  Adjusting Bolt  Spindle Point K56381-34-0022	Serial No. Identification  N90490-33-0053  N90353-36-0054  N90353-32-0045  N90350-34-0145  N90351-38-0085  N90354-34-0022	MED FROM BEST VAILABLE COPY  Material Specification Including Type or Grade  ASME SA102 Gr. F316  ASME SA105 Gr. II  ASME SA193 Gr. 718  ASME SA193 Gr. B6  ASME SA193 Gr. B6

ACE 560F 187

		Serial No. or Identification	Material Specification  Including Type or Grade
c. Spring K5638	0-37-0081	NX2761-0068	ASTM A3G4 Gr. 51B60H
d. Bolting			
e. Other Parts such a	is Pilot Components		
Bonnet Stud		100987	ASME SA453 Gr. 660
Bonnet Nut		89997	ASME SA193 Gr. B6
Inlet Stud		N90488	ASME SA453 Gr. 660
Inlet Nut		N90489	ASME SA193 Gr. 86
		is report are correct.  Crosby Valve & G	age Co. By Specen
		Manufacturer	71
Certificate of Author	ization No. 187	3 expires _	September 30, 1983
			FILMED FROM BEST

### AVAILABLE COPY

#### CERTIFICATE OF SHOP 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 Tides.	
Arkyright-soston Manufacturers Mutual Insurance Company have	
inspected the equipment described in this Data Report on	
state that to the best of my knowledge and belief, the Manufacturer has constructed this equi-	
ment in accordance with the applicable Subsections of ASME Section III.	· p~

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data 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.

•		the pection.	
Date M	05-12 1983	Factory Mutual System	
// Jo Med	Commissions	NB # 7883 : MA 1274	_
/ (Inspector)		National Board, State, Province and No.	)
			_

## C R O S B Y

# WRENTHAM, MA

Q.C.-292, REV.A SHEET 1 OF 2

PAGE 58 OF 187

# REPAIR AND REPLACEMENT TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Ξ			
Ξ	1.	Work performed by Crosby Value & Co.	≐
Ξ		Work performed by Crosby Valve & Gage Company 43 Kendrick St. Wrentham, MA 02093	E
Ш		(Name and Address) (Repair organization's P.O. No., Job No., etc.). NV4000329	E
≡			.E
Ξ	2.	Owner TENNESSEE VALLEY AUTHORITY KNOXVILLE, TN	恒
∄	<u> </u>	(Name and Address)	E
$\exists$			JE
Ξ	٦.	Name and Identification of Nuclear Power Plant WATTS BAR NUCLEAR PLANT	Ē
∄			E
∄	4	Address of Nuclear Review Communications	上
크		Address of Nuclear Power Plant SPRING CITY TN 37381	E
∄	5.	a. Identifying Nos. N56964-10-0034 907 -	丰
∄		1983 6	E
∄		b. Identification of component repaired or replacement component SAFETY VALVE  C. Name of Magnification (CROSPY VALVE a Component SAFETY VALVE	E
∄		c. Name of Manufacturer CROSBY VALVE & GAGE COMPANY	E
I		IN THE PARTY	E
∄			듣
∄	6.	Tests conducted: Hydrostatic (X.) Pneumatic ( ) Design Pressure ( ) Pressure 4575.0 psi	
∄	1		臣
₹	. 4	stification of System	E
∄	ρ	Applicable Service (1)	巨
∃	٥.	Applicable Section(s) III of ASME Code, 19 71 Edition	
∄		Addands 10/70	E
크		Addenda W72 Code Case	屋
=	9.	Description of work VALVE MODIFICATION	
3		(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)	⊨
1		and streetly identified)	巨
1			
1			$\equiv$
1	10.	Remarks: VALVE SERIAL NUMBER N56964-06-0034 WAS MODIFIED TO	E
1	<i>,</i>	VALVE SERIAL NUMBER N56964-10-0034 NOZZI E N04300 1446	
1		TEFCACED TO N90523-33-0006 RELLOWS ASSEMBLY VETTORS 1440 410	
1			≣
1		N96522-32-0013.THE INLET STUDS WERE REPLACED WITH TRACE#YB2 OTY 6 THE INLET MUTS WERE REPLACED WITH	$\equiv$
}	•	TRACE#YB2 QTY 6.THE INLET NUTS WERE REPLACED WITH TRACE #OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE AND SEAT LEAKAGE IN ACCOUNTS.	$\equiv$
1		AND SEAT LEAKAGE IN ACCORDANCE WITH TEST PROCEDURE T-16690.	$\equiv$
1		THE TEST PROCEDURE 1-16690.	$\equiv$
1			
ı			$\equiv$
I			$\equiv$
1			≓
ı			$\equiv$
	•		$\equiv$
			∄
			$\equiv$
1			Ξ
L			≣
=			$\exists$
		WBN-7VA-795-0474	_
		10 20:01	
		PAGE 38 OF 5C	
:		了一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	

AGE SPOR 10

(Inspector)

Commissions NB/0389 N MA-1419
(Nat'l. Bd., State, Prov. and No.)

WBN-TUN R95-0474
PAGE 39 OF 56

 $C R O S \overline{B} Y$ 

### CROSBY VALVE & GAGE COMPANY WRENTHAM, MA

Q.C.-257, REV. B

FACTORY ORDER NUMBER: NV4000329

CUSTOMER ORDER NUMBER: 94N3F-101699-001

VALVE SERIAL NUMBER: N56964-10-0034

VALVE TAG NUMBER: N/A

# REPAIR CERTIFICATION REPORT

Description of Repair:

VALVE SERIAL NUMBER N56964-06-0034 WAS MODIFIED TO VALVE SERIAL NUMBER N56964-10-0034. NOZZLE N94209 WAS REPLACED WITH N96523-33-0006 (CMTR, LP, UT AND WT REPORT ATTACHED). BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0006. DISC INSERT N94210 WAS REPLACED WITH N96522-32-0013 (CMTR, LP, UT AND WT REPORTS ATTACHED). THE INLET STUDS WERE REPLACED WITH TRACE#YB2 QTY 6 (CMTR, LP ATTACHED). THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12 (CMTR, MAG ATTACHED). THE VALVE WAS REASSEMBLED, HYDROSTATICALLY, SET PRESSURE AND SEAT LEAK TESTED IN ACCORDANCE WITH T-16690 (REPORT ATTACHED). VALVE WAS INSPECTED TO DS-C-56964-10 AND PACKAGED IN ACCORDANCE WITH P-1769. VALVE IS IN ACCORDANCE WITH SPEC.G-678838 REV.0.

Octoral allsured

WBN-TVA-R95-0474
PAGE 40 OF 56

23 JANUARY 1995 DATE

## CROSBY

T. NO. 4167-ASBAS

٥

### CROSMY VÁLVE & GÁGE COMPANY WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES
Ar required by the Provisions of the ASME Code Rules

Q.C.-44C-1

DATA REPORT
Safety and Safety Relief Valves

W860811K0099

•	
/	_
1	$\sim$
	_
l	
٦.	_

PAGE 61 OF

	Salety and Salety Relief Val	ves 00001110033
Manufactured By Crosby Malve	& Gage Co. 41 Years	k St., Wrentham, MA 02093
	Name and Address	K St., Wrentham, MA 02093
Model to H3-86-8P-4 N	3031538	1/0//05
West inchouse	Contract Dat	e 1/26/83 National Board No. 9
Hamiltonian Soc. P.O. Box 370	OO Pirahumi n. 100	ear Energy Systems,
Handiactured For 11.9. Box 370	ame and Address	ear Energy Systems, 30 Order No. <u>545-CCK-178353-</u>
		C/V +010
Owner Tennessee Vi	lley Authority, Watts	Bar Nuclear Power Station
	Name and Address	
Location of Plant Spring City	. TN 37381	
. Valve [dentificationORVG8MSC	Serial No N56964-03-0	0033 Drawing No. DS-C-56964-6 Rev.
Type Safety	Onfice Size 2	154 pize Size inlet 6 Juilet 6
Salety, Salety Reiser, Pilot, Powe	i Actuated	inch Inch Inch Inch
Set Pressure (PSIG) 2485	·	650
		Rated Temperature
Stand C 420 006 15g/	/h= 3	
Stamped Capacity	Overpres	saure 57 Blowdown (PSIG) 125
Class 1 Edition 197	1Addenda Dare_	Hinter 1972 ,Case No
Pressure Containing or Pressure Retai	ining Components	FILMED FROM BEST AVAILABLE COPY
Bar Stock & Forgings	Serial No.	:
1. CHUNK	Identification	Material Specification Including Type or Grade
	N00100 22 0015	
Body	(N90490-33-0047)	ASME SAISZ Gr. F316
Bonnet	N90353-36-0059	ASME SALOS Gr. II
		. Jan Janus Gr. II
TO SERVICE CONTROL OF THE PROPERTY OF THE PROP	•	
Support Rods		
Nozzie	N94209-31-0001	ACME CALCO C
		ASME SA182 Gr. F316
Disc Holder K57220-32-004		ASTM A637 Cr. 718
Spring Washers K56380-37-006	NON 150-1/	
		ASME SA105 Gr. II
Adjusting Bolt	N90351-39-0091	ASME SAI93 Cr. 86
Spindle Point K56381-39-008	9 N90354_42_0106	
ł		27.79
Spindle Ball		ASME SA193 Cr. 36
	N90355-0089	ASTM A276 Type 440C
Disc Insert	M90355-0089 N94210-33-0012	

	Serial No. or	Material Specification
	[dentification	Including Type or Grade
c. Spring K56380-37-0065	NX2761-0073	ASTM A304 Gr. 51360H
d. Bolting		
e. Other Parts such as Pilot Components		
Sonnet Stud	100987	ASME SA453 Gr. 660
Bonnet Nuc	89997	ASME SA193 Gr. 36
Inlet Stud	N90488	ASME SA453 Gr. 660
Inlet Nut	N9C489	ASME SA193 Gr. B6
he certify that the statements made in the DateS[11]_19 83 Signed	Crosby Valve & G	age Co. By Street
Certificate of Authorization No. 187	mandiacturer	September 30, 1983

FILMED FROM BEST AVAILABLE COPY

### CERTIFICATE OF SHOP INSPECTION

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data 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.

Date 105-11- 1983	Factory Mutual System
///stype	NB = 7883; MA 1274
/ // (Inspector)	National Board, State, Province and No.1

## C R O S B Y

## WRENTHAM, MA

Q.C.-292, REV.A SHEET 1 OF 2

## REPAIR AND REPLACEMENT TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1	
1 1	
4 ' •	. Work performed by Crosby Valve & Gage Company 43 Kendrick St. Wrentham, MA 02093
1	(Name and Address)
1	
<u></u>	(Repair organization's P.O. No., Job No., etc.). NV4000329
<u> </u>	
<u> 1</u> 2.	. Owner TENNESSEE VALLEY AUTHORITY KNOXVILLE, TN
1	(Name and Address)
<b>)</b>	
13	. Name and Identification of Nuclear Power Plant WATTS BAR NUCLEAR PLANT
1	E COMMISSION OF MACION FOWER FINIT WAT TO BAN NUCLEAR PLANT
<u></u>	
1	
4.	. Address of Nuclear Power Plant SPRING CITY ,TN 37381
¥	
5.	. a. Identifying Nos. N56964-10-0033 906 1983
1 -	(Maria Carial No.) (Maria Cd. N.)
1	
1	b. Identification of component repaired or replacement component SAFETY VALVE
1	c. Name of Manufacturer CROSBY VALVE & GAGE COMPANY
=	
	sts conducted: Hydrostatic (X ) Preumatic ( ) Decise Green ( ) Preumatic (
	sts conducted: Hydrostatic (X ) Pneumatic ( ) Design Pressure ( ) Pressure 4575.0 psi
] -	
1/	. Identification of System
3	
8.	. Applicable Section(s) III of ASME Code, 19 71 Edition
3	A STATE OF THE PARTY OF THE PAR
1	Addenda W72
1_	Addenda W7.2 Code Case
1	
19	. Description of work YALVE MODIFICATION
1	(Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)
1	
1	
4	<u></u>
١.	O Remarks, VALVE SERIAL NUMBER NESCOCA OS CODO MAS A CO
1	O.Remarks: VALVE SERIAL NUMBER N56964-06-0033 WAS MODIFIED TO
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS  REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO  K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS  REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO  K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH  N96522-32-0011.THE INLET NUTS WERE REPLACED WITH
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS  REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO  K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH  N96522-32-0011.THE INLET NUTS WERE REPLACED WITH
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE AND SEAT LEAKAGE IN ACCORDANCE WITH TEST PROCEDURE T-16690.
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE AND SEAT LEAKAGE IN ACCORDANCE WITH TEST PROCEDURE T-16690.
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE AND SEAT LEAKAGE IN ACCORDANCE WITH TEST PROCEDURE T-16690.
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE AND SEAT LEAKAGE IN ACCORDANCE WITH TEST PROCEDURE T-16690.  WBM-TUA-R95-0474 PAGE 21 0F 56
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE AND SEAT LEAKAGE IN ACCORDANCE WITH TEST PROCEDURE T-16690.
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE AND SEAT LEAKAGE IN ACCORDANCE WITH TEST PROCEDURE T-16690.  WBM-TUA-R95-0474 PAGE 21 0F 56
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE AND SEAT LEAKAGE IN ACCORDANCE WITH TEST PROCEDURE T-16690.  WBM-TUA-R95-0474 PAGE 21 0F 56
1	VALVE SERIAL NUMBER N56964-10-0033.NOZZLE N94209 WAS REPLACED TO N96523-33-0005. BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011.THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12.THE VALVE WAS TESTED FOR SET PRESSURE AND SEAT LEAKAGE IN ACCORDANCE WITH TEST PROCEDURE T-16690.  WBM-TUA-R95-0474 PAGE 21 0F 56

Ă	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in this report are correct and all design, material, and workmanship on this MOD conforms to the applicable section of the ASME Code.  (repair/replacement)
	Signed OA Co Manager 13 1995  (Authorized Rep. of Repair Organization) (Title) (Date)
	(Authorized Rep. of Repair Organization) (Title) (Date)
	WBN-7/A P/S 3 474 PAGE 22 OF 24
	CERTIFICATE OF 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 Massachusetts and employed by Factory Mutual of Norwood, Massachusetts have inspected the repair or replacement described in this report on Space of Policy 23, 19 25 and state that to the best of my knowledge and the first report on Space of Policy 23, 19 25 and state that to the best of my knowledge and the first report on Space of Policy 23, 19 25 and state that to the best of my knowledge and the first report on Space of Policy 23, 19 25 and state that to the best of my knowledge and the first report on Space of Policy 23, 19 25 and state that to the best of my knowledge and the first report on Space of Policy 23, 19 25 and state that to the best of my knowledge and the Space of Policy 24 and Space of Policy 25 and
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual of Norwood Massachusetts have inspected the repair or replacement described in this report on has been made or constructed in accordance with the applicable section of the ASME Code.  By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the repair or replacement described in this 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 courties to the semployer.
	CERTIFICATE OF 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 Massachusetts and employed by Factory Mutual of Norwood, Massachusetts have inspected the repair or replacement described in this report on has been made or constructed in accordance with the applicable section of the ASME Code.  By signing this certificate, neither the Inspector for his employer makes any ways.
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual Norwood Massachusetts have inspected the repair or replacement described in this report on has been made or constructed in accordance with the applicable section of the ASME Code.  By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the repair or replacement described in this 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.  Date 1-33 1995  Commissions NB 10389 N MA1418
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual have inspected the repair or replacement described in this report on has been made or constructed in accordance with the applicable section of the ASME Code.  By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the repair or replacement described in this 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.  Date 1-23 1995  Factory Mutual Systems

PAGE 64 OF 187

C R O S B Y

# CROSBY VALVE & GAGE COMPANY WRENTHAM, MA

Q.C.-257,REV.B

FACTORY ORDER NUMBER: NV4000329

CUSTOMER ORDER NUMBER: 94N3F-101699-001

VALVE SERIAL NUMBER: N56964-10-0033

VALVE TAG NUMBER: N/A

# REPAIR CERTIFICATION REPORT

Description of Repair:

VALVE SERIAL NUMBER N56964-06-0033 WAS MODIFIED TO VALVE SERIAL NUMBER N56964-10-0033. NOZZLE N94209 WAS REPLACED WITH N96523-33-0005 (CMTR, LP, UT AND WT REPORT ATTACHED). BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0005. DISC INSERT N94210 WAS REPLACED WITH N96522-32-0011 (CMTR, LP, UT AND WT REPORTS ATTACHED). THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY 12 (CMTR, MAG ATTACHED). THE VALVE WAS REASSEMBLED, HYDROSTATICALLY, SET PRESSURE AND SEAT LEAK TESTED IN ACCORDANCE WITH T-16690 (REPORT ATTACHED). VALVE WAS INSPECTED TO DS-C-56964-10 AND PACKAGED IN ACCORDANCE WITH P-1769.

WBN-TUA-R95-0474 PAGE 23 OF 56

Quality ASSURANCE

23 JANUARY 1995 DATE PACE ASTOR 107

## CAOSBY

## ROSBY VALVE & GAGE COMPANY WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES
As required by the Provisions of the ASME Code Rules

Q.C.-44C-1

		DATA REPORT Safety and Safety Relief Vi	alves	Waana	11 K O O	98 (
1	. Manufactured By Crosby Valve &	Name and Address		-		
	West Inghouse E	153B Contract Da Lectric Corp., Nuc.	te 1/26/ lear Ener	83 Nationa	l Board No.	705
2	Manufactured For 1.0. BOX 3700.	ricesburgh, PA 15.	230	_ Order No	346-CCK-178	353-ви,
	,,				C/ N	\$010
	3. Owner Tonnessee Vall	Name and Address			Station	
•	. Location o. Plant SET - City, 1	N 37381				
5	. Valve Identification	_Serial Mal N56564-06-	-0029 Dra	ring No. DS-C	:-56964-6 R	2v. E
	Type Safety Safety Safety Relief, Polici, Power A	Onfice Size	2.154 Pipe	Size I	niet 6 Outle	ı ń
	2.00	ctuated	Inch			Inch
a	3. Set Pressure (PSIC) 2403			Rated Tem	o0 operature	F
	Stamped Capacity 420,006 lbs/hr	· a 3 = Overn				
	•		-	_ Bloaddau (b)	510)	<del></del>
	Hydrostatic Test (PSIG) Inlet	4575 Com	plete Valve	<del></del>	_	
7	. The material, design, construction and we	wkmanship comply with 15M	F Code Sec	tion fff		
	Class 1 Edition 1971					
	Luition	,Addenda Date		,	,Case No	
	Pressure Containing or Pressure Retaining		LMED FROM IVAILABLE (	I BEST		
	Bar Stock & Forgings	Serial No. [dentification		Unterial:	Specification Type or Grade	
	Body	N90490-32-0033	AS	ME SA:82 G	r. F316	
	Bonnet	N90353-36-0066	AS	ME SA105 G	r. II	
	by Amilianianiani					
	Support Rods				<del></del>	
	Nozzie	N94209-31-0002	AS	ME SA182 G	r. F316	
	Disc Holder K57220-32-0045	N90553-32-0049	AS	TM A637 Cr	. 718	
	Spring Washers K56380-40-0025	N90350-33-0074 N90350-33-0059	· AS	ME SA105 G	r. II	
	Adjusting Bolt	N90351-36-0076	•	ME SA193 G		<del></del>
	Spindle Point K56381-37-0052	N90354-36-0070	<del></del>	ME SA193 G		
<u>'</u> j	Spindle Ball	N90355-0052		TH A276 Ty		
	Disc Insert	N94210-33-0010		ME SA637 G		

PAGE 66 OF 107

AVAILABLE COPY

c. Spring RS6380-40-0025 d. Bolting	Serial No. or Identification NX2761-0051	Material Specification Including Type or Grade ASTM A304 Gr. 51860H
e. Other Parts such as Pilot Componer	nts	
Bonnet Stud	100987	ASME SA453 Gr. 660
Connet Nut	89997	ASME SA193 Gr. 36
Inlet Stud	990438	ASME SA453 Cr. 660
Inlet Nut	N90489	ASME SA193 Gr. B6
We certify that the statements made in	this report are correct.	
Date	ed Crosby Valve & Go	age Co. By Free Present
Certificate of Authorization No. 15		eptember 30, 1983 FILMED FROM BEST

### CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Scard of Soiler and Pressure Vessel Inspectors and the State or Province of Mass.

and employed by Arkwright-Boston Manufacturers Mutual Insurance Company have inspected the equipment described in this Data Report on 5-9-1923 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section 77.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data 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.

Date 05-11-1983 Factory Mutual System

| Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Part | Par

### C R O S B Y

### CROSBY VALVE & GAGE COMPANY WRENTHAM, MA

Q.C.-292, REV.A SHEET 1 OF 2

PAGE

### REPAIR AND REPLACEMENT TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

		TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS
		Work performed by <u>Crosby Valve &amp; Gage Company 43 Kendrick St. Wrentham. MA 02093</u> (Name and Address) (Repair organization's P.O. No., Job No., etc.). NV4000329
	2.	Owner TENNESSEE VALLEY AUTHORITY KNOXVILLE,TN (Name and Address)
	3.	Name and Identification of Nuclear Power Plant WATTS BAR NUCLEAR PLANT
且	4.	Address of Nuclear Power Plant SPRING CITY, TN 37381
	5.	a. Identifying Nos. N56964-10-0029 905 - 1983  (Mfr's Serial No.) (Nat'l Bd. No.) (Jurisdiction No.) (Other) (Year Built) b. Identification of component repaired or replacement component SAFETY VALVE c. Name of Manufacturer CROSBY VALVE & GAGE COMPANY
	7.	its conducted: Hydrostatic (X.) Pneumatic ( ) Design Pressure ( ) Pressure4575.0 psi  Identification of System
	8.	Applicable Section(s) III of ASME Code, 19 71 Edition  Addenda W72 Code Case
	9.	Description of work VALVE MODIFICATION  (Use of additional sheet(s) or sketch(es) is acceptable if correctly identified)
	10	Remarks: VALVE SERIAL NUMBER N56964-06-0029 WAS MODIFIED TO VALVE SERIAL NUMBER N56964-10-0029.NOZZLE N94209 WAS REPLACED WITH N96523-33-0004 BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0004.DISC INSERT N94210 WAS REPLACED WITH N96522-32-0010.THE INLET STUDS WERE REPLACED WITH TRACE# YB2 OTY 6.THE INLET NUTS WERE REPLACED WITH TRACE#OFG OTY 12.THE VALVE WAS TESTED FOR SET PRESSURE AND SEAT LEAKAGE IN ACCORDANCE WITH TEST PROCEDURE T-16690.
	•	
mummin		1700 TVA - 1295-01974 1700 2 10 51

352X1 32691

Q.C.-292, REV. A SHEET 2 OF 2

		看
.1	CERTIFICATE OF COMPLIANCE	
We certify that the statement: MOD (repair/replacement)	ts made in this report are correct and all design, material, and workmanship on this conforms to the applicable section of the ASME Code.	шишшшш
Signed Zoumens of	p. of Repair Organization)  (Title)  (Date)	
(Authorized Rep	p. of Repair Organization) (Title) (Date)	
47		
		7
	CERTIFICATE OF INSPECTION	
Inspectors and the State or F of Norwood, Massachusett	revalid commission issued by the National Board of Boiler and Pressure Vessel  Province of <u>Massachusetts</u> and employed by <u>Factory Mutual</u> Is have inspected the repair or replacement described in this report on a large and state that to the best of my knowledge and belief, this repair or replacement ed in accordance with the applicable section of the ASME Code.	
concerning the repair or replain shall be liable in any manner connected with this inspection	Factory Mutual Systems	
Date /- 23 , 19 / Signed /- (Inspector	15. 16 Commissions NB 10289 N MA 1418	

WBN-TUA-R95-0474

PAGE

DACE 69 OF

### C R O S B Y

## CROSBY VALVE & GAGE COMPANY WRENTHAM, MA

Q.C.-257, REV. R

FACTORY ORDER NUMBER: NV4000329

CUSTOMER ORDER NUMBER: 94N3F-101699-001

VALVE SERIAL NUMBER: N56964-10-0029

VALVE TAG NUMBER: N/A

# REPAIR CERTIFICATION REPORT

Description of Repair:

VALVE SERIAL NUMBER N56964-06-0029 WAS MODIFIED TO VALVE SERIAL NUMBER N56964-10-0029. NOZZLE N94209 WAS REPLACED WITH N96523-33-0004 (CMTR, LP, UT AND WT REPORT ATTACHED). BELLOWS ASSEMBLY K57220 WAS MODIFIED TO K83206-32-0004. DISC INSERT N94210 WAS REPLACED WITH N96522-32-0010 (CMTR, LP, UT AND WT REPORTS ATTACHED). THE INLET STUDS WERE REPLACED WITH TRACE#YB2 QTY 6(CMTR, LP ATTACHED) AND THE INLET NUTS WERE REPLACED WITH TRACE#OFG QTY12(CMTR, MAG ATTACHED). THE VALVE WAS REASSEMBLED, HYDROSTATICALLY, SET PRESSURE AND SEAT LEAK TESTED IN ACCORDANCE WITH T-16690

(REPORT ATTACHED). VALVE WAS INSPECTED TO DS-C-56964 -10 AND PACKAGED IN ACCORDANCE WITH P-1769. VALVE IS IN ACCORDANCE WITH SPEC.G-678838 REV.0.

QUALITY ASSURANCE

WBN-TUA-7295-0474
PAGE 4 GF 56

23 JANUARY 1995

DATE

#### WO # 98-012709-000

. Owner TENNESSEE VALLEY AUTHORITY  400 W. Summit Hill Drive, Knoxville, TN  Address Watts Bar Nuclear Plant  Name P. O. Box 2000, Spring City, TN, 37381  Address	Sheet	of			
P. O. Box 2000, Spring City, TN, 37381		<u> </u>			
P. O. Box 2000, Spring City, TN, 37381					
Address	MMG 98-0127	09-000			
3. Work Performed by WATTS BAR NUCLEAR PLANT	Repair Type Code Syl	Organization P. mbol Stamp	0. No., N/A	Job No., etc.	
P.O. BOX 2000, SPRING CITY, TN 37381	- Authorization ↑	No N/A			
Address	<ul> <li>Expiration Dat</li> </ul>	e N/A			
4. Identification of system 068, REACTOR COOLA	Γ				
5. (a) Applicable Construction Code ASME SEC. III	80 Edition, W'80	Addenda	, NOI	NE. Cod	ie Case
(b) Applicable Edition of Section XI Utilized for Re	irs or Replacement	ts 1989			
6. Identification of Components Repaired or Replace	and Replacement (	Components			
Name of Component Name of Manufacturer Manufacturer Ser	National No. Board No. Ott	ner Identification	Year Built	Repaired, Replaced, or Replacement	
1-PCV-068-0334-B TARGET ROCK S/N II (remove		32 UU	83	REPLACE	YES
1-PCY-068-0354 \$ [ARGOT 120016 5/N 4 (INSTA		zun	83	Roplece	yes
1 454-000 035-12 /12/2014	17454/6/80				
			-		
7. Description of Work REMOVE/REPLACE SAFE	Y RELIEF VALVE.				
8. Tests Conducted: Hydrostatic   Preumatic   Other   Pressure 2210-2	lominal Operating F 50 psi T	Pressure X 1 Test Temp 7	-TRI-6 750	88-6 .°F	
					01/ :-
NOTE: Supplemental sheets in form of lists, sketch 11 in., (2) information in items 1 through 6	es, or drawings ma In this report is inclu	y be used, pr uded on each	ovided sheet	d (1) size is t, and (3) ea	8½ in. ) ach shee

7/ OF 107

### WO # 98-012709-000

FORM NIS-2 (Back)
9. Remarks Applicable Manufacturers Data Reports to be Attached
приновия папавания з вам породу на намина
TRACKING # RR-02-35
N-546 CODE CASE
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this <u>REPLACEMENT</u> conforms to the repair or replacement rules of the ASME Code, Section XI.
Type Code Symbol Stamp NONE.
Certificate of Authorization No. NONE.
Signed H. F Mark ENGR Date 4-6 19 99
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 <u>Tennessee</u> and employed by <u>HSB I &amp; I</u>
of HARTFORD, CT have inspected the components described in
this
Owner's Report during the period 10-26-98 to 46-99 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.
Commissions TN2533
Inspector's Signature National Board, State, Province, and Endorsements
Date

## FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\* As Required by the Provisions of the ASME Code, Section III, Div. 1

Aanulactured for Len	nessee Valley A	uthority Char	der) Canooga, Tenn	essee		
ocation of Installation	Watts Bar Nucl	Purchaser or Owner) ear Plant, Uni	ts 1 & 2, Sp	ring Ci	ty. Tennes	see
rump or Valve	Valve	Nominal In	let Size(inch)	Out	tlet Size	(inch)
	)) N Certificate Holder	'S (c) Canadian				
Series No	Serial	•	(d) Drawing		(f) Nat'l.	(g) Year
or Type	No.	<u>No.</u>	No.	e) Class	8d. No.	<b>Built</b>
82tru	1,2,3,4	7-1	8200-001	Ţ		1983
2)						
3)			<u> </u>	6072	4KU53	2 (
						7
5)	<u></u>		Contract No.	<del> 8</del>	-31934	<del>/</del> -
7)						
8)			R.D. or S.T.		-202	
9)			209 No.	83-	2582	
10)						
Cold Working Pressure	(Brief descrip  2485 psi (Pressure) 4100 psi		h equipment was design	ned)	FILX _AY	AILAPLE (
Design Conditions Cold Working Pressure Pressure Retaining Pie	(Brief descrip  2485 psi (Pressure) 4100 psi	680 (Temperature)	h equipment was design	ned)	FILX _AY	_
Cold Working Pressure	(Brief descrip	680 (Temperature)	h equipment was design	ure Class	FILX _AY	AILAPLE (
Cold Working Pressure Pressure Retaining Pie	(Brief descrip	680 (Temperature)	F or Valve Press	ure Class	FILX	AILAPLE (
Cold Working Pressure Pressure Retaining Pie Mark No.	(Brief descrip	680 (Temperature)	F or Valve Press	ure Class	FILX	AILAPLE (
Cold Working Pressure Pressure Retaining Pie Mark No.	(Brief descrip	680 (Temperature)	F or Valve Press	ure Class	Remark	AILAPLE (
Cold Working Pressure Pressure Retaining Pie Mark No.	(Brief descrip	680 (Temperature)	F or Valve Press	ure Class	Remark	AILAPLE (
Cold Working Pressure Pressure Retaining Pie Mark No.	(Brief descrip	680  (Temperature) at 100°F.	F or Valve Press	ure Class	Remark	AILAPLE (
Cold Working Pressure Pressure Retaining Pie Mark No.	(Brief descrip	680  (Temperature) at 100°F.	F or Valve Press	ure Class	Remark	AILAPLE (
Cold Working Pressure Pressure Retaining Pie Mark No.	(Brief descrip	680  (Temperature) at 100°F.	F or Valve Press	r Aurra	Remark  ORIZED  6 1963  WE-3-	AILAPLE (
Cold Working Pressure Pressure Retaining Pie Mark No.	(Brief descrip	680 (Temperature)	F or Valve Press	ned)	Remark 0RIZED 08 1963	AILAPLE (
Cold Working Pressure Pressure Retaining Pie Mark No.	(Brief descrip	680  (Temperature) at 100°F.	F or Valve Press	ned)	Remark  08/22D  6 1963  w4-1	AILAPLE (
Cold Working Pressure Pressure Retaining Pie  Mark No.  (a) Castings	(Brief descrip	680  (Temperature) at 100°F.	F or Valve Press	ned)	Remark  08/22D  6 1963  w4-1	AILAPLE (
Cold Working Pressure Pressure Retaining Pie  Mark No.  (a) Castings  (b) Forgings	(Brief descrip	680 (Temperature) at 100°F.	F or Valve Press	ned)	Remark  08/22D  6 1963  w4-1	AILAPLE (
Cold Working Pressure Pressure Retaining Pie  Mark No.  (a) Castings	(Brief descrip	680 (Temperature) at 100°F.	F or Valve Press	ned)	Remark  08/22D  6 1963  w4-1	AILAPLE (
Cold Working Pressure Pressure Retaining Pie  Mark No.  (a) Castings  (b) Forgings	(Brief descrip	680 (Temperature) at 100°F.	F or Valve Press	ned)	Remark  08/22D  6 1963  w4-1	AILAPLE (
Cold Working Pressure Pressure Retaining Pie  Mark No.  (a) Castings  (b) Forgings	(Brief descrip	680 (Temperature) at 100°F.	F or Valve Press	ned)	Remark  08/22D  6 1963  w4-1	AILAPLE (

<sup>(1)</sup> For manually operated valves only.

<sup>\*\*</sup> Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets

(d) Other Parts Bonnet Main Disc			
Bonnet			
Bonnet	·		
Bonnet			
	<del></del>		
Main Disc ' \ \ \	ASME SA 479 SS 316	ARMCO	
Indicator Tube	ASMR 9A 479 SS 347	Joslyn	<del></del>
Flange	ASME SA 479 SS 316 ASME SA 182 SS 316	Universal Cyclops	
Seat Insert	ASME SA 479 SS 3161	Carpenter	
9999	<u> </u>	Joslyn	
			CIL TIE
			,
struction of the ASME Cool lenda Winter 1980 (Dete) ned Target Rock Co	de for Nuclear Power Plant Con Code Case No Drporation	nt and that this pump, or valve, con imponents. Section III, Juy, I., Edition	1980
IN Certificate Hold ASME Certificate of Author	1 <b>er</b> }	G. Abruzzo, Max. of Qu use the symbol ex	ality 12/9/83 (Oere)
	CERTIFICATION		
sign information on file at		Corporation	
eșs analysis report (Class 1 d	only) on file at Target Rock	Corporation	
sign specifications certified t	w (1) Marvin V. M	iller	
	Reg. No. 013995		<u> </u>
ess analysis certified by (1)		stone	
State NY F	Reg. No. 31940	,	
Signature not required. List	name only		
	Tiding Only.		

4	NA	•
1	7	
4		٠
•		ĺ
		•

CERTIFICATE OF SHOP 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 York and employed by Commercial Union Insurance
of
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data 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.
Date 124 A 19 83 NEW YORK STATE COMMISSION NO. 228  Commissions ALSO COMMISSIONED IN Penn., Ohio & Conn.

PAGE' 74 OF

#### WO # 98-000896-000

Owner 1	TENNES	SEE VALLEY AUT	HORITY D	ate 10/1	8/98			
400	Name 00 W. Summit Hill Drive, Knoxville, TN			heet	of			
Plant \	Address Watts Bar Nuclear Plant			Jnit <u>Unit</u>	. 1			
P. O. Box 2000, Spring City, TN, 37381				MMG 98-000898-000  Repair Organization P.O. No., Job No., etc.				
Work Per	formed l	Address by WATTS BAR NUC	CLEAR PLANT	Type Code	Symbol Stamp	N/A		
O. BOX 2	.000, SP	RING CITY, TN 37:	381 /	Authorizatio	on No N/A			
	į	Address		Expiration (	Date N/A			
Identifica			TY INJECTION					
(a) Applio	cable Co	onstruction Code A	SME SEC. III 19 71	Edition, S'	72 Addenda,	NON	√E. Cod ———	e Case
(b) Appli	cable Ed	tition of Section XI	Utilized for Repairs o	r Replacem	nents 1989	_		
. Identifica	ation of (	Components Repair	red or Replaced and I	Replaceme	nt Components			
				National		Year	Repaired, Replaced, or	ASME Code Stamped (Yes or
Name of Cor		Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Built	Replacement REPLACE	YES
-RFV-063-	-0626-A	CROSBY	W56702-00-0003	120	TB-35-TD-WR	75	MENT	
-RFV-063-	-0627-B	CROSBY	N56907-10-1004	121	13-35-TD-12	75	MENT	YES
-RFV-63.	637.5	CROSBY	NS6881-00-	255	Model JRAK-BS	77	REPLACE	YES
		1 . 4 . 5 4 × 4	N56902-00-000	137	1707EL	76	तुदामाटङ्	Yes
		Carry .		138	MODEC 18-35-70-WR	76	REPLACED	y ∈ S
1-9FV - 06		CROS BY	N56302-00-3010 N5634-10 41/A		MODEL TRAK-85	74	(٤٤) ۾ ايم ۽ ج	y∈ s
	3-0,7-5	CROSUT	-NECTOS 00 - 0001	100	11112			
1-RFV- 06.			N.			<del>                                     </del>		+
1-RFV- 06.						<u> </u>	<u> </u>	<u> </u>
1-2FV- 06.		1			\ / <b>=</b>			
	ption of	Work REMOVE/R	EPLACE SAFETY RI	ELIEF VAL	VC.			
7. Descri		ted: Hydrostatic 🗆	Pneumatic  Nomessure 600	inal Operat		-	°F	

DACE JEOF 18

#### WO # 98-000896-000

FORM NIS-2 (Back)	
9. Remarks Applicable Manufacturers Cata Reports to be Attached	estina
TRACKING # RR-02-36	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this REPLACEMENT conforms to the repair or replacement	he
rules of the ASME Code, Section XI.	
Type Code Symbol Stamp NONE.	
Certificate of Authorization No. NONE.	
Signed N - Will MAINT STAC. Date 4/2/ 19 97	<u> </u>
CERTIFICATE OF INSERVICE INSPECTION	<del></del>
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 HSB1&1	
of HARTFORD, CT have inspected the components described in	1
this 584 4-6-49	
Owner's Report during the period 10-26-78 to 46-99 and state that to the be	est
of my knowledge and belief, the Owner has performed examinations and taken corrective measures describ	ed
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, neith	er
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.	
Commissions TN 2533	
Inspector's Signature National Board, State, Province, and Endorsements	5
Date 4-6 19 99	

701 70 70 TO 10 TO

TO THE PROPERTY OF THE PARTY OF	COORBYEVAL	VEILE GAGE CO	HPANY A
CROSE	A W. C.	HTHAVE BASS	
			# Q.C.5418 TO 18
FOR	WW. FOR SAFETY AND SAFETY	RELIEF VALVES	
	DEBORT.		NB=120
	Safety and Safety Relief Val	ves	· · · · · · · · · · · · · · · · · · ·
The second of th	alve & Gage Co 43 Kendr	Se Wrentham Mas	Gr. 02055
Manufactured By Croshy V	Name and Address		VENTE
79-35-TD- WR	Name and Address Order No. 1 N302945 house Electric Corp.	Contract.Date	102/16-19
Model No Westing	house Blectric Corp. Energy Systems Pittsburg	h, Pa . Vordet No. 4546	COR 10.34 TO DAY
		W. Control of the Con	
Tennes	real Valley Authority	W8608111	TOUGH (D)
Owner and the little of the		W8608111	
4. Location of Plant Spring	City, Tennessee	DS-C	56902 Rev. A.
TV-1-	8856AWAT Senal No - N56902-0		
400	THE OF THE STREET OF THE SIZE	J Pipe Size	M2 Outlet
Type velief	lot, Power Actuated To	Inch.	THE RESIDENCE OF THE PARTY OF T
100101	600	Rated Tempe	
	Ove	rpressure Blowdown (PSH	107 of S.P.
Stamped Capacity 400 G		Outlet	
Hidrostatic Test (PSIG) Into	950	omplete-Value	
Hi-qtoaratic resetts	euction and workmanship comply with	ASME Code Section III.	
7. The material, design, consti	1971	Addenda Daie Summer	1972
Clase2	_ Edition	FILMED FROM BEST	
garaging of Pte	ssure Retaining Components	AYAILABLE COPY	
Pressure Containing of 1	Serial No.		specification  type or Grade  72 CF SM
Coalings	Identification	A COPPLE A SOL	/2 02 02 23 2
a. Castings	~ <u> </u>	ASTM SA 35° ASTM A 21°	72 Gr. CF8M 5 70 Gr. WCB
364.	woo/ 51_21_0014	ASME SA 21	
Bonnet	<del>- NAOLA 1-21 0014</del>		
b. Bar Stock and Forgings		- 19	2 71 Type 316
Support Rods		ACME SA 18	7 Type 316
Nozzle	N90448-33-007	S ASME SA 47	9 Type 316
Disc	N88634-38-010 N88634-38-010	ASME SA 1	3 Gr. 86
Spring Washers		SCUE CA 1	81 701 CF: B6
Adjusting Bolt	N88635=39-008		93 Gr. B6
Spindle	N88669-34-004	· · · · · · · · · · · · · · · · · · ·	-Voshio 3
		DEC NO. 5-4/19	DATE S
		REG. No.	Ti, ria
		ITEM NO.	7604

209 NO.

	All the second second second
	2 10
Serial No. of	
toologing Type of Grade	
ASTM A 638 70 GE 660	
E-Spring.	
d. Bolting ASIM A 453 70GL - CO	
プリー・ファイスルトルグログリス DE 19 19 19 19 19 19 19 19 19 19 19 19 19	
89293	
The state of the s	
REG. NO. 5-9/19-13-	200
ITEM NO.	
209 NO. 75-780-7	=
We certify that the statements made in this report are correct.	w_
Date 3 12 19 7) Signed Crosby Valve & Gage Co. By QA Manager	
Certificate of Authorization No. 926 expires October 28, 1977	- )
FILMED FROM BEST AVAILABLE COPY	
	181
CERTIFICATE OF CHOP INSPECTION	
Mass. and employed by	P
Pressure Vessel Inspectors and Norwood, Massachusects	82
inspected the equipment described and belief, the Manufacturer has constructed the state that to the best of my knowledge and belief, the Manufacturer has constructed the state that to the best of my knowledge and belief, the Manufacturer has constructed the state that to the best of my knowledge and belief, the Manufacturer has constructed the state of	
ment in accordance with the appearance with the inspector nor his employer makes any warranty, ex-	Щ (S
pressed or implied, concerning	PAGE
the Inspector nor his employer shall be liable in any matrice.  the Inspector nor his employer shall be liable in any matrice.  damage or a loss of any kind arising from or connected with this inspection.	(U. 2)
Pric Harch 12, 19 25	OSPU ?
National Board, State:	DATE
Address of the Boston Manufacturers Mutual Insurance Company	1/ria
Boiler and Machinery Division	

<i>)</i>	
181	
80 OF	
80	
PAGE	

DATE

					(Y)
				and the same	
				S. A. C. S.	—
			Material Speci	(ication	
	Serial No.		including Type	or Grade	
	Identification of the second	0022	TM= A:638 Gr :	660	37.00
C. Spring	NX 2600	-0022			
d. Bolling sages out		25-27-30 PM	THE REAL PROPERTY.		
The state of the second st	or Components	44.		THE STATE OF	
CO TOTAL CONTRACTOR OF THE PARTY OF THE PART	89289		70.00 (60) (70)		A PERSON
Ronnet Stud		ASHE-SA 453	Al-Grando.		
Bonnet Stud Mit	89293		62 86	The state of the s	No.
					7.57
				WATER CT.	7
				114-1	丁
and the second second			REC NO	The state of the s	
	Maria Maria Cara Cara Cara Cara Cara Cara Cara		TENENO 5	75.04	
	Carlo State of the		200 NO	Company of the Company	1946 J. C.
	· · · · · · · · · · · · · · · · · · ·		The second secon	THE REAL PROPERTY.	
				1	
We certify that the state	ments made in this report at	e conect.		Herna	. /
	75 Signed Crosb	y Valve & Gage	Co. By	Manager	<del></del>
DateIS	M. Signed	anulacturer			
	926 -	Octol	per 28, 1977		
Certificate of Authoriz	ation No	espires	FILME	FROM BEST	
			AVAIL	ABLE COPY	
		·	-	<del></del>	0
	CERTIFICA	TE OF SHOP INSPEC	TION '	1	
		commission issued by t	the National Board of E	Boiler and employed by	T C
1 0	Versel Insperior	Mortinga, Massa	16111.00		80 (
Fact	ory Mutual Systems,  d the equipment described in	this Data Report on _	March 13	19 7.2 and de this equip-	a
	I to the pear in my	I. Cubeactions Of ASM	E 26ction 111.		L
ment in	accordance with the appropriate	the Inspector nor his	employer makes any wa	ermore, neither	C
l neessed	IN IMPLIED. CONCERNION THE		or for any personal mile	ry or property	
the ins	sector nor his employe: shall or a loss of any kind arising	from or connected wit	h this inspection.	l.	
de litage			•		

A.B. LOGS
National Board, State, Province and No.1 \*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler and Machinery Division

Spindle K55158-40-0223

PAGE 8/ OF AZ

54114-1

77-5059

5A

REG. NO.

emia no.

2011 EC12

SOUTH THE WAY COM

And the state of t		And the second s
		Managal Specification
	Sanal No. C	La Maierial Specification
		including Type or Grade
	dentities	A313-70 Type 316
	Nx266-0060 AST	
c. Spring		100
d Bolting	THE RESERVE OF THE PARTY OF THE	
Other Parts such as Pilot Components		
e. Other Parts such as an arrangement of the such as a s		Maria Walanta Maria Maria
		The state of the s
	The second secon	
	THE RESERVE OF THE PARTY OF THE	A STATE OF THE STA
	TO THE REAL PROPERTY AND ADDRESS OF THE PARTY	
A CONTRACT OF THE PARTY OF THE	<b>一个人们是一个人们的一个人们的一个人们的一个人们的一个人们的一个人们的一个人们的一个人们的</b>	Control of the Contro
A CONTRACTOR OF THE PARTY OF TH		
	The state of the s	
	THE RESERVE OF THE PERSON OF T	and the state of t
We certify that the statements made in	this report are	(Kalmay)
	ned Crosby Valve & Cage Co.	By QA Hanager
Date	ned Wamifacturer	QA, IMIMGO
•		
	976 October	28, 1977
Certificate of Authorization No.	926 expires Occident	FILMED FROM BEST AVAILABLE COPY
Oct	Application of the second of t	ATAILABLE (X)PY

FILMED FROM BEST AVAILABLE COPY

المحاضون وبتواز الوااد

3.0.22

#### CERTIFICATE OF SHOP INSPECTION

Pressure Vessel Inspectors and the State or Province of Factory Mutual Systems\*, Norwood, \_ 19 77 and inspected the equipment described in this Data Report on Nancery 12, state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III-

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a logs of any kind arising from or connected with this inspection.

damage or a logs of any kind	arising from or connected with the	<b>L</b> .
Date January 18		J
PS	nuracturers Mutual Insurance	re. Province and Nova Company — Mutu

\*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Division. e y laterating a

#### WO # 98-000731-001

Owner TENN	ESSEE VALLEY AL	JTHORITY	Date 10	/18/98				
400 W. S	Name Summit Hill Drive, Kı	noxville, TN	Sheet	C	ıf			
. Plant Watts	Address Bar Nuclear Plant		Unit Ur	nit 1	-			
P. O. Bo	Name x 2000, Spring City,	TN, 37381	MMG 98-0	00731	-001			
	Address d by WATTS BAR NU		Type Code	Repair O	ganization P.	O. No., N/A	Job No., etc.	
	· <del></del>	Name	Authorizat	•	•			
.O. BOX 2000, C	Address							
. Identification of	system 003, MAII	N FEEDWATER	Expiration	Date	N/A			
(a) Applicable (	Construction Code	ASME SEC. III 19 7	4 Edition N	IONE	Addonda	-	16 12h	1/8/9
	-	Utilized for Repairs			_ Addenda  1989	, 100	1-1-25	le Case
(b) Applicable (	_uition of Section At	Offized for Repairs	oi Replacell	ients	1909	_ "	, , , ,	
. Identification of	Components Repai	red or Replaced and	Replaceme	nt Cor	nponents			
Name of Component	<del></del>	Manufacturer Serial No.	National Board No.		Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe (Yes o No)
-CKV-003-0508	WALWORTH	D66451	1712	53		73	REPAIR	Yes
		·						
		<del></del>						
			i			<u> </u>		<u> </u>
7. Description of		TER CHEC	<u>K</u>	<u>                                     </u>		7-~	21.46	
7. Description of	Work -REMOVE/RE	FER CHEC EPLACE GAFETY R	K ELIEF VAL\	! /E, <i>/</i> +.	c-46-7	TN	PLICE.	عامل <del>ما ين ش</del>
	Work REMOVE/RI	18-63-48				PI~	PLIS G.	المام ا المام المام ال
	Work <del>REMOVE/RI</del> ted: Hydrostatic ∃	Pneumatic Nomi	nal Operatir		sure X	°F	Phis G.	<i>العامل المانية</i> المانية المانية br>المانية المانية

#### WO # 98-000731-001

Applicable Manufacturers Data Reports to be Attached
TRACKING # RR-02-37
CODE CASE N46-1.
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this REPAIR conforms to the repair or replacement rules of the ASME Code, Section XI.
Type Code Symbol Stamp NONE.
Certificate of Authorization No. NONE.  Signed DI-Gully Mech Eng. Date 4/14 19 95  Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Tennessee and employed by HSB I & I
of <u>HARTFORD, CT</u> have inspected the components described in this
Owner's Report during the period $\frac{i1/3/33}{2}$ to $\frac{4/16/33}{2}$ 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. Earning! Commissions TN 2534 I National Board, State, Province, and Endorsements
Date 4//6 19 39

## LW860808K0013(2)

FORM NOV-1 MANUFACTURERS DATA REPORT FOR NUCLEAR PUMPS OR VALVES.

Cation of Installation  (Name and Address of Funchibility Owner)  (Name and Address of Funchibility Owner)  (Name and Address of Funchibility Owner)  (Name and Address)  (In It is in the interest of the interes
(a) Model No., (b) Manufacturers' (c) Canadian Series No. Series Registration (d) Crewing (f) Nat'l. (g) Year or Type No. No. (a) Class 8d. No Butt  5353. D=66451 N/A A=12786=M3. 2 1712- 1973  FILMED FROM BEST AVAILABLE COPY HARD COPY RETAINED  (Brief description of service for small equipment was designed)  Figed Water  (Brief description of service for small equipment was designed)  Figed Vorking Pressure 2150 pai 6700 F or Valve Pressure Class (1) cold 'Norking Pressure 2150 pai at 100°F.
FILMED FROM BEST AVAILABLE COPY  (Brief description of service for energy equipment was designed)  Fig. (Brief description of service for energy equipment was designed)  Fig. (Brief description of service for energy equipment was designed)  (Brief description of service for energy equipment was designed)  (Brief description of service for energy equipment was designed)  (Conditions 1185 psi 600 F or Valve Pressure Clar (1) odd Working Pressure 2150 psi et 100°F.
FILMED FROM BEST AVAILABLE COPY  (Brief description of service for smach equipment was designed)  Fig. d. State Conditions 1185  (Brief description of service for smach equipment was designed)  (Conditions 1185  (Pressure)  (Temperature)  (Temperature)  (Temperature)  (Temperature)  (Temperature)  (Temperature)  (Temperature)  (Temperature)  (Temperature)
FILMED FROM BEST  AVAILABLE COPY  (Brief description of service for which equipment was designed)  (Brief description of service for which equipment was designed)  (Brief description of service for which equipment was designed)  (Brief description of service for which equipment was designed)  (Brief description of service for which equipment was designed)  (Brief description of service for which equipment was designed)  (Brief description of service for which equipment was designed)  (Brief description of service for which equipment was designed)  (Brief description of service for which equipment was designed)  (Brief description of service for which equipment was designed)  (Brief description of service for which equipment was designed)  (Brief description of service for which equipment was designed)  (Brief description of service for which equipment was designed)
FILMED FROM BEST  AVAICABLE COPY  (Brief description of service for small education was designed)  Fig. Conditions  1185  Pai 600  For Valve Pressure Claracy (1)  Old 'Norking Pressure 21b0'  psi at 100°F.
FILMED FROM BEST  AVAICABLE COPY  HARD COPY RETAINED  (Brief description of service for which equipment was designed)  Factorizing Conditions  [Brief description of service for which equipment was designed)  Figure Conditions  [Freesign Conditions of Con
## HARD COPY RETAINED  ### HARD COPY RETAINED  #### HARD COPY RETAINED  ###################################
## HARD COPY RETAINED  ### HARD COPY RETAINED  #### HARD COPY RETAINED  ###################################
## HARD COPY RETAINED  ### HARD COPY RETAINED  #### HARD COPY RETAINED  ###################################
Factwater   (Binef description of service for which equipment was designed)
(Snel description of service for which equipment was designed)  eign Conditions 1185 pai 600 Tor Valve Pressure Clara (1)  (Pressure) (Temperature)  old 'Norking Pressure 2150 psi at 100°F.
eign Conditions 1185 psi 600 F or Valve Pressure Clare (1)  Old 'Working Pressure 2150 psi at 100°F.
eign Conditions 1185 psi 600 F or Valve Pressure Clare (1)  Old 'Working Pressure 2150 psi at 100°F.
old 'Norking Pressure 210U psi at 100°F.
Marking Coer No. Manufacturer Remarks
Mark No. Matérial Spec. No. Manufacturer Remarks
Body 175G SA 352, LCB Walworth Co.   Seal Welded Sea
Body 175G SA 352, LCB Walworth Co. Seal Welded Sea Bonnet G381 SA 352, LCB Walworth Co. CoCrA Backsea:
Body 175G SA 352, LCB Walworth Co. Seal Welded Sea
Body 175G SA 352, LCB Walworth Co. Seal Welded Sea Bonnet G381 SA 352, LCB Walworth Co. CoCrA Backsea:
Body 175G SA 352, LCB Walworth Co. Seal Welded Sea Bonnet G381 SA 352, LCB Walworth Co. CoCrA Backseat Disc G234 P4 SA 352, LCB Walworth Co. CoCrA Faced
Body 175G SA 352, LCB Walworth Co. Seal Welded Sea Bonnet G381 SA 352, LCB Walworth Co. CoCrA Backseat Disc G234 P4 SA 352, LCB Walworth Co. CoCrA Faced
Body 175G SA 352, LCB Walworth Co. Seal Welded Sea Bonnet G381 SA 352, LCB Walworth Co. CoCrA Backsea: CoCrA Faced Sea SA 352, LCB Walworth Co. CoCrA Faced YALVE
Body 175G SA 352, LCB Walworth Co. Seal Welded Sea Bonnet G381 SA 352, LCB Walworth Co. CoCrA Backseat Disc G234 P4 SA 352, LCB Walworth Co. CoCrA Faced
Body 175G SA 352, LCB Walworth Co. Seal Welded Sea Sonnet G381 SA 352, LCB Walworth Co. CoCrA Backseat CoCrA Faced YALVE
Body 175G SA 352, LCB Walworth Co. Seal Welded Sea Bonnet G381 SA 352, LCB Walworth Co. CoCrA Backsea: CoCrA Faced YALVE
Body 175G SA 352, LCB Walworth Co. Seal Welded Sea Bonnet G381 SA 352, LCB Walworth Co. CoCrA Backsea! Disc G234 P4 SA 352, LCB Walworth Co. CoCrA Faced  VALVE  Diforgings  SRILL  SRIL
Body 175G SA 352, LCB Walworth Co. Seal Welded Sea Bonnet G381 SA 352, LCB Walworth Co. CoCrA Backsea: CoCrA Faced YALVE
Body 100 DA 1951 Body 100

(1) For manually operated valves only.

<sup>\*</sup> Supplemental sheet, in form of lists, skatches or drawings miles used provided (1) size is 8-100 x 111, (2) information in items 1, 2 and 5 on this data report is included on each of the leading sheet is membered and remner of sheets.

	Material Sper. No.	Menufacturer	Remarks
Botting		<del>                                     </del>	
47089-(PL)	ASME SA 320, Gr. I	REC	
ut 9853E (OA) :	ASME SA 194. Co. 7	REC	
		<b>3.3</b>	
			<del></del>
		<del>-   · </del>	
			<del></del>
(d) Other Parts	<u> </u>		<u> </u>
Plug - 61814	ASME SA 320, Gr.	LF. McWilliams	<u> </u>
		<b>-</b>	TAE
			<b>F</b>
HARD COPY RETAI	MED	- T	6451
HARU CUPT RETAI	CHARED THE WAR	<u> </u>	4471
	- 318 C3W H3	cent	AL NO.
	ADO WOND (1)		AL NU.
vivoetatic test 3150	538		<del></del>
(Dem)	. Code Case No. N/A	Outril 1	1/12/24
med Walworth Co		by G. Hill symb	1/12/79 ool expires 12/9/80 (Date)
med Walworth Co	ompany servition No1951to	Date  G. Hill  use the (N) (PPV)  OF DESIGN	2/9/80 (Date)
Walworth Commission of Authorition information on file at	ompany set nenzation No1951 to	Date  G. Hill  use the (N) (PPV)  OF DESIGN	2/9/80 (Date)
Walworth Committee of Authorities of	CERTIFICATION ( Walworth Company, ( 1 only) on file at _N/A	of Design  Greensburg, Pa. 15	2/9/80 (Date)
Malworth Commencer of Authorises of Authorises of Authorises of Authorises of Authorises on file at rese analysis report (Class	CERTIFICATION ( Walworth Company, ( 1 only) on file at _N/A	of Design  Greensburg, Pa. 15	2/9/80 (Date)
Malworth Communication of Authors information on file at the seas analysts report (Class an	CERTIFICATION (  Walworth Company, (  1 only) on file atN/A  ad by (1) _M_N_Bressler  Reg. No9411	of Design  Greensburg, Pa. 15	2/9/80 (Date)
ASME Cartificate of Authorities of A	CERTIFICATION ( Walworth Company, ( 1 only) on file at _N/A  Ind by (1) M.N. Bressler  Reg. No. 9411	of Design  Greensburg, Pa. 15	2/9/80 (Date)
ASME Cartificate of Authorities of A	CERTIFICATION (  Walworth Company, (  1 only) on file atN/A  ad by (1) _M_N_Bressler  Reg. No9411	OF DESIGN Greensburg, Pa. 15	2/9/80 (Date)
Malworth Commenced Walworth Commenced Walworth Commenced on Authorities of Authorities analysis report (Classical Commence analysis report (Classical Commence analysis cartified by (Character analys	CERTIFICATION ( Walworth Company, ( 1 only) on file atN/A  Ind by (1) M_N_Bressler  Reg. No9411  N/A  Reg. No	of Design  Greensburg, Pa. 15	2/9/80 (Date)
Malworth Commenced Walworth Commenced Walworth Commenced on Authorities of Authorities analysis report (Classical Commence analysis report (Classical Commence analysis cartified by (Character analys	CERTIFICATION ( Walworth Company, ( 1 only) on file atN/A  Ind by (1) M_N_Bressler  Reg. No9411  N/A  Reg. No	OF DESIGN Greensburg, Pa. 15	2/9/80 (Date)
ASME Cartificate of Authorities of Authorities of Authorities of Authorities of Authorities of Authorities analysis report (Classical Authorities analysis report (Classical Authorities analysis cartified by (Classical Authorities analysis cartified analysis cartified by (Classical Authorities analysis cartified analysis cartifi	CERTIFICATION ( Walworth Company, ( 11 only) on file atN/A  Ind by (1) _M_N_Bressler  Reg. No9411	of DESIGN Greensburg, Pa. 15  REQ NO.  ITE: NO.	2/9/80 (Date)
ASME Cartificate of Authorities of Authorities of Authorities of Authorities of Authorities of Authorities analysis report (Classics analysis report (Classics analysis cartified by (State	CERTIFICATION ( Walworth Company, ( 1 only) on file atN/A  Ind by (1) M_N_Bressler  Reg. No9411  N/A  Reg. No	of DESIGN Greensburg, Pa. 15  REQ NO.  ITE: NO.	2/9/80 (Date)
Walworth Commenced Walworth Commenced Walworth Commenced of Authors information on file at the same analysis report (Classes analysis report (Clas	CERTIFICATION  Walworth Company,  It only) on file atN/A  Ind by (1) _MNBressler  _Reg. No9411 Reg. No9411 Reg. No Reg. No	OF DESIGN  Greensburg, Pa. 15  REQ NO.  ITE: NO.  OP INSPECTION  National Board of Boiler and S	601  Pressure Vessel Inspectors
Walworth Commencer of Authorises analysis report (Classical cardinal by (State)  State  State  The undersigned, holding the State or Province of	CERTIFICATION  Walworth Company,  It only) on file atN/A  Ind by (1) _M_N_Bressler  Reg. No9411  Reg. No9411  Reg. No  CERTIFICATE OF SM  a valid commission issued by the  Pennayiyania	OF DESIGN  Greensburg, Pa. 15  REQ NO.  ITES NO.  OP INSPECTION  National Board of Boiler and F.  and employed by The Ha	601  Pressure Vessel Inspectors actiond Steam Boil
Walworth Commencer of Authorises of Authorises analysis report (Classical Continuous analysis report (Classical Continuous analysis certified by (Classica	CERTIFICATION  Walworth Company, ( 1 only) on file atN/A  Ind by (1) M. N. Bressler  Reg. No. 9411  N/A  Reg. No.  Let name only.  CERTIFICATE OF SH  a valid commission issued by the  Penacylvania  In. 06102 have inspected	OF DESIGN  G. Hill symbol (N) (PIEV)  OF DESIGN  Greensburg, Pa. 15  REQ NO.  ITE: NO.  OP INSPECTION  National Board of Boiler and Formation of English and Standard of Boiler and Standard of English and Standard of Englis	2/9/80 (Date)  Crassure Vessel Inspectors artford Steam Boil
Manufacture of Author ASME Cartificate of Author ASME Cartificate of Authorized information on file at the analysis report (Classical Authorized Cartifications cartificati	CERTIFICATION  Walworth Company,  It only) on file atN/A  Ind by (1) _M_N_Bressler  Reg. No9411  Reg. No9411  Reg. No  CERTIFICATE OF SM  a valid commission issued by the  Pennayiyania	OF DESIGN  G. Hill symbol (N) (PIEV)  OF DESIGN  Greensburg, Pa. 15  REQ NO.  ITE: NO.  OP INSPECTION  National Board of Boiler and Formation of English and Standard of Boiler and Standard of English and Standard of Englis	2/9/80 (Date)  Crassure Vessel Inspectors artford Steam Boil
the undersugned, holding that State undersugned, holding and the State un Province of Hartford, Con	CERTIFICATION  Walworth Company, ( 1 only) on file atN/A  Ind by (1) M. N. Bressler  Reg. No. 9411  N/A  Reg. No.  Let name only.  CERTIFICATE OF SH  a valid commission issued by the  Penacylvania  In. 06102 have inspected	OF DESIGN  G. H. Hill symbol (N) (PIFV)  OF DESIGN  Greensburg, Pa. 15  REQ NO.  ITE: NO.  OP INSPECTION  National Board of Boiler and F. and employed by The Hathe pump, or velva, described east of my knowledge and belief.	2/9/80 (Date)  Crassure Vessel Inspectors artford Steam Boil
med Walworth Commence of Authorises analysis report (Class analysis report (Class analysis certified by (Class analysis analysi	CERTIFICATION  Walworth Company, Compan	OF DESIGN  G. H. Hill symbol (N) (PUPV)  OF DESIGN  Greensburg, Pa. 15  REC NO.  ITE: NO.  OP INSPECTION  National Board of Boiler and Post of my knowledge and belief, section III.	Ol expires 12/9/80 (Date)  Cressure Vessel Inspectors artford Steam Boild in this Data Report on the Manufacturer has con-
Walworth Commenced Walworth Commenced Walworth Commenced Authors and Authors and Market Research Commenced	CERTIFICATION  Walworth Company, Compan	OF DESIGN  G. H. Hill symbol (N) (PIFV)  OF DESIGN  Greensburg, Pa. 15  REQ NO.  ITE: NO.  OP INSPECTION  National Board of Boiler and F. and employed by The Hathe pump, or velva, described the pump, or velva, described est of my knowledge and belief, a. Section III.	601  Pressure Vessel Inspectors artford Steam Boil in this Data Report on the Manufacturer has con-
Walworth Commenced Walworth Commenced Walworth Commenced of Authors information on file at the sea analysis report (Class sea analysis report (Class sea analysis certified by (State State or Province of Hartford, Commenced this pump, or valve signing this certificate, in equipment Secretaries in	CERTIFICATION  Walworth Company,  I only) on file atN/A  Id by (1) _MNBressler _Reg. No9411  Reg. No9411  The name only.  CERTIFICATE OF SM  a valid commission issued by the	OF DESIGN  G. J. Hill symbol (N) (PIEV)  OF DESIGN  Greensburg, Pa. 15  REQ. NO.  ITES NO.  OP INSPECTION  National Board of Boiler and Found amployed by The Hather the pump, or velva, described east of my knowledge and belief, a, Section III.  The makes any warranty, express ther the inspector nor his employed.	ool expires 12/9/80 (Date)  601  Pressure Vessel Inspectors artford Steam Boil in this Data Report on the Manufacturer has conseed or Implied, concerning over shall we liable in any
Walworth Commercial Manufacture of Authorities of Authorities of Authorities of Authorities analysis report (Classical Authorities anal	CERTIFICATION  Walworth Company, Compan	OF DESIGN  G. J. Hill symbol (N) (PIEV)  OF DESIGN  Greensburg, Pa. 15  REQ. NO.  ITES NO.  OP INSPECTION  National Board of Boiler and Found amployed by The Hather the pump, or velva, described east of my knowledge and belief, a, Section III.  The makes any warranty, express ther the inspector nor his employed.	601  Pressure Vessel Inspectors Ttford Steam Both in this Data Report on the Manufacturer has con-

DACE OLOR 107

#### ATTACHME-T# 1 NO. 95-000731-001

#### Records Correction Notice Page 1 of 1

PG. 10F2.

98000731001

#### nstructions

1. Complete Blocks 1-11 (if required information is known).

2. Each page shall be numbered (e.g., page 1 of 3, page 2 of 3, etc.).

Changes to approved records shall be reviewed, verified, and approved by the same organization that performed the original review, verification, and approval.

4. Submit the completed form and records to MS.

				(If applicable)
				RCN#
				Page 1 of 2
1.	Document Title/Subject/Identifier	Form NPV-1 Manufacturers	s' Data Report For Nuclear Pump	s Or Valves
2.	Document Number D66451	<ol> <li>Revision Number</li> </ol>	4. Sheet Number 2	5. Unit Number
<b>6</b> .	Document Date 7. Effects 1/12/78 2 10/29/	ve Date of this Change 98	d. QA Record 🗵 YES	S 🗆 NO
3.	Reel/Frame Number or Archive Locati W41349 - 0027 and E07228 - 1485	on of Griginal Record (if avai	lable)	
10,	Correction Action (check all that apply	)		
	Supplement Record (add addition	nal pages to record)		
	☑ Carrect Record (change existing	information on record)		
	☐ Delete Records (list records to b	e deleted in the reason for ch	nange block below)	
	☐ Invalidate Records (list records t	o be invalidated in the reason	n for change block below)	
11	Reason for Change/Description of C	hange		
The	"Material Specification No." section on	FORM NPV-1 (Back) for Plu	ug - 61814 listed in section 3.(d) ii	ncorrectly identified the material
-1S /	ASME SA 320, Gr. LF2. The correct m	aterial specification is ASME	SA 350, Gr. LF2. This was verif	led from the NPV-1 Data Report
far	Document No. D66450 and from Mater	nal Test Report No. 10614 fr	om McWilliams Forge Company,	Inc. and the Certification of
Imp	act Testing Data WMT&R Report No.	7243 which are part of the W	alworth documentation package f	or valve D66451 (Reel E07223 -
Fra	me 1482). This was an obvious typogr	aphical error which was not p	nicked up during the initial record r	review and completion.
		Review/Verificat	ion/Approval	7
Sic	mature Robert DB	Date 10-29-78	Signature	Date
Sic	mature data	— Date 10/24/98	Signature	Date
	mature Duan M Swort	Date 10/27/58	Signature	Date
		/ / / /		
Sid	anature	Date	Signature	Date

(c) Botting PULL \$7089 (PT) ASRESA 320, GT. 17 REC  NUT 9853F (CA). ASME SA 194, GT. 7 REC  (d) Other Parts  Plug - 61814 ASME SA 380, GT. LF2 McWilliams  /O-27-98  VALVE  B60451  SERIAL NO.  Vertoetack taser 3150  DB.  CERTIFICATE OF COMPLIANCE  Cartify that the statements made in this report are correct and that this jump, or valve, conforms to the statements made in this report are correct and that this jump, or valve, conforms to the statements made in this report are correct and that this jump, or valve, conforms to the statements made in this report are correct and that this jump, or valve, conforms to the statements made in this report are correct and that this jump, or valve, conforms to the statements of the ASME Code for Nuclear Power Plant Components, Section III, Div. L Edition 1974  ASME Cartificates of Authorization No. 1951  ASME Cartificates of Authorization No. 1951		TUU T PORM NEV-1	(Beck)	lege Zof
(d) Other Peros 350  Plug - 61814 ASME SA 320, Gr. LF2 McWilliams  (d) Other Peros 350  Plug - 61814 ASME SA 320, Gr. LF2 McWilliams  //O - 27 - 28  VALVE  CERTIFICATE OF COMPLIANCE  CODE Case No. N/A  Code Case No. N/A  Code Case No. N/A  CERTIFICATION OF DESIGNATION  CERTIFICATION  CERTIFICA	Merk No.	Meterial Spec. No.	Manufacturer	Remerks
Id Other Parts    Id Other Parts   350				
(d) Other Parts  (e) Ot	ud \$7089 (PL)	ASAFE-SA-320 G- I	7 . P.E.C.	
(d) Other Parts 350 Plug - 61814 ASME SA 320, Gr. LF2 McWilliams  //O-27-98  VALVE  100-27-98  VALVE  CERTIFICATE OF COMPLIANCE  CONTROL THE SETUMENTS made in this report are correct and that this pump, or valve, conforms to the struction of the ASME Code for Nuclear Power Plant Components. Section II, Div. L. Edition 1974  and N/A desired Code Case No. N/A  Manufacturer  ASME Cartificate of Authorization No. 1951  To use the Malworth Company  ASME Cartificate of Authorization No. 1951  To use the Malworth Company, Greensburg, Pa. 15601  The structure of the Asset Code to this report of the Asset Case No. N/A  The proportion of the at Walworth Company, Greensburg, Pa. 15601  The proportion of the at Walworth Company, Greensburg, Pa. 15601  The proportion of the at Malworth Company, Greensburg, Pa. 15601  The proportion of the at Malworth Company, Greensburg, Pa. 15601  The proportion of the at Malworth Company, Greensburg, Pa. 15601	Tue 9853E (OA),	- A C A C A		
(d) Other Perts 350 Plug - 61814 ASME SA 320, Gr. LF2 McWilliams  //O-27-98  VALVE  100-27-98  VALVE  CERTIFICATE OF COMPLIANCE  CONTROL THE SECURITIES IN T				
(af Other Perts 350 Plug - 61814 ASME SA 750, Gr. LF2 McWilliams  /0-27-98  VALVE  D60451  SERIAL NO.  CERTIFICATE OF COMPLIANCE  CONTROLLED FOR THE COMPLI			13 -	
CERTIFICATE OF COMPLIANCE  CERTIFICATE OF COMPLIANCE  CONTROLL NO.  CERTIFICATE OF COMPLIANCE  CONTROLL NO.  CONTR				<del> </del>
CERTIFICATE OF COMPLIANCE  CERTIFICATE OF COMPLIANCE  CONTROL TO THE SETUMENTAL MALE CONTROL OF VENAL CONFORMS to the struction of the ASME Code for Nuclear Power Plant Components. Section 81, Div. L. Edition 1974 and N/A  Code Case No. N/A				<del> </del>
CERTIFICATE OF COMPLIANCE  CERTIFICATE OF COMPLIANCE  CONTROL TO THE SETUMENTAL MALE CONTROL OF VENAL CONFORMS to the struction of the ASME Code for Nuclear Power Plant Components. Section 81, Div. L. Edition 1974 and N/A  Code Case No. N/A				
CERTIFICATE OF COMPLIANCE  CERTIFICATE OF COMPLIANCE  CONTROL TO THE SETUMENTAL MALE CONTROL OF VENAL CONFORMS to the struction of the ASME Code for Nuclear Power Plant Components. Section 81, Div. L. Edition 1974 and N/A  Code Case No. N/A				
CERTIFICATE OF COMPLIANCE  CERTIFICATE OF COMPLIANCE  CERTIFICATE OF COMPLIANCE  CERTIFICATE OF COMPLIANCE  CONTROL OF DESIGNATION OF DESIGNA				<del> </del>
CERTIFICATE OF COMPLIANCE  CERTIFICATION OF DESIGNA  CERTIFICATION OF DESIGNA  CERTIFICATION OF DESIGNA  In information on file at Walworth Company, Greensburg, Pa. 15601  The specifications certified by (1) M. N. Bressler  Table 1921  Reg. No. 9411		350		
CERTIFICATE OF COMPLIANCE  CONTROL OF ASME Code for Nuclear Power Plant Components, Section III, Div. L. Edition 1974  Code Case No. N/A  CERTIFICATION OF DESIGNATION	lug - 61814		F2 McWilliam	
CERTIFICATE OF COMPLIANCE  CERTIFICATE OF COMPLIANCE  CONTROLL NO.  CERTIFICATE OF COMPLIANCE  CONTROLL NO.  CERTIFICATE OF COMPLIANCE  CONTROLL NO.  CONTROLL NO.  CERTIFICATE OF COMPLIANCE  CONTROLL NO.  CONTROLL NO.  CERTIFICATE OF COMPLIANCE  COMPLIANCE  CONTROLL NO.  CERTIFICATION OF DESIGNA  CERTIFICATION OF DESIGNA  CERTIFICATION OF DESIGNA  In information on file at Walworth Company, Greensburg, Pa. 15601  In specifications certified by (1) M. N. Bressler  To D.  Reg. No. 9411		MOB	incommand.	
CERTIFICATE OF COMPLIANCE  CERTIFICATION of the ASME Code for Nuclear Power Plant Components. Section III, Div. L. Edition 1974  Code Case No. N/A		10-29-98		
CERTIFICATE OF COMPLIANCE  CERTIFICATION of the ASME Code for Nuclear Power Plant Components. Section III, Div. L. Edition 1974  Code Case No. N/A			V	1112
CERTIFICATE OF COMPLIANCE  Describly that the statements made in this report are correct and that this pump, or valve, conforms to the struction of the ASME Code for Nuclear Power Plant Components, Section III, Div. L. Edition 1974  India N/A  Code Case No. N/A  Walworth Company  Menufacturer)  ASME Certificate of Authorization No. 1951  CERTIFICATION OF DESIGN  pri information on file at Walworth Company, Greensburg, Pa. 15601  In specifications certified by (1) M. N. Bressler  See Tann. Reg. No. 9411			Y.P.	LYE
CERTIFICATE OF COMPLIANCE  Describly that the statements made in this report are correct and that this pump, or valve, conforms to the struction of the ASME Code for Nuclear Power Plant Components, Section III, Div. L. Edition 1974  India N/A  Code Case No. N/A  Walworth Company  Menufacturer)  ASME Certificate of Authorization No. 1951  CERTIFICATION OF DESIGN  pri information on file at Walworth Company, Greensburg, Pa. 15601  In specifications certified by (1) M. N. Bressler  See Tann. Reg. No. 9411				
CERTIFICATE OF COMPLIANCE  Describly that the statements made in this report are correct and that this pump, or valve, conforms to the struction of the ASME Code for Nuclear Power Plant Components, Section III, Div. L. Edition 1974  India N/A  Code Case No. N/A  Walworth Company  Menufacturer)  ASME Certificate of Authorization No. 1951  CERTIFICATION OF DESIGN  pri information on file at Walworth Company, Greensburg, Pa. 15601  In specifications certified by (1) M. N. Bressler  See Tann. Reg. No. 9411	/		866	<del>451</del>
CERTIFICATE OF COMPLIANCE  certify that the statements made in this report are correct and that this pump, or valve, conforms to the struction of the ASME Code for Nuclear Power Plant Components, Section III, Div. L. Edition 1974  and N/A  Code Case No. N/A  Walworth Company  (Manufacturer)  ASME Certificate of Authorization No. 1951  CERTIFICATION OF DESIGN  on information on file at Walworth Company, Greensburg, Pa. 15601  on specifications certified by (1) M. N. Bressler  the property of the statements are correct and that this pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements are correct and that this pump, or valve, conforms to the statements are correct and that this pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms and the pump, or valve, confo				
CERTIFICATE OF COMPLIANCE  certify that the statements made in this report are correct and that this pump, or valve, conforms to the struction of the ASME Code for Nuclear Power Plant Components, Section III, Div. L. Edition 1974  and N/A  Code Case No. N/A  Walworth Company  (Manufacturer)  ASME Certificate of Authorization No. 1951  CERTIFICATION OF DESIGN  on information on file at Walworth Company, Greensburg, Pa. 15601  on specifications certified by (1) M. N. Bressler  the property of the statements are correct and that this pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements are correct and that this pump, or valve, conforms to the statements are correct and that this pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms to the statements and the pump, or valve, conforms and the pump, or valve, confo			SERL	AL NO
CERTIFICATE OF COMPLIANCE  certify that the statements made in this report are correct and mer this pump, or valve, conforms to the struction of the ASME Code for Nuclear Power Plant Components. Section III, Div. L. Edition 1974  and N/A	drostedc test 3150	pas.		
certify that the statements made in this report are correct and ther this pump, or valve, conforms to the struction of the ASME Code for Nuclear Power Plant Components. Section III, Div. L. Edition 1974 and N/A Code Case No. N/A Out //12/79  and Walworth Company  Discrete of Authorization No. 1951 to use the No. (NI (NEV) Symbol expires 12/9 (NI (NEV))  CERTIFICATION OF DESIGN  prescriptions on file at Walworth Company, Greensburg, Pa. 15601  The state of the statements of the statement of the			. 4:	33%
certify that the statements made in this report are correct and ther this pump, or valve, conforms to the struction of the ASME Code for Nuclear Power Plant Components. Section III, Div. L. Edition 1974 and N/A Code Case No. N/A Out //12/79  and Walworth Company  Discrete of Authorization No. 1951 to use the No. (NI (NEV) Symbol expires 12/9 (NI (NEV))  CERTIFICATION OF DESIGN  prescriptions on file at Walworth Company, Greensburg, Pa. 15601  The state of the statements of the statement of the		CERTIFICATE OF CO	MPLIANCE	
CERTIFICATION OF DESIGN:  In information on file at Walworth Company, Greensburg, Pa. 15601  In specifications certified by (1) M. N. Bressler  Reg. No. 9411	certify that the statement	I Meda ia atau	- GAINCE	
Code Case No. N/A  Description 1974  Malworth Company  Description No. 1951  CERTIFICATION OF DESIGN  In information on file at Walworth Company, Greensburg, Pa. 15601  In specifications certified by (1) M. N. Bressler  Tenn. Reg. No. 9411	truction of the ASME Cor	de for Nuclear the	id that this pump, or valve, or	oriforms to the cules
Walworth Company  Merutament  ASME Certificate of Authorization No. 1951  CERTIFICATION OF DESIGN:  In information on file at Walworth Company, Greensburg, Pa. 15601  In specifications certified by (1) M. N. Bressler  Tenn. Reg. No. 9411	NT / A		nents. Section III, Div. L. Editi	lon 1974
(Manufacturer)  ASME Certificate of Authorization No. 1951 to use the (NI (NEV) symbol expires 12/9 (NI	inda N/A			
CERTIFICATION OF DESIGN:  in information on file at Walworth Company, Greensburg, Pa. 15601  in analysis report (Class 1 only) on file atN/A  prescribed by (1)MNBressler  the	inda N/A		(Line) Date	
CERTIFICATION OF DESIGNATION on file at Walworth Company, Greensburg, Pa. 15601  a analysis report (Class 1 only) on file at	nda <u>N/A</u> designed Walworth Cor	npagy	2m/20	
CERTIFICATION OF DESIGNATION on file at Walworth Company, Greensburg, Pa. 15601  a analysis report (Class 1 only) on file atN/A  prespecifications certified by (1)MNBreasler  and	ed Walworth Cor	npany by	G. HIII	
pr information on file at Walworth Company, Greensburg, Pa. 15601  at analysis report (Class 1 only) on file at	ed Walworth Cor	npany by	G. Hill symbol	1/12/28
pr information on file at Walworth Company, Greensburg, Pa. 15601  a analysis report (Class 1 only) on file at	ed Walworth Cor	npany by	G. Hill symbol	1/12/29
pr specifications certified by (1) M. N. Bressler  proc. Tenn. Reg. No. 9411	ed Walworth Cor	npany by to use	G. #HIII the (NI (NIFV) symbol	1/12/29
prespecifications certified by (1) M. N. Bressler  prespecifications certified by (1) M. N. Bressler  proc. Tenn. Reg. No. 9411	ands N/A  Desset  Malworth Cor  Distributioner  ASME Certificate of Author	mpany by to use contraction of contraction of	G. HIII the (NI (NEV) symbol	2/12/75 Expires 12/9/8
Reg. No. 9411	ands N/A  Dessi  ed Walworth Cor  (Manufacturer  ASME Cartificate of Author  pri information on file at V	centracation of Valworth Company, Gre	G. HIII the (NI (NEV) symbol	2/12/75 Expires 12/9/8
Reg. No. 9411	and Walworth Core  Menufecturer  ASME Cardificate of Author  in information on file at V	centracation of Valworth Company, Gre	G. HIII the (NI (NEV) symbol	2/12/75 Expires 12/9/8
8 analysis cartified by (1) N/A	and N/A  Description of Marketoner  ASME Cardificate of Author  on information on file at V  analysis report (Class 1 of	CERTIFICATION OF Walworth Company, Greenly) on file atN/A	G. HIII the (NI (NEV) symbol	2/12/75 Expires 12/9/8
we warrant continued by (1)	and Walworth Core  Manustrumer  ASME Certificate of Author  in information on file at Walwaysia report (Class 1 of analysis report)	CERTIFICATION OF  Valworth Company, Greenly) on file of N/A	G. HIII the (NI (NEV) symbol	2/12/75 expires 12/9/8 Dessi
zte Reg. No	ands N/A  Description  Manufacturer  ASME Certificate of Author  pri information on file at V  at analysis report (Class 1 of  pri specifications certified by  the Term.	CERTIFICATION OF  Valworth Company, Green  only) on file atN/A  ov (1) _MNBreasler  leg_No9411	G. HIII the (NI (NEV) symbol	2/12/75 Expires 12/9/8

CENTIFICATE OF SHOP INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Soiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler of Hartford, Conn. 06102 have inspected the pump, or valve, described in this Oats Report on structed this pump, or valve, in accordance with the ASME Code, Section III.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any er for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Data  Commissions  Commissions  (Next Rd Section 1)

#### 8 WO # 9\$-011734-000 SDD 4-6-99

		As Required	ER'S REPORT FOR by the Provisions of	the ASI	RS OR ME Cod	REPLACEN e Section XI	IENTS	3	
1. Owner _T	TENNE	ESSEE VALLEY AL	JTHORITY	Date	10/29/	98			
400	w. s	Name ummit Hill Drive, K	noxville, TN	Sheet		of	•	·	
2. Plant V	<b>V</b> atts	Address Bar Nuclear Plant		Unit	Unit 1				
P. 0	O. Box	Name c 2000, Spring City,	TN, 37381	MMG 9	7-0117	34-000			
		Address by WATTS BAR NU	<del></del>		Repair	Organization P	.O. No.,	, Job Na., etc.	
P.O. BOX 20	000, SI	PRING CITY, TN 3	lame 7381			No N/A			
		Address					······		<del></del> -
4. Identificati	ion of	system 062, CHE	MICAL VOLUME CO	•	ion Dat	e N/A		·	
(b) Applica	able E	dition of Section XI	ASME SEC. III 19 80 Utilized for Repairs of red or Replaced and	r Repla	cement	<del></del>	1, -NO -A- 	NE. Coc	<i>6/2/99</i> Je Case
Name of Comp 1-PCV-068-0340		Name of Manufacturer	Manufacturer Serial No.	Nation Board N		er Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-PC V-008-0340	————	TARGET ROCK	5	1941	2 N	odel BBA	83	REPLACE MENT	Yes
		·							
1-PCV-68-340	0A-A	TARGET ROCK	6	1947	W	del 83A	83	REPLACED	Yes
	-								
7. Description	on of V	Vork REPLACE VA	ALVE.	.t			1		-
8. Tests Cor	nducte	d: Hydrostatic □ F Other □ Pres	Pneumatic   Nomin			essure XIS mp <u>650</u>		ER 1-TRI-68 F	-6.
11	ın., (2	) information in item	of lists, sketches, or ns 1 through 6 on this r of sheets is recorde	report i	s includ	ed on each:	vided sheet,	(1) size is 8 and (3) ead	3½ in. x ch sheet

8 WO # 9**7**-013995-000 500 4-6-99

FORM NIS-2 (Back)
9. Remarks
Applicable Manufacturer's Data Reports to be Attached
TRACKING # RR-02-39 9 113/78
REF. CODE CASE N416-1
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this <u>REPLACEMENT</u> conforms to the
rules of the ASME Code, Section XI.
rules of the Asime Code, Section XI.
Type Code Symbol Stamp NONE.
Certificate of Authorization No. N/A
Signed TH John Mech Eng. Date 4/5 1999
Owner or Owner's Designee, Title  Date 4/5 19
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of <u>Tennessee</u> and employed by <u>HSB   &amp;  </u>
of HARTFORD, CT have inspected the components described in
this
Owner's Report during the period $1/-3-98$ to $4-5-99$ 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.
Inspector's Signature Commissions TN2533  National Board, State, Province, and Endorsements
Date 45-99 19
13

	As Required by the Provisions of the ASME Code, Section III, Div. 1
anulactured by	Targer Rock Corporation 1966E Proadhollow Rd E. Farmingdale, N. Y
anulactured for	Tannessee Valley Authority Chaicanooga, Tennessee

1 Locar	ion of Installation	Sequovah Nucles	enority Convers	a:canooga,	Tennessee		
4. Pump	or Valve	Valve  N Certificate Holder's	(c) Canadian	nlet Size	3 Out	let Size	3 (inch)
	or Type	Serial No.	Registration No.	(d) Or <del>awi</del> ng No.	(e) Class	(f) Nart. Bd. No.	(g) Year Built
(1)	83A	(5) 6		8200-001	1		1983
(Z) (3)							1303
(4)				<del>-1,)86</del>	1077/W	1150	
(5)	-				07241	1133	<b>_</b> [2]
(6)							
(7)							
(8)						·	
(9) (10)						FILMED	FROM B
• ——		PRESSURIZE	ED RELIEF PO	OWER RELIEF	VALVE	XXVIL	BLE CO
		(Brief description	of service for which	n equipment was de	egned)		
Cesign	T Conditions	2485	680			170-	

6. Cesign Conditions 2485 psi 680 "F or Valve Pressure Class 1707

Cold Working Pressure psi at 100°F.

8. Pressure Rataining Pleces

Mark No.	Material Spec. No.	Manufacturer	Remarks
a) Custings			
· .			1
			Wilcia To
· <del></del>		DE	C081983
			<i>~</i> 1
			02816.
		-	
b) Forgings			
Body	ASME SA 182, F316L	(3-10)	·
	, 13102	Carmel Forge	

For manually operated valves only.

(10/77)

his form (E00037) may be obtained from the Codes Come a Code

: 9/ OF 187

<sup>\*</sup> Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form,

Material Socc. No.

Boston, Mass.

Manufacturer

	!
٠	97.05
	PACE

\_ have inspected the pump, or valve, described in this Data Report on = 19  $\frac{83}{}$  , and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data 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. NEW YORK STATE COMMISSION NO. 2288 Commissions ALSO COMMISSIONED IN Penn, Ohlo & Conn. (Nat'l Bd., State, Prov. and No.)

Remarks

	FORM NIS-2 OWN As Required	ER'S REPORT FOR by the Provisions of	REPAIRS the ASME	OR REPLACEM Code Section XI	ENT	<b>X</b>	
1. Owner TENNE	SSEE VALLEY AU	ITHORITY	Date	11/5/9	8		
400 W. Su	Name Immit Hill Drive, Kr	noxville, TN	Sheet -	of			
2. Plant Watts B	Address Bar Nuclear Plant		Unit Ur	 nit 1			
P. O. Box	Name 2000, Spring City,	TN, 37381	mmi	90.00.00		200	
3. Work Performed	by Marth MAI	NT. ILBNP	Type Code	98-00102 Repair Organization 2 Symbol Stamp		JOD NO., HC. VONE	
PO POX 200	O SPRING CI	ame TY, TONN. 37381	/Authorizat	ion No <i>NA</i>			
	Address	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Expiration	Date NA			
4. Identification of s	system ROACT	OR COULANT					
5. (a) Applicable Co (b) Applicable Ed	onstruction Code	Sect III 19 1/ Utilized for Repairs of	Edition,	912 Addenda	. <u>, , , , , , , , , , , , , , , , , , ,</u>	JA Cod	te Case
6. Identification of C	Components Repair	red or Replaced and	Replaceme	ent Components			
Name of Component	Name of Manufacturer	Manufacturer Senai No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SEAL X	Westingwise	2183	N/A	9/N 5055024601	90	REFLACETRE	
* FOR 1-PMP-	268-0031						
			OF			-	
			A				
,							
7. Description of W	lork Replace curtr inspected und	idge seal. Seal was ur wo 96-18330-00	removed f 3. 5/N 218	for RCP 2 during 13. To be inst	RF01	and was in RCP2	•
	d: Hydrostatic 🖫 F	Pneumatic □ Nomin sure <u>- 2500</u> ps	al Operatin	g Pressure 🛫			; ;
11 in., (2)	information in item	of lists, sketches, or ns 1 through 6 on this r of sheets is recorde	report is in	icluded on each s	vided sheet,	(1) size is 8 and (3) ead	1½ in. x ch sheet

9. Remarks TRACKING NO. RR-02-40 111-111/198
Addicable Manufacturer's Cata Reports to Se Artached
CERTIFICATE OF COMPLIANCE
CALL TO THE CITY OF THE CALL O
We certify that the statements made in the report are correct and this RePLACEMENT conforms to the
rules of the ASME Code, Section XI.
rules of the Asimic Code, Section XI.
Type Code Symbol Stamp NONE
Certificate of Authorization No. N/A
Signed The Collins Mack Ever Date 4/13 19 29
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 Tenurser and employed by HSB I of I co.
of Hartford CT have inspected the components described in this
Owner's Report during the period $\frac{11/5/28}{10/28}$ to $\frac{4/15/99}{10/28}$ 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.
loss of any kind arising from or connected with this inspection.
loss of any kind arising from or connected with this inspection.
loss of any kind arising from or connected with this inspection.    Source M. Earning   Commissions   TN2534   "I" "A"     Inspector's Signature   National Board, State, Province, and Endorsements
loss of any kind arising from or connected with this inspection.    Source M. Earning   Commissions   TNA534   "I" "A"     Inspector's Signature   National Board, State, Province, and Endorsements
loss of any kind arising from or connected with this inspection.

PACF 84 OF 18

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS 01023000

As Required by the Provisions of the ASME Code Section XI

20 2	Name	•		Date			····
	CX 2CAC TH	7703 - 7 - 7	, <u>,</u>	SheetL	. at		<del></del>
ant	· Bus Nucl	- ۱۰ مرد برور <u>جمح</u>		Unit			
30 3	ex 2000 32	RING 21 71	<del>-</del> y	den de de	ור RK (ניגו)	LAN K-20	?579A -
	-44 (I <b>464</b>			Repair Org	noization	4.0. Na., 200 Na.	. etc.
Mark Performed by	<u> </u>	Neme		Type Cade Syindo	I Stamp _	4/4	····
				Authorization No.			
	30x 2000 C	PRING 1 -		Expiration Cate _		1/2	· · · · · · · · · · · · · · · · · · ·
dentification of Sys	tem	es Collet	Sucreu	12/2			
		a	_				
i kaalicaale Cans	truction Sude	19	fairian	Symmet 12	4ddenda, _	<u> </u>	_Cade Guse
i) Addicable aditi	an of Section (CLS)	tilized for Repairs	or Replacemen	rs 19 <u>30 1</u> 00			
							ASME
İ				:	i	i	1 (200
İ			National			ਜੋਵpaired,	Code Stamped
Name of	Name of	Manuracturer	National Board	Other	Year	ਜੋਵpaired, ਜੋਵplaced,	1
Name or Component	Name of Manufacturer	Manuracturer Serial No.	;	Other Identification	Year Built	1	Stamped (Yes
Camponent	Manuracturer	Serial No.	Board No.	Identification	3uilt	Replaced, or Replacement	Stamped (Yes )
Companent  Les Commer Ruma    Coal Hausing	Manufacturer  Les anguaise	1	30ard			Replaced,	Stamped (Yes )
Companent  Les Commer Ruma    Coal Hausing	Manufacturer  Les anguaise	Serial No.	Board No.	Identification	3uilt	Replaced, or Replacement	Stamoed (Yes to or No)
Component  Les Count rum I  Coal Housing  Les Total Rum L  Total Housing	Manufacturer  Liec Inghouse  Westinghouse	2/ 3/	30ard No.	Identification अ// अटिट व्यक्त	3uilt	Replaced, or Replacement	Stamoed (Yes to or No)
Component dump !  Soul Housing  Limit Housing  Limit Housing  Limit Housing  Limit Housing	Manufacturer  Liec minimus e  Westinghouse	2/ 3/	30ard No.	3/N    5055 D24 501   P/N    5055 D24 501   P/N    7055 D24 501   P/N	3uit 1940	Replaced, or Replacement	Stambed (Yes or No)
Component  Low Commer Pump    Low Housing  Low Following  Low Housing  Low General Pump 2  Stal Housing	Manufacturer  Liec minimus e  Westinghouse	2/3/, 2/33 2/33	30ard No. N/A N/A V/A	Identification   3/N   5055 D24 G0    7/N   5055 D24 G0    7/N   5055 D24 G0	3ult 1990 1990	Replaced.  Or Replacement  Replacement  Replacement	Stamped (Yes or No)
Component Pump I Soul Housing Limit Housing Tom Common Town I Soul Housing Component Pump I Soul Housing Common I Soul Housing Common I co	Manufacturer  Liec minimus e  Westinghouse	2/3/.	30ard No. N/,4	3/N    5055 D24 501   P/N    5055 D24 501   P/N    7055 D24 501   P/N	3uit 1940	Replaced, or Replacement	Stamped (Yes or No)
Companent Pump I Soul Housing Limit Housing I Tom Companent Pump I Soul Housing Companent Pump I Soul Housing Companent Pump I Soul Housing Companent Pump I Companent Pump I Companent Pump I I I I I I I I I I I I I I I I I I I	Manufacturer  Liec minimus e  Westinghouse	2/3/, 2/33 2/33	30ard No. N/A N/A V/A	Identification   3//N   5055 D24 G01   7/N   5055 D24 G01   1/N   5055 D24 G01   2/N	3ult 1990 1990	Replaced.  Or Replacement  Replacement  Replacement	Stamped (Yes or No)
Commont Pump I Soul Housing Light Housing Tom Commont Pump I Soul Housing Town I Soul Housing Common I Soul Housing Common I Comm	Manufacturer  Liec minimus e  Westinghouse	2/3/, 2/33 2/33	30ard No. N/A N/A V/A	Identification   3//N   5055 D24 G01   7/N   5055 D24 G01   1/N   5055 D24 G01   2/N	3ult 1990 1990	Replaced.  Or Replacement  Replacement  Replacement	Stamped (Yes or No)
Common from I   Coal Housing   Common Description L.   Total Housing   Common L.   Coal Housing   Common L.   Coal Housing   Coal Housing   Coal Housing   Coal Housing	Manufacturer  Lac innermise  Westinghouse  Westinghouse	2/3/, 2/33 2237	30ard No. N/A N/A	Identification   31/N   5055 D24 G01   71/N   5055 D24 G01   71/N   5055 D24 G01   71/N   5055 D24 G01	3ult 1990 1990 1990	Replaced, or Replacement  Lolden ent  Replacement  Replacement	Stamped (Yes or No)
Commander of Wark	Manufacturer  Lac innenous e  Westinghouse  Westinghouse	2/3/. 2/33 2237 2237	30ard No. N/A N/A N/A N/A	Identification   3/N   5055 D24 G01   7/N   5055 D24 G01   7/N   5055 D24 G01   7/N   5055 D24 G01	3uit 1990 1990 1990 1990	Replaced, or Replacement  Loldement  Replacement  Replacement	Stamped (Yes or No)
Commonent  Con Common Aumo II  Con Housing  Com Desart Pump L  Com Common Pump I  Sent Housing  Com Common Pump I  Com Common P	Manufacturer  Lac innenous e  Westinghouse  Westinghouse	2/3/. 2/33 2237 2237	30ard No. N/A N/A N/A N/A	Identification   3/N   5055 D24 G01   7/N   5055 D24 G01   7/N   5055 D24 G01   7/N   5055 D24 G01	3ult 1990 1990 1990	Replaced, or Replacement  Lolden ent  Replacement  Replacement	Stamped (Yes or No)  No  No  Added

items 1 through 6 on this report is included on each sneet, and (3) each sheet is numbered and the number of sneets is ed at the top of this form,

12/92)

neswick,			C FAIR 7 SFII RI CUS	1094 HERAL ORDER NO. 042067 CHASE UNDER NO. 1062-54114-1	OTAL OH OLD OTAL OTAL OTAL OTAL OTAL OTAL OTAL OTAL	1 7 7 6 10 1	HAL	DATE  1/8/90  DOMESTIC  X  FLAMMABLE  FLAMMA	EXPORT	TARIS AND THE
· 73	ETILD  ETILD  ETILD	######################################	1 Λs 15 15	No. 2 Seal Runner		1 (h / )	consists		039  Towling Seals  GOS  GOS  GOS	and No. 2 Housing
1 15	K-POSS794-3 TH E SAGE 1777	1099105 G01 1741C57 H02 5055U24 G01	13			1	(U.v. 6 20	(650	608	9801023

# FORM NPV-1 MANUFACTURERS DATA REPORT FOR NUCLEAR PUMPS OR VALVES\*

As Required by the Provisions of the ASME Code Rules

. Manufactured by	GUCSWICK WAGUE	Electro-Mechanical ue, Cheswick, PA 19	5024	U-363
. Manufactured for	Westinghouse- Monroeville, F	PWRSD Address of Manufactures PA 15230	•	Order No.
		(Name and Address)	1	Order No
	essee Valley Aut		<u>W86</u>	0724K0781 (
Lecation of Plant	Spring City,	Tennessee		·
Pump or Valve Ide	entification S/N	2-114E921-G01		
Provide Reac	tor Coolant Flow	in Westinghouse P	ressurized Wate	er Reactor
· .				
(a) Drawing No.	114E921	Prepared by Westi	nghouse Electri	c Corporation
(b) Nation, Board	No. <u>N/A</u>			FILMED FROM BEST
Design Conditions	2500	psi650	°F	AVAIL/BLE COPY
The material, desi	gn, construction and	(Temperatu	re)	
	with the state of	Ramanamp complies	CUE C 1, Came	~· 1
			and a contraction of	
Edition 1971	Addenda D	Summer 1972	Case vo N/A	Clare
Edition 1971	nts I through 4	for Items (a) thro	Case No. N/A ugh (d) below	Gless
See Attachmer	Addenda D	Summer 1972	Case vo N/A	20041
Edicion 1971 See Attachmer	nts I through 4	for Items (a) thro	Case No. N/A ugh (d) below	
Edition 1971 See Attachmer	nts I through 4	for Items (a) thro	Case No. N/A ugh (d) below	
Edicion 1971 See Attachmer	nts I through 4	for Items (a) thro	Case No. N/A ugh (d) below	
Edicion 1971 See Attachmer	nts I through 4	for Items (a) thro	Case No. N/A ugh (d) below	
Edicion 1971 See Attachmer	nts I through 4	for Items (a) thro	Case No. N/A ugh (d) below	
Edicion 1971 See Attachmer	nts I through 4	for Items (a) thro	Case No. N/A ugh (d) below	
See Attachmer	nts I through 4	for Items (a) thro	Case No. N/A ugh (d) below	
Edition 1971 See Attachmer	nts I through 4	for Items (a) thro	Case No. N/A ugh (d) below	
Edition 1971 See Attachmer	nts I through 4	for Items (a) thro	Case No. N/A ugh (d) below	
Edition 1971 See Attachmer Castings	nts I through 4	for Items (a) thro	Case No. N/A ugh (d) below	
Edition 1971 See Attachmer Castings	, Addenda D nts 1 through 4  Mark No.	for Items (a) thro	Case No. N/A ugh (d) below	
Edition 1971 See Attachmer Castings	nts I through 4	for Items (a) thro	Case No. N/A ugh (d) below	
Edition 1971 See Attachmer  Tai Castings	, Addenda D nts 1 through 4  Mark No.	for Items (a) thro	Case No. N/A ugh (d) below	
Edition 1971 See Attachmer  Tai Castings	, Addenda D nts 1 through 4  Mark No.	for Items (a) thro	Case No. N/A ugh (d) below	
Edition 1971 See Attachmer Casting:	, Addenda D nts 1 through 4  Mark No.	for Items (a) thro	Case No. N/A ugh (d) below	
Edition 1971 See Attachmer  Tai Castings	, Addenda D nts 1 through 4  Mark No.	for Items (a) thro	Case No. N/A ugh (d) below	
Edition 1971 See Attachmer  Tai Castings	, Addenda D nts 1 through 4  Mark No.	for Items (a) thro	Case No. N/A ugh (d) below	
Edition 1971	, Addenda D nts 1 through 4  Mark No.	for Items (a) thro	Case No. N/A ugh (d) below	
Edition 1971 See Attachmer  Tai Castings	, Addenda D nts 1 through 4  Mark No.	for Items (a) thro	Case No. N/A ugh (d) below	

	Mort No.	Material Spec. No.		
(c)	Balting	300C. No.	Manufacture	Romarks
(d)	Otner Parts			
-				
. Hydros	saticites 3750	pai. (Pump Code Pa		FILMED FROM BEG.
	-			AVAILABLE COPY
		CERTIFICATION OF C		
Design i	ntomacion on file at Westingho	use Electro-Mechan	lical Division	
Scress at	profitications certified by RODOP	t. 1. Sylvester	(1) Prof. Eng. Stare	PA 2 115112 5
(1) Signa	proceedings corrected by RODOR ally six report correlated by Dr. O ture not required. List name only.	<u>nagen</u>	(1) Prof. Eng. State	PA 3 No. 19091 -F
We certif	y that the statements made in this r	sport we correct.		
	tober 13 19 81 Signer	WAC ** nahe C3	ctro-	
		(種の内は、までしいまって)		and a company
Certifics	te of Authorization No. N-1385	expires May 14.	1982	1
	CCD			
	CER	TIFICATE OF SHOP INS	SPECTION	
l, che	undersigned, holding a valid comm	ission issued to the Minister		
and/of the	undersigned, holding a valid comm Stars of Province of PENNSYL NG GROVE, ILLINOIS	VANIA and sweet of the Nation	over by LUMBERMEN'S	ressure Vessel Inspectors
Report on	7		ive inspected the ami-	
Tas const	cocced ship and			ient describes in mis Data
ing the ec	ming this certificate, neither the fr quipment described in this Data Rep. r any personal injury or property disc	Percent not his employer -		CRICE III.
nanner for	purpose this certificate, neither the frapulation described in this Data Report any personal injury or property data	ort, nurthermore, neither the page or a loss of any kind a	e inspector nor his couple	over snall be liable in any
	My Miles CO	MMISSIONS	A.113	with this inspection.
	(INSPECTOR.)	(NATIONA	L BOARD, STATE.	20041405 440 460
TVESS	OCT. 1 3 1981 19		3/3/	PROVINCE AND NO.)
	ED COMPLETED PUMP ASSEMB	LY HYDROSTATIC TES		for /O minutes
es tingl	nouse Representative	Thanks & Rio	<del></del>	
Fo 7,	11 Whiles 10-20	C	59.05	10-24-51

E AND NO.)

E and No.)

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Description.

Descri

(Date)

#### ATTACEMENT TO FORM MPV-1

Page I of

We:	stinghousePWF nroeville, PA	hesvick, Pa. 15024	Order No. 54	-363  6-NRC-151972-21
Drawing Amber	114E921 N/A		Serial Mumber	2-114E921G01
Component	Part Humber	Material Spec. No.	Manufacturer	Seri
1A Main Flange	929C354G 01 1306C07G 01	TA-351 Gr CT8 SA-479 Type 304 & SA-213 Grade T7304	Esco Corp. Ionics	30 330
2 Main Flange Bolts (24)	913C495 <u>GO1</u>	SA-540 Grada 324  SILMED FROM BEST AVAILABLE COPY	J. Dyson	9005 3007 3 8778 9083 3 9085 9087 36 9069 9064 96 9070 9082 36 9084 9086 36 9081 9071 87 9001 8777 96
3 Lower Seal Housing Bolts (12)	4129A37 <u>H16</u>	SA-194 Grade B7	Radform Tool	2473 2437 22 2401 2309 21 2397 2406 24 2407 2459 22
Upper Seal Bousing Bolts (12)	4129A36 <u>H10</u>	SA-193 Grada 37	Safety Socket	2111 2594 22 2118 2597 22 2667 2249 21 2244 2089 22

#### ATTACHMENT TO FORM MPV-L

7422 2 a:

L incoured by	Cheswick Avenue, Cheswick, Pa. 15024	Order No. <u>U-363</u>
Manufactured for	WestinghousePWRSD Monroeville, PA	
		Order No. 546-NRC-151972-31
Drawing Number	114E921 .	Serial Number 2-114E921G01

Macional Board Number \_\_\_\_N/A

Component	Parc Number	Material Spec. No.	Manufacturer	Serial Number(
5 Thermal Barrier	510F365G <u>01</u>	Not Applicable		
SA Flanga	SIOF 364GO:	SA-182 Grade 7 304	Standard Steel	219
Sater Connection	9258950G <u>02</u>	Not Applicable		
Flange	9558758H_02	SA-182 Grade 516	Mostern Forge	<u>2659 2656 28</u>
58.2 Pipe	9258950н_05	SA-312 Grade Tp 305	Babcock & Wilcox	<u>2862 2363 25</u>
5C Pressure Tap	9258949G	Not Applicable		
SC.1 Flange	955379811	SA-132 Grade 316		·W/3
5C.2 Pipe	92529494	SA-312 Grada Ly 304	·	<u> 4/a</u>
50.3 Reducer	9553799н	SA-182 Grade 316	FILMED FROM BES AVAILABLE COPY	4/2
			, , , ,	

PAGE 10/ 0F 18

6-6

#### ATTACEMENT TO FORM NEV-L

Page 3 of (Speci)

Westinghouse Electro-Mechanical Division afactured by Cheswick Avenue, Cheswick, Pa. 15024

Order No. U-363

Westinghouse--PWRSD Manufactured for Monroeville, PA

Order No. 546-NRC-151972-8N

Drawing Number 114E921

4

Secial Humber 2-114E921601

Marianal Board Number	<u>.</u>				
Component	Part Material Mumber Spec. No.		Manufecturer	Serial Number(:	
6 Lower Seal Housing (Spool)	933D313 H03	SA-182 7304	Standard Steel	853	
6A Thermowell	9558797 <u>¤ ()2</u>	SA-479 Type 304	Simonds Scee!	1579	
62 No. 1 Leak Off Connection	913C741G <u>02</u>	Not Applicable	FILMED FROM BEST AVAILABLE COPY		
68.1 Plange	955B758H 02	SA-132 Grade 316	Western Forge	2562	
6B.2 Pipe	913C741H 05	SA-312 Grade Tp 304	Babcock 3	2893	
6C Lift Off Connection	913C533G <u>02</u>	Not Applicable			
6C.1 Flange	955B756 <u>a 02</u>	SA-182 Grade 316	Western Forge	2815	
6C.2 Pipe	913C533H <u>05</u>	SA-312 Grade Tp 304	Allegheny Ludlum	2754	
7 Upper Seal Housing (Spool)	933D309′H <u>O4</u>	SA-182 F304	Standard Steel	, 374	
7A No. 2 Leak Off Connection	929C852G <u>04</u>	Not Applicable			
1 Flange	955B798H <u>02</u>	SA-132 Grade 316	Western Forge	2747	
.2 Pipe	929C852H07	SA-312 Grade Tp 304	U.S. Steel	2899	
				47 S	

Manufactured by	Westinghouse Elec	ATTACHMENT TO FORM NPV-	Page 4 of 4
	WestinghousePWF Monroeville, PA	RSD	Shap Order
brawing Number	114E921		Purchase Order 546-NRC-151972
National Board No	N/A		Serial No. 2-114E921G01
The following Rea (N-2 Form).	ictor Coclant Pump		own Manufacturers' Data Repor
Serial Number 924	Part	<u> Number</u> E968H0I	Manufacturer Esco Curp.

FILMED FROM BEST AVAIL/ BLE COPY

AGE 103 OF 187

187	
T L	
100	
して	
DA	

	FORM NIS-2 OWN As Required	ER'S REPORT FOR by the Provisions of	REPAIRS the ASME	OR REPLACEN Code Section XI	ENT	3	
1. Owner TENN	ESSEE VALLEY AL	JTHORITY	Date	3-31-	.99	***************************************	
A00 W. Summit Hill Drive, Knoxville, TN			Sheet	of	<u> </u>		
Address  2. Plant Watts Bar Nuclear Plant		Unit Ur	 nit 1				
Name P. O. Box 2000, Spring City, TN, 37381			WARY A	apped de		0212	20.7
3. Work Performed by TVA MODIFICATIONS			F	Repair Organization Per Symbol Stamp	O No	Job No., etc.	203
WATTS BAR NUCLEAR PLANT			Authorizat	·		1/1	· · · · · · · · · · · · · · · · · · ·
WALL S ISHE	Address	<del>(O)</del>			^	114	
4. Identification of	system AGR -	REACTOR COOLAI	Expiration			4/A	
5. (a) Applicable C		415C 771 19	•				
		Utilized for Repairs			', <u> </u>	U/A Cod	te Case
		red or Replaced and			<del></del>		
o. identification of	odinpolicina ivepal	red of Replaced and	Replaceme	ent Components		1	ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	Code Stamped (Yes or
STEAM GENELATOR BOUTS	NOVA	NA	NA	N/A	MA	REPLACEMENT	No)
150515	740071	TSTA	74/74	/*/A	1/14	· Cieur	~~
}							
		·					:
·							
7. Description of V	Vork REPLACE STE	AM GENERATUR	JAPER LA	TELAL RESTEA	INT	SPUCE BO	LTING
8. Tests Conducte	d: Hydrostatic 🗆 P Other 🗘 Pres:	Pneumatic D Nomin sure NA ps	al Operatin ii Test Te	g Pressure, □ emp <u> </u>	F		:
11 in., (2)	) information in item	of lists, sketches, or as 1 through 6 on this of sheets is recorded	report is in	cluded on each s	vided heet,	(1) size is 8 and (3) eac	½ in. x h sheet

9. Remarks	Trackin -	# 98-02-	41 99	ા ( બેવક				
		Applicab	ole Manufactule/9	Calà Reports to be	attached			
·								
	<del></del>				······································			
		CER	TIFICATE	OF COMPLIA	ANCE			
, We certify tha	at the statement	ts made in the	report are	correct and the	nis <i>REPLAI</i>	ZEMENT_conf	oms to the	ı
	ASME Code, Se		·			replacement		
rules of the A	Code, Se	Ction XI.						
Type Code S	ymbol Stamp		٨	11				
Certificate of	Authorization N			14				
./	41/	10	1	<u> </u>		71.00.00	,	
Signed /	M DO COU	vner or Owner's D	esignee, Title	ENGIL	Date	31 MARCH	19 <u></u> 9	9
· · · · · · · · · · · · · · · · · · ·		CERTIFIC	ATE OF IN	SERVICE IN	SPECTION	<u> </u>		
I the undersi	aned holding a	valid commis	noiesi noies	by the Natio	nal Board o	f Boiler and Pressi	iro Vaccal	
	d the State or F		/			GAI+I Co		
of Hart	1/ /					nents described in	***************************************	
Owner's Rep	ort during the pe	eriod ///C				and state t		est
of my knowle	dge and belief,	the Owner ha				n corrective measu		
in this Owner	's Report in acc	ordance with t	the requirer	nents of the A	ASME Code	e, Section XI.		
By signing th	is certificate nei	ther the inspe	ctor nor his	employer ma	akes any wa	irranty, expressed	or implied,	
concerning th	e examinations	and correctiv	e measures	described in	this Owner	's Report.' Further	more, neith	ier
					y personal i	njury or property d	amage or a	
loss of any ki	nd arising from	or connected	with this ins	spection.				
					-/ -			
Mes	tuffer	Zec E	ommissions		12573			į.
IIISP	ector's Signature	# <i>QC</i> (		National E	soard, State	, Province, and Er	idorsement	S
Date	-/	19_ <i>77</i>					1 1	i
								•
						,	·	•
	<del></del>							

	101
1	L
(	
,	100
L	L
C	-
<	1
C	_

	As Required	By the Provisions of	the ASME	Cod	REPL e Sec	ACEN tion XI	MENT:	S	
1. Owner TENN	ESSEE VALLEY AU	JTHORITY	Date		4-	1-9	9		
400 W. S	Name Summit Hill Drive, K	noxville, TN	Sheet	1	of	2	•		
2. Plant Watts	Address Bar Nuclear Plant		Unit U	nit 1	_				
P. O. Box	× 2000, Spring City,	TN, 37381	WORK (	CRD	ER.	98	-01	0243 -	$\infty$ 1
3. Work Performed	d by TVA MODI	FICATIONS	Type Cod	Repair le Syl	Organi mbol S	zation P Stamp	.O. Na.	, Job No., etc.	
WATTS BAR NUCLEAR PLANT			Authoriza	tion N	۷٥		~	1/A	<u> </u>
,	Address		Expiration	n Date	e		N.	A	
4. Identification of	Identification of system 068 - REACTOR COOLANT / OOI MAIN STEAM								
5. (a) Applicable Construction Code AISC 18 THEdition, W/A Addenda, W/A Code Case									
(b) Applicable E	dition of Section XI	Utilized for Repairs of	r Replace	ment		1989		14/14	5436
6. Identification of	Components Repai	red or Replaced and	Replacem	ent C	ompo	nents	<del>_</del>		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Othe	er Identii	fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or
STEAMGENELATOR BOLTS	NOVA	N/4		1			<del></del>	REPLACEMENT	No)
130015	140414	N/H	N/A	-	NI	<u>-</u>	N/A	GILLAEUT	No
				-					
	·								
				1	<del></del>				
7. Description of V	Vork REPLACED	ONE BOUT FOR SG Z	2 Uppa	LATE	ZAL E	 2ESTI	ZAINIT	SPLICE PL	ATZ=
	d: Hydrostatic 🗆 P Other 🗈 Press	neumatic □ Nomina sure <u>N/A</u> ps	al Operatin ii Test T	ig Pre emp	essure	<u>"</u>	'F		
11 I <b>n</b> ., (2	) information in item	of lists, sketches, or is 1 through 6 on this of sheets is recorded	report is in	nclude	ed on a	each s	vided sheet,	(1) size is 8° and (3) eac	½ in. x h sheet

TO LOTY LOGG

PAGEOF	
--------	--

	FORM NIS-2 OWN As Required	IER'S REPORT FOR by the Provisions of	REPAIRS	OR REPLACE	MENT.	S	
1. Owner TENNI	ESSEE VALLEY AU		Date	3-31-99			
400 W. S	Name Summit Hill Drive, K	noxville, TN	Sheet -	of		· · · · · · · · · · · · · · · · · · ·	
2. Plant Watts	Address Bar Nuclear Plant		Unit Ur	nit 1			
P. O. Box	x 2000, Spring City,	TN, 37381	WORK OR	DER 98-011	1243	-000	
3. Work Performed	by TVA Mop	FICATIONS	Type Code	Repair Organization e Symbol Stamp	2.O. No. D	, Job No., etc.	
WATTS		LANT	Authorizat	ion No		W/a	
A laka akista aki a sase	Address .		Expiration	Date		· w/	
4. Identification of	system 068	-REACTOR COOLA	NT GOIR	MAIN STER	M		
5. (a) Applicable C			娃dition,	N/A Addend	a,	N/M Cod	de Case
(b) Applicable E	dition of Section XI	Utilized for Repairs of	r Replacer	nents 1989			
6. Identification of	Components Repai	red or Replaced and	Replaceme	ent Components	<del></del>		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SUPPORT BOUTUG	NOVA	MIA	NIA	NIA	NA	REPLACEMEN	T N
							-
		118.					
					-		
	-		·				
						-	
7. Description of V	Vork REPLAC	LE UPPER STEA	nGENER	LATING LATE!	ZAL . K	ZEST PAINT	501/#
			,			BOL	TING
8. Tests Conducte	d: Hydrostatic 🖂 P	neumatic ☐ Nomina sure <u> </u>	al Operation	n Pressure 🕾		•	
NOTE: Supplem							
11 in., (2)	) information in item	of lists, sketches, or is 1 through 6 on this of sheets is recorded	report is in	cluded on each	vided sheet,	(1) size is 8 and (3) eac	½ in. x th sheet

engang beranda ang ketapan kengan telapan di pengan beranda ang pengan pengan di di terbahan pengan beranda me Pengan pengangan pen

WO#	98	- 1	0243-	0	0
				-	•

FORM NIS-2 (Back)
9. Remarks [Lucking + 12-02-44 ld 11/6/48
Applicable Manufacture s Cata 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
Certificate of Authorization No.
Signed // Cours Designed Title Date 3/ MARCH 19 99
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 TFT ca
of Harl ford c1. have inspected the components described in this
Owner's Report during the period
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the
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.
Ruce M Earning   Commissions   TN 2534   T N " A"     Inspector's Signature   National Board, State, Province, and Endorsements
Inspector's Signature National Board, State, Province, and Endorsements
Date 4/1 19 9 ?

172 Paga 1427 5. 224 NKS 4.7.99

	As Required	by the Provisions of t	the ASME.	Code Section XI	· ·			
1. Owner TENNESSEE VALLEY AUTHORITY			Date	4-12-7	)			
Name 400 W. Summit Hill Drive, Knoxville, TN			Sheet	1 of 2	) -			
Address  2. Plant Watts Bar Nuclear Plant			Unit Unit 1					
P. O. Box	Name c 2000, Spring City,	TN. 37381	WORK O	Repair Organization P	-00	7950-00	00	
3. Work Performed	Address MoDIF	PICATIONS	Type Code	Repair Organization P Symbol Stamp	O. No	Lab No., atc.	ļ	
	ICLEAR PLANT	ame	Authorization No W/4					
?	Address		Expiration Date W/A					
4. Identification of	system	Steam Gen	erator	- Blowdow	un			
(b) Applicable 5	dition of Section XI	19 71 Utilized for Repairs of the decident of Replaced and	r Replacer	nents 1989	<sup>1.</sup> <u>и</u> .	-416-1 Co	de Case	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other (dentification	Year Built	Repaired. Replaced, or Replacement	ASME Code Stamped (Yes or No)	
1-PIPE-015-B	4/4	N/4	N/A	N/A	1/4	REPLACEME	r No	
7. Description of	Work Replaced	piping sect stream of 1-1	tion fro	om I-FCV-	<u> -7</u>	to 900	legree	
NOTE: Suppler	ed: Hydrostatic 🗀 F Other 🗇 Pres nental sheets in form	Prince of 1-19 Prince	al Operatir si Test T drawings i	ng Pressure 🗴 emp <u>55.3</u> may be used, pro	'F ovided	I (1) size is	8½ in. x	

is numbered and the number of sheets is recorded at the top of this form.

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

DACE 1/0 OF 18

FORM NIS	-2 (Back)
9. Remarks REF. CODE CASE N-41	6-1. TAACH W. # RR-02-45-6-10-10
Applicable Manufacturer's Ca	ta Reports to se Attached
	į
CERTIFICATE OF	COMPLIANCE
We certify that the statements made in the report are co	rrect and this 229LACE MENT conforms to the
	repair or replacement
rules of the ASME Code, Section XI.	•
Type Code Symbol Stamp	1 Tak + 12 97
Certificate of Authorization No.	A GO 4 12-12
2	
Signed Signed Construction Owner's Designee, Title	FLAMSEZ Date 4-12 19 37
CERTIFICATE OF INS	ERVICE INSPECTION
CERTIFICATE OF INS	ERVICE INSPECTION
I, the undersigned, holding a valid commission issued b	
Inspectors and the State or Province of Tennessee	and employed by <u>438 IEEE co</u>
of Hartford OT hav	e inspected the components described in this
Owner's Report during the period	to 4/12/27 and state that to the best
of my knowledge and belief, the Owner has performed of	examinations and taken corrective measures described
in this Owner's Report in accordance with the requireme	ents of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his e	mployer makes any warranty, expressed or implied.
concerning the examinations and corrective measures of	described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any ma	nner for any personal injury or property damage or a
loss of any kind arising from or connected with this insp	ection.
,	
Row W Emish commissions	TV 2534 TN A
Inspector's Signature	TN 2 5 3 4 TN A  National Board, State, Province, and Endorsements
Date 4/12 19 99	
Date	

	F		R'S REPORT FOR							
	751115			_		-				
. Owner		SSEE VALLEY AU		Date	4-12-3					
40	00 W. St	ımmit Hill Drive, Kn	oxville. TN	Sheet	/ of	2				
2. Plant	Plant Watts Bar Nuclear Plant				it 1					
ρ	. O. Box	2000, Spring City.	TN, 37381	WORK ORDER # 98-007950-001  Repair Organization P.O. No., Job No., etc.						
3. Work Pe	erformed	by TVA MoDIF	ications	Type Code	epair Organization P Symbol Stamp	0. Na.,	Job No., ∌tc.			
		LUCIEAR PLAN	ame	Authorizati	on No	,	4/1	:		
Nitro		Address		Expiration	Date	<i>}</i> +	)A			
, 4. Identific	ation of s	system 015	Steam Gene				/			
(b) Appi	iicabie =	onstruction Code Z	ASME II 19 7/ Utilized for Repairs of red or Replaced and	Edition, <u>S</u> or Replacen	Addend 1989	a <u>.</u>	<u> </u>	e'Case :		
Name of Co	omponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Suilt	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)		
1-PIPE-	015·B	N/A	MIR	N/4	N/A	N/A	Represent	No		
				-						
	·····									
						+				
				<u> </u>						
	· · · · · · · · · · · · · · · · · · ·						i			
								<u> </u>		
	4									
7. Descri	ption of \ Conducte	Nork <u>Replaced</u> e/bow 4/ ed: Hydrostatic = 1	piping sect ostream of Pneumatic I Nomin ssure 1074	ion from from from from from from from from	7-156 ng Pressure X emp 553	- / - /	A to 90	degree		
	11 in., (	2) information in iter	n of lists, sketches, o ms 1 through 6 on thi er of sheets is recorde	s report is i	ncluded on eact	rovided n sheet	1 (1) size is 8 1, and (3) ead	3½ in. x ch sheet		

PAGE 1/2 OF 1/8

FORM NIS						
9. Remarks Ref. Code Case N-41	6-1 TRACE NO # RE-02-46 Literal					
application wanting cure is a	ia Nebula .3 de Aldunea					
OCCUPATION AND AND AND AND AND AND AND AND AND AN	T COMPLIANCE					
CERTIFICATE O	- COMPLIANCE					
We certify that the statements made in the report are co						
rules of the ASME Code, Section XI.	repair or replacement					
Tales of the New 2 3335, 233131174.						
Type Code Symbol Stamp	A FA 1/20%					
Quilliant of Nathagingting Na	A 1984.12.3.2  Lange Date 4-12. 19 99					
Certificate of Authorization No.	74 - 143 - 120)					
Signed Owner or Owner's Designee. Title	lander Date 4-12- 19 97					
	· · · · · · · · · · · · · · · · · · ·					
CERTIFICATE OF INS	ERVICE INSPECTION					
I, the undersigned, holding a valid commission issued b	y the National Board of Boiler and Pressure Vessel					
Inspectors and the State or Province of Truesses	and employed by HSB IEE 20					
of HATES-d CT. hav	e inspected the components described in this					
	to 4/12/99 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 requireme	ents of the ASME Code, Section XI.					
By signing this certificate neither the inspector nor his e	mployer 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 ma	nner for any personal injury or property damage or a					
loss of any kind arising from or connected with this insp						
B. m. E. I	Tune 244 "-" "1" "4"					
Bruce M. Earning. Commissions Inspector's Signature  Date 4/12 19 3 ?	National Board, State, Province, and Endorsements					
1/12						
Date						

			ER'S REPORT FOR by the Provisions of			ENT	3	
1. Owner	TENNE	SSEE VALLEY AU	ITHORITY	Date	4-12-9	7		
40	00 W. S	Name ummit Hill Drive, Kr	noxville, TN	Sheet	1 of 2	•		
2. Plant	Watts 8	Address Bar Nuclear Plant		Unit Ur	nit 1			
Р	O. Box	Name 2000, Spring City,	TN. 37381	WORK	ORDER # 98	3-00	7950-0	002
3. Work Pe	rformed	Address by TVA MODIF	CATTONS	Type Code	ORDER # 98 Repair Organization P e Symbol Stamp	О. No.	No., etc.	
,		UCLEAR PLANT		Authorizat	ion No		1/4	
ć		Address		Expiration	Date		/1	
4. Identifica	ation of	system <u>015</u> ,	Steam Ger	nerato	r Blowdo	wn		
(b) Appl	icable E	onstruction Code A	ASME TT 19 7/ Utilized for Repairs of red or Replaced and	Edition. <u>5</u> or Replacer	Addenda	וע	1 18 6/8/ <del>216-1</del> 500	e Case
Name of Co	mponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Buit	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-PIPE-0	15-B	N/A	N/X	N/A	N/4	N/A	REPLECTOR	No.
1							The second secon	. <u></u>
7. Descrip	ition of V	Nork Replaced	piping section	ion from	on I-FCV-	/-	to 90	degas
8. Tests C	onducte	ed: Hydrostatic 🗀 F Other 🗇 Pres	pring sectors of Preumatic Noming Source 1032 points of lists, sketches, or	ial Operatir si Test T	emp <u>554</u>	°F		

DACE NO OT

FORM NIS-2 (Back):	
9. Remarks Ref. Code Case N-4/6-1	. TRACHOL # PROZ-+7
Applicatie Manufacter's Data Reports to 1	ie Androsed ————————————————————————————————————
CERTIFICATE OF COMPL	IANCE
We certify that the statements made in the report are correct and rules of the ASME Code, Section XI.	this <u>REPLACEMENT</u> conforms to the repair or replacement
	2.)?
Type Code Symbol Stamp  //   Certificate of Authorization No.  //   //   //   //   //   //   //   /	2.17
of WATE a	wse Date 4-12 19 39
Signed Congres Designee, Title	19 <u>7/</u>
CERTIFICATE OF INSERVICE I	
I, the undersigned, holding a valid commission issued by the Nati	
Inspectors and the State or Province of Texas and empore of Hart Ford CT. have inspected	and the components described in this
Owner's Report during the period 4//5/93 to 4/	
of my knowledge and belief, the Owner has performed examinating	
in this Owner's Report in accordance with the requirements of the	
By signing this certificate neither the inspector nor his employer n	
concerning the examinations and corrective measures described	
the inspector nor his employer shall be liable in any manner for a	
loss of any Rind arising from or connected with this inspection.	ny paradian'ny ary ary aran'ny aritr'i dia
Inspector's Signature Commissions To 2.  National	T " " " " " " " " " " " " " " " " " " "
Inspector's Signature National	Board, State, Province, and Endorsements
Date <u>4//2</u> 19 39	

_			ER'S REPORT FOR by the Provisions of			ENTS		
. Owner	TENNE	SSEE VALLEY AU	THORITY	Date	4.12.9	<b>ブ</b>		
40	00 W. S	Name ummit Hill Drive, Kr	ioxville, TN	Sheet	/ of	Z-		:
. Plant	Watts 8	Address Bar Nuclear Plant		Unit Un	nit 1			
ρ	. O. Box	Name 2000, Spring City,	TN, 37381	WORK	ONDER # 9	18-0	007950-	-003
3. Work Pe	rformed	by TVA MoCIFIC	ATIONS	Type Code	Repair Organization P Symbol Stamp	O. No.,	Job No., ∋tc.	
WATTS	BAR N	LUCLEAR PLANT	ame	Authorizat	ion No	^	1/4	
Address				Expiration	Date	4	1/A	
4. Identifica	ation of	system <u>015,</u>	Steam Ge	enerat	or Blows	own	100.66	
(b) Appli	icable E	dition of Section XI	Utilized for Repairs of red or Replaced and	r Replacer	nents 1989	_	416-1 500	e Case
Name of Cor	mponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built		ASME Code Stamped (Yes or No)
1-PIPE-O	15-B	N/A	NIA	N/4	NIA	NA	REPLACE NEAT	No
	<del> </del>							
7. Descrip	tion of \	Nork Replaced	piping sect	ion from	m 1-FCV-1-	·32	to 90 a	legree
8. Tests C	Conducte	ed: Hydrostatic 🗆 F Other 🖽 Pres	Pneumatic : Nomin sure <u>lo75</u> point of lists, sketches, or	ial Operatir si Test T	remp <u>553</u>	°F		
			ns 1 through 6 on this					

is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)	بنب
9. Remarks Ref. Code Case N-4/6-1. TRACKING # pr. 22-23	11/1/19
Replicable Hanufacturer's Cufa Reports to de Pitached	
	· · · · · · · · · · · · · · · · · · ·
	···
CERTIFICATE OF COMPLIANCE	
i O a	
We certify that the statements made in the report are correct and this KEPLACEMENT conforms repair or replacement	to the
rules of the ASME Code, Section XI.	
Type Code Symbol Stamp	
Type Code Symbol Stamp	<u> </u>
Signed Kurth Carriel Const Evgn Date 12 April 19	<del></del>
Signed With Carry Const EVGR Date 12 April 19 Owner or Owner's Designee, Title	9 <u>99</u>
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Ve	accai
Inspectors and the State or Province of Tempesses and employed by ASR TET 39	,3361
of Hartford ct. have inspected the components described in this	
Owner's Report during the period \( \frac{11\lambda 17\R}{2\lambda 12\lambda	the best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures d	escribed
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 im-	plied.
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	e or a
loss of any kind arising from or connected with this inspection.	
Successions To 2534 I National Board, State, Province, and Endorse	A
·	ements
Date	

Owner TENNE	ESSEE VALLEY AU	THORITY	Date	4-4-9	ج		
400 W. S	Name ummit Hill Drive, Kr	noxville, TN	Sheet	/ of	/		
Plant Watts	Address Bar Nuclear Plant		Unit Un	nit 1			
P. O. Box	Name 2000, Spring City,	TN, 37381	W	0# 98-007	195.	4-000	
Work Performed	Address by TVA ME	CH MODS	Type Code	P# 98-007 Repair Organization P Symbol Stamp	O. No.,	Jab No., etc.	
K'ATT1		ame	Authorizati	ion No	λ'/		9 7
į	Address		Expiration	Date			
Identification of	system 003	- Feedwater					
(a) Applicable C		ASME III 1971	•	73 KHC 11-12-95 135444 Addenda	1/4	2/9/2 6/8/99 Cod	e Case
		Utilized for Repairs of	. <u> </u>	· ·			
Identification of	Components Repai	red or Replaced and	Replaceme	ent Components	_		
						Repaired.	ASME Code Stamped
lame of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No	Other Identification	Year Built	Replaced, or Replacement	(Yes or No)
PIPE-003-B	N/A	N/A	N/A	N/A	<i>1</i> √ <i>1</i>	Reliacement	$\mathcal{N}_{\mathcal{C}}$
-c34-498	N/M	NIA	NIA	NA	14/#	LETUACEMENT	No
- C3A - 499	NIA	NIA	NIA	N/A	MA	REPLACEMENT	No
-c3A-500	N/A	N/A	N/A	N/A	N/A	AFULTAEU	No
						1	
. Description of	WORK Replace	existing 6" Moly.	ф Carb	on Steel Pi	ping	with	7.1
		Pneumatic = Nomir			*		
	Other 🗆 Pres	surep	si Test T	emp			KAC,
¥ KULT	OM/FAKAGE TEST	DEPERSED TO 1-	TRI-3-90	5 ( WOLL DEDUK !	18-01	587Z-0∞)	4-5.99

PACE 110 OF

Pg \_\_\_\_ OF \_\_\_

			FORM NIS	-2 (Back)		. A Award Control of Z
9. Remarks	CODE	CASE. N	-416-1	ila reports to be ana	TRACRISC	# RR-02-49 Illapape
;		CE	RTIFICATE O	F COMPLIAN	CE	
We certify th	nat the stateme	nts made in th	ne report are co	prrect and this	REPLACEMEN	conforms to the
	ASME Code, S				repair or replace	
rules of the	ASIVIC Code, C	dection XI.				
Type Code S	Symbol Stamp		W/			
Certificate o	f Authorization	No	A			
	1 with C	.10	D. 1. +		Date 5 Ap	. 06
Signed _/	mo (page)	Owner or Owner's		NGR	Date <u>5 /+p</u>	19 <u>79</u>
		CERTIF	ICATE OF INS	ERVICE INSP	ECTION	
	-		/	•	d by <u>1/5/5</u>	and Pressure Vessel
	thord CT				e components d	
	7	period //-	17-95	to 4-5	-49	and state that to the best
						tive measures described
				•	ME Code, Section	
"			•			expressed or implied.
•						ort. Furthermore, neither
the inspecto	or nor his emplo	yer shall be li	able in any ma	nner for any p	ersonal injury or	property damage or a
loss of any	kind arising froi	m or connecte	ed with this insp	ection.		
1	the Sa	<u> </u>	Commissions	TN	2533	¥4 .20
los	pector's Signat	ure .		National Boa	ard, State, Provi	nce, and Endorsements
Date	4-5	_ 19 <u><i>9</i>9</u>				
						;

Pg \_\_\_\_ OF \_\_\_

Owner TENNE	ESSEE VALLEY AU	THORITY	Date	4	-5-99			
400 W. S	Name ummit Hill Drive, Kn	oxville, TN	Sheet	1	of 2-			
Plant Watts	Address Bar Nuclear Plant		Unit Ur	it 1	<u></u>			
P. O. Box	Name c 2000, Spring City,	TN. 37381		7 <u>44</u>	98-00	795	1-001	
	Address TVA MoDIA		Type Code	Repair (	98-00 Organization P abol Stamp	.O. No.,	Job No., etc	
	NUCLEAR PLAN		Authorizat	ion N	0			
?	Address		Expiration	Date				
. Identification of	system 003	-Feedwate	•					
(b) Applicable E	Construction Code Addition of Section XI  Components Repair	Utilized for Repairs	Edition, 4 or Replacer	nents	1989	a. <u>1/A</u> —	112-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	e Case
								ASME
Name of Component	Name of Manufacturer	Manufacturer Serial No	National Board No	Othe	r Identification	Year Built	Repaired. Replaced, or Replacement	Code Stamped (Yes or No)
-PIPE-003-B	Name of Mandacturer	W/A	MA	Ottie	W/A	4/4	REPLACEMENT	,
i-03A-374	N/p	NIA	NIA		M/M	N/A	KOLACOTEN	No
	. 1							
<del></del>			<del> </del>					
	1			-		-		
				+	····			
						<u></u>		
	Chrome of the control	Sure	nal Operations Test Test Test Test Test Test Test Tes	emp -3- may nclud	essure 🗶 *	°F x <i>Orbe</i> ovided	K.Uc 4- 2 98 -0158 1 (1) size is 8	-5-99 7Z-000) 3½ in. x
11 in., (	ered and the numbe	TOT SHEETS IS TECOTO		0	113 101111.			<u> </u>
11 in., (	ered and the numbe		0 98			4 -	0.1	<u> </u>

FORM NIS-2 (Back)	10 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
1. Remarks Code CASE N-416-1 Applicable Manufacturers Data Reports to be Attached	TRACKING	# 2202	-4920
		· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·		
CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and this ${\it Repla}$	CEMENT	conforms	to the
rules of the ASME Code, Section XI.	r replacement		
Type Code Symbol Stamp		· 	
Certificate of Authorization No.			
Signed / Owner or Owner's Designee Title	5 APRIL	1!	9 44
CERTIFICATE OF INSERVICE INSPECTION			
I, the undersigned, holding a valid commission issued by the National Board (			essel
Inspectors and the State or Province of and employed by			
of Hartferd CT have inspected the comp			
Owner's Report during the period 11-17-98 to 45-99			
of my knowledge and belief, the Owner has performed examinations and take		neasures d	lescribed
in this Owner's Report in accordance with the requirements of the ASME Cod			
By signing this certificate neither the inspector nor his employer makes any w	-		
concerning the examinations and corrective measures described in this Owner.			
the inspector nor his employer shall be liable in any manner for any personal	injury or prope	erty damag	e or a
loss of any kind arising from or connected with this inspection.			
			t .
Start Commissions TN2533			
Mispector's Signature National Board, Stat	e, Province, a	nd Endors	ements
Date			•

ロタクロ

	101
1	
	100/
L	i
4	7

		IER'S REPORT FOR by the Provisions of				<b>S</b>	n libi		
1. Owner TENN	ESSEE VALLEY AL	JTHORITY	Date	4-4-99					
400 W. S	Name Summit Hill Drive, K	noxville, TN	Sheet	/ of	/				
2. Plant Watts	Address Bar Nuclear Plant		Unit U	nit 1	<u> </u>				
P. O. Bo	Name x 2000, Spring City,	TN, 37381	WO# 98-007954-002 Repair Organization P O. No., Lob No., etc.						
3. Work Performe	Address d by TVA MEC	H MCDS	Type Cod	Repair Organization e Symbol Starr	P O. No.	, _ob No., etc.			
WATTS F	BAR NUCLEAR	Name  PLANT	Authorizat	tion No	ر لد	FE A	.4.99		
	Address		Expiration	Date		- 12-1 Y	* 2/		
4. Identification of	system 003	- Feedwate				<del> </del>			
(b) Applicable 8	Edition of Section XI	45ME III 19 71 Utilized for Repairs of red or Replaced and	or Replacer	ments 1989	-	<u> 44.1</u> Co	de Case		
Name of Component	Name of Manufacturer	Manufacturer Serial No	National Board No.	Other Identification	Year on Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)		
1-PIPE-003-B	N/A	NONE	NONE	N/A	May a	REALECTIC	7 NO		
						·			
		7							
7. Description of \	Nork Replace	existing 6"	\$ Carb	on Steel P	iping.	with			
8. Tests Conducte	CAROME / ed: Hydrostatic ** P	Preumatic 3 Nomin	al Operation	a Proceura M	- 0				
A I CONTENT DO	Other : Pres	neumatic i Nomin sure <u>118508</u> ps -3-905 00#9	Test To	emp	₩ 6 \$ · 4 _ °F	1260			
NOTE: Supplem	nental sheets in form	of lists, sketches, or	<b>であっつ/58</b> * : drawings n	مر موهم مرار nav be used in	<b>〜〜 そ</b> /へ rovided	<b>5/97</b> (1) Size is 8	1∕3 in ∨		
11 in., (2	<ol><li>information in item</li></ol>	ns 1 through 6 on this of sheets is recorded	report is in	cluded on each	sheet,	and (3) eac	h sheet		

• .

...

FORM NIS-2 (Back)	
9. Remarks CODE. C.AGE N-416-1 TRACKING # RR.02-	5120
Applicable Manufacturers data Reports to be Attached	77
	·····
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this REINLACEMENT conform repair or replacement	is to the
rules of the ASME Code, Section XI.	
Type Code Symbol Stamp	
Certificate of Authorization No.	
Signed Signed Owner's Designee, Title Date 4 - 4	19 <i>99</i>
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 and employed by	
of Hulfford, CT have inspected the components described in this Owner's Report during the period 11-17-98 to 45-99 and state that	s
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 i	1
concerning the examinations and corrective measures described in this Owner's Report. Furthermo	1
the inspector nor his employer shall be liable in any manner for any personal injury or property dama	age or a
loss of any kind arising from or connected with this inspection.	
Inspector's Signature Commissions 7/2533  National Board, State, Province, and Endor	saments
Date 4-5 19 99	.·
13//	

# 99 00 189 1 0 00 4/5/99 98 00 7954 003 PAGE 107 OF 110

Owner TENNESSEE VALLEY AUTHORITY			Date _4	1/5/99	·····		
400 W. St	name Immit Hill Drive, Kr	noxville, TN	Sheet	1 of 2			
Plant Watts 8	Address Bar Nuclear Plant		Unit Un	nit 1			
P. O. Box	Name 2000, Spring City,	TN, 37381	W	0# 98-00 Repair Organization P	7954	1-003	
Work Performed	by TVA Ma	DIFICATIONS	Type Code	Repair Organization P Symbol Stamp	O. No., .	Job No., etc.	
WEN	<i>Q</i> N	ame	Authorizat	ion No		/	
. Identification of	Address	- Feedwater	Expiration	Date	/	<u> </u>	
	onstruction Code	45ME III 19 71 Utilized for Repairs of	Edition, 19		4	AISC T	de Case
. Identification of	Components Repai	red or Replaced and	Replaceme	ent Components	<del></del>	PIPE SUI	phoris
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	1 '
-PIPE-003-B	N/A	NONE	NONE	N/A	Add.	<del>OSY XEMEH</del>	T NO
17A400-11-34	N/A	NONE	NONE	DCA-MI9875-06	- Kidan	REPAIR	NO
-0/A-339	N/A	NONE	NONE	DCA-KOGOII- 27	W.	DEPLACENCE	y No
<i>C</i>							
7. Description of \	Nork Replace Chrome Chrome Hydrostatic	existing 6" Moly . Cut Sul Mors . Pneumatic = Nomin	A Cark	On Steel Po AND REINST	iping busi	with	Lavi 7
<ol><li>Tests Conducte</li></ol>					.°F 000)		

DACE 1740E

	NIS-Z PG Z OF Z
FORM	NIS-2 (Back)
9. Remarks <u>CODE CASE N-416-1</u>	TANCHIE # 28.02-52 Legipes
дорисарів майоласто	rens cara Reports to be Attached
CERTIFICAT	TE OF COMPLIANCE
We certify that the statements made in the report :	ire correct and this Renacement conforms to the
	repair or replacement
rules of the ASME Code, Section XI.	
1/	
Type Code Symbol Stamp	
Certificate of Authorization No. 4	
Signed M. Woodel CONST. EN	162 Date 4/5 19 99
Owner or Owner's Designee, T	
CERTIFICATE OF	INSERVICE INSPECTION
· · · · · · · · · · · · · · · · · · ·	ued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of	
of Harthord, Cl	have inspected the components described in this
Owner's Report during the period	to $4-5-99$ and state that to the bes
of my knowledge and belief, the Owner has perfor	med examinations and taken corrective measures described
in this Owner's Report in accordance with the requ	irements 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 meas	ures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in an	y manner for any personal injury or property damage or a
loss of any kind arising from or connected with this	s inspection.
	T-/2/22
Mispector's Signature Commiss	National Board, State, Province, and Endorsements
	Hational Board, State, Frovince, and Engoisements
Date <u>4-5</u> 19 <u>99</u>	

1. Owner TEN	NESSEE VALLEY A	UTHORITY	Date	1-22-9	a		
400 W.	Summit Hill Onve,	Knoxville, TN	Sheet	of	7		
2. Plant Watts	Address Bar Nuclear Plant		Unit (	Unit 1			
P. O. 80	Name 0x 2000, Spring City	, TN, 37381	-		1111	71	
	d by Mech Mai		Type Co	97-) Receir Crganization de Symbol Starr	7.0. N	<u>/6 −0 0</u> a., Jaa Na., etc	)
Po R	OX 2000	Name -		•	ip		
7.50, 0	Address		Authoriza			pik 10	49
. Identification of	system _CUCS	•	Expiratio	n Date	<del></del>	/	
		Utilized for Repairs					
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year	1	ASME Code Stampe (Yes o
ent Exchanger	ATLAS maracheria	3151	2529	147×62-0121	1975-		
studs							
A 453 GR660	NOVA	NA	NA	HT: NO. 523914	99	Replacemen	No
אדענ	CARDINAL	NA	NA	HT. NO 8869 139	94	Replace ment	NO
JUTS	NOVA	NA	NX	HT. NO 44419	99	Replace-	No
NUT	NOVA	NA	NA	35677029	98	Replace- ment	NO
Description of W	lork Replace Exis	Ting Heat Exchange	ger Head	Flange Batt	-57u d	S S DU UTS	
Suppleme	l: Hydrostatic	neumatic  Nominature  Nominature  NOP ps 22.30 of lists, sketches, or s 1 through 6 on this of sheets is recorded	al Operating i Test Te	Pressure & mp NoT 557	F		√in x

...

NO 40

126 OF

FORM NIS-2 (Back)	villade
9. Remarks RR TRACKING # RR-02-59 Ill 1/22/49	and the second
Toda Napolis io de Albacied	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this <b>Replacement</b> conforms to repair or replacement	the
rules of the ASME Code, Section XI.	
Type Code Symbol Stamp (J) A	
Certificate of Authorization No.	
Gwner or Gwner's Designee, Title Date 4/30 19	95
	·
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessi	el
Inspectors and the State or Province of <u>Tennessee</u> and employed by <u>HSB I FI Co</u>	_
nave inspected the components described in this	
Owner's Report during the period $\frac{1/22/39}{}$ to $\frac{5/13/39}{}$ and state that to the	best
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described as a second seco	ribed
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 implie	d.
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, ne	ither
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.	
Inspector's Signature Commissions TN 2534 T "N" A"  National Board, State, Province, and Endorseme	i
Inspector's Signature National Board, State, Province, and Endorseme	nts
ite <u>5/13</u> 19_ <del>77</del>	
· · · · · · · · · · · · · · · · · · ·	

181
ピ
PLC1
ひくり

Owner TENNESSEE VALLEY AUTHORITY			Date (	38/35/90	3 <u> </u>		
400 W. Si	Name ummit Hill Drive, Kr	loxville, TN	Sheet	of			
Plant Watts 6	Address Bar Nuclear Plant		Unit Un	it 1			
P. O. Box	Name 2000, Spring City,	TN, 37381	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	97-001	129-01	a	
Work Performed	Address by WATTS BAR	LUCLEAR PLANT	R	epair Organiza Symbol St	110n 2 O. No.,	Job No., etc.	
D 30x 3000	Dering Ciry TN. 37		Authorizati	an No		NA	
	Address		Expiration	Date		NA	
Identification of	systemcu7 ( s	-	olive WAR	ee System	~ <u>`</u>		
(b) Applicable 5	dition of Section XI	eet. 四,Div. <u>1</u> 19 77 Utilized for Repairs of red or Replaced and	or Replacen	nents 19	989	mez1971C00	ie Case
ik Name of Component	Name of Manufacturer	Manufacturer Senal No	National Board No	Cther Identific	Year	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
WHE CHICK YALVE	NEWED ! MOTE IL CL	0-14735-02	NIA	1 CHY 117 55	10C-A 81		YES
Disc	,,	,,	7,	,,	81	Replaced	N
							1
						<u> </u>	!
		10.					
							1
							<u> </u>
7. Description of	Work Replace	Disc				<u> </u>	
	ed: Hydrostatic 🗀	Pneumatic : Nomii ssure <u>NOP</u> p	nal Operatir osi Test T	ng Pressure emp <b></b> _ <b>_</b>	00 °F	VT-2 ELAN	÷

.:.

# 97001929012

Carlotte Committee	FORM NIS-2 (Back)
9. Remarks	ADDICADIS MINURICIUSES CINA REDORS 10 DE AMBIENEO
TRACKING #	RR-02-61 28C2/17
	CERTIFICATE OF COMPLIANCE
Me contifu that the statements m	nade in the report are correct and this <u>Replacement</u> conforms to the
	repair or replacement
rules of the ASME Code, Section	א הנXI.
Type Code Symbol Stamp	None
Certificate of Authorization No.	NA
Signed Holling	Mich Engr Date 3/22 19 99
	CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a val	lid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State or Prov	vince of TN and employed by HSAI+I Co.
of Hartford CT	have inspected the components described in this
Owner's Report during the peno	and state that to the best of $\frac{2-3-99}{2}$ 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 accord	dance with the requirements of the ASME Code, Section XI.
By signing this certificate neithe	er the inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations an	nd corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer s	shall be liable in any manner for any personal injury or property damage or a
loss of any kind ansing from or	connected with this inspection.
State	Commissions TN2533
Inspector's Signature	National Board, State, Province, and Endorsements
Date	<u>99</u>

AGE 1278 OF 187

Name and Address of N Certificate Holders

(	Watts Bar Nuclear Pla Name and address		•		
p or ValveY	alva Nor	minal Inlet Size	nchi Su	thet Size	-:
(a) Model No., (b) N	Gertificate Holder's (c) Cana	•			
Series No.	Serial Registra	ation (d) Orawing		to Nath	· 5 · 4
or Type	No. No.	No.	(e) Class	Bd. No.	á.
2" Swing	1-14735-02 N/	/A 14735-02	2	N/A	198
Check Valve	thru	Rev. 1			
	8-14735-02		<b>86072</b>	<del> </del>	$\leftarrow$
<del></del>			2000/ 2	4,000	
		Contract N	6 827	840-2	
	•		Nia		
		R.D. or 5.1	81-30	1///	<del>-</del>
<del></del>	·	209 No.	1 - 12	(4)	=+
gn Canditlane1		to for which appropriate was		. <u> </u>	
d Working Pressure _	50 per 130  (Foregues) (Ferror per st 100°F.	on to for which equipment was selected by the		FILMED FROM	BEST
d Working Pressure _	50 per 130  (Foregues) (Ferror per st 100°F.	to for which appropriate was			BEST
d Working Pressure _	50 per 130  (Foregues) (Ferror per st 100°F.	"F or Valve	Pressure Class	FILMED FROM	8EST 1907
d Working Pressure _ soure Retaining Places	Street description of service  60 per 130  (Femore 475 per et 100°F.	"F or Valve	Pressure Class	FILMED FROM AVAILABLE	8EST 1907
d Working Pressure _ soure Retaining Places Mark No. Cestings	Street description of service  60 per 130  (Femore 475 per et 100°F.	F or Valve	Pressure Class	FILMED FROM AVAILABLE O	BEST COPY
d Working Pressure _ soure Retaining Placed Mark Na.	Shraf description of services  60 pts 130 (Persource)	F or Valve  Manufa	Pressure Class	FILMED FROM AVAILABLE O	BEST COPY
d Working Pressure _ seure Retaining Places Mark No. Cestings Body	Shraf description of services  60 pts 130 (Persource)	F or Valve	Pressure Class	FILMED FROM AVAILABLE O	BEST COPY
d Working Pressure _ soure Retaining Places Mark No. Castings Body	Straf description of service  50 per 130  (Yendure) (Yeng)  475 per et 100°F.  Material Spec. Fig.	F or Valve  Manufa	Pressure Class	FILMED FROM AVAILABLE O	8EST COPY 5-02
Mark No.  Cestings  Body  Ht. # 5576L	Shred description of service  50 per 130  (Prendured 475 per et 100°F.  Material Spec. Pio.	F or Valve  Manufi  Lebangn S	Pressure Class	S/H 1-1471 S/H 1-1471 S/H 1-1471	8EST 5-02 5-02
Mark No.  Castings  Body  Ht. # 5576L	Straf description of service  50 per 130  (Yendure) (Yeng)  475 per et 100°F.  Material Spec. Fig.	For Valve  Manufa  Lebangn S  Ouaker Al	Pressure Class	FILMED FROM AVAILABLE C Remarks 5/H 1-1473 5/H 8-1473	8EST 5-02 5-02
Mark No.  Castings  Body  Ht. # 5576L	Straf description of service  50 per 130  (Yendure) (Yeng)  475 per et 100°F.  Material Spec. Fig.	For Valve  Manufa  Lebangn S  Ouaker Al	Pressure Class	S/H 1-1471 S/H 1-1471 S/H 1-1471	8EST 5-02 5-02
Mark No.  Castings  Body  Ht. # 5576L	Straf description of service  50 per 130  (Yendure) (Yeng)  475 per et 100°F.  Material Spec. Fig.	For Valve  Manufa  Lebangn S  Ouaker Al	Pressure Class	S/H 1-1471 S/H 1-1471 S/H 1-1471	8EST 5-02 5-02
Mark No.  Castings  Body  Ht. # 5576L	Straf description of service  50 per 130  (Yendure) (Yeng)  475 per et 100°F.  Material Spec. Fig.	For Valve  Manufa  Lebangn S  Ouaker Al	Pressure Class	S/H 1-1471 S/H 1-1471 S/H 1-1471	8EST 5-02 5-02
Mark No.  Castings  Body  Ht. # 5576L  Disc  Ht. # X2937	Straf description of service  50 per 130  (Yendure) (Yeng)  475 per et 100°F.  Material Spec. Fig.	For Valve  Manufa  Lebangn S  Ouaker Al	Pressure Class	S/H 1-1471 S/H 1-1471 S/H 1-1471	8EST 5-02 5-02
Mark No.  Castings  Body  Ht. # 5576L  Disc  Ht. # X2937	Straf description of service  50 per 130  (Yendure) (Yeng)  475 per et 100°F.  Material Spec. Fig.	For Valve  Manufa  Lebangn S  Ouaker Al	Pressure Class	S/H 1-1471 S/H 1-1471 S/H 1-1471	8EST 5-02 5-02
Mark No.  Castings  Body  Ht. # 5576L  Disc  Ht. # X2937	Straf description of service  50 per 130  (Yendure) (Yeng)  475 per et 100°F.  Material Spec. Fig.	For Valve  Manufa  Lebangn S  Ouaker Al	Pressure Class	S/H 1-1471 S/H 1-1471 S/H 1-1471	8EST 5-02 5-02
Mark No.  Castings  Body  Ht. # 5576L  Disc  Ht. # X2937	Straf description of service  50 per 130  (Yendure) (Yeng)  475 per et 100°F.  Material Spec. Fig.	For Valve  Manufa  Lebangn S  Ouaker Al	Pressure Class	S/N 1-1473	8EST 5-02 5-02
Mark No.  Castings  Body  Ht. # 5576L  Disc  Ht. # X2937	Straf description of service  50 per 130  (Yendure) (Yeng)  475 per et 100°F.  Material Spec. Fig.	For Valve  Manufa  Lebangn S  Ouaker Al	Pressure Class	S/N 1-1473	8EST 5-02 5-02

2 12 F 13 !10/77} This form (EQQO27) may be obtained from the Orcar Dept., ASNE, 345 C

P.013

OWC.

<sup>(1)</sup> For manually operated valves noly.

Supplemental sheets in form of lists, skirtches or drawings may be used provided (1) size is a construction of included on each shuet, and (3) each sheet is numbered and number of sacets (1999-27873) \* Supplemental sheets in form of lists, skillches or drawings may be used provided (1) size is 3.127 + 117 (2) information in

AGE 1270 OF 187

Structed this pump, or valve, in accordance with the ASMS Code, Section III.

By signing this certificate, neither the Inspector not his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector not his employer shall be I able in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspector.

Date Charges 1931

Curnmissions Fig. 1990

Instit 8a. State Five an implied.

19.21 and state th 10% abust of my anowledge and ballef, the N Certificate Holder has con-

or \_nactions CI

10)
10 AC
TAGE /

	FORM NIS-2 OWN As Required	NER'S REPORT FOR by the Provisions of	REPAIRS the ASME	OR REF	PLACEM ction XI	ENTS		
1. Owner TENN	ESSEE VALLEY AL	JTHORITY	Date	3/23	/99			
400 W. S	Name Summit Hill Drive, Kı	noxville, TN	Sheet	l of	2			
2. Plant Watts	Address Bar Nuclear Plant		Unit Ur	nit 1				
P. O. Box	x 2000, Spring City,	TN, 37381	HORK	ORDER	2 # C	18.0	02Z18-0	201
3. Work Performed	by TVA Mo	DIFICATIONS	Type Code	Repair Orga	nization P	O No	Job No., etc.	
MBNP		Name	Authorizat	ion No			N/A	
A Idantification of	Address		Expiration	Date			4/4	
4. Identification of	_068_	REACTOR CO.	OLANT	SYST	EM			
(b) Applicable E		Utilized for Repairs of red or Replaced and		nents	Addenda 1989 conents	a/ 	<u>vja</u> Cod	le Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Ider		Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
68-415	NONE	HONE	NOHE	1-68-4 SUTS. IT		UN Kanuli	REPLANEIR	110
			NONE	July. 11	WELL GO	10001	KANCINI	И0
						-		
7. Description of V	Vork REPLACE	D (4) BOLTS	AND	TUN(8)	5 01	4 PI	PE CLA	MP,
8. Tests Conducted	d: Hydrostatic 🗆 P	Pneumatic Nomin	al O <del>peratin</del> si Test Te	g Pressur	re 🗆	'F		
NOTE: Supplement 11 in., (2)	ental sheets in form ) information in item	of lists, sketches, or it through 6 on this rof sheets is recorded	drawings n	nay be us	sed, pro	vided	(1) size is 8 and (3) eac	½ in. x h sheet

i:

Pq. 2 OF 2
FORM NIS-2 (Back)
9. Remarks
Applicable Manufacturer's Data Reports to be Attached  TRACKING # RR-02 - 8626 3/1/99
1 RACKING " RR-02 - 86222 3/11/99
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this REPLICEMENT conforms to the
repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp
Certificate of Authorization No.
Signed The Raw Constra Euco Date 3 73 10 00
Signed High Road, Constr. FNGR, Date 3-23 19 99
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 ca
of HarT Ford cT. have inspected the components described in this
Owner's Report during the period $3/11/77$ to $3/24/79$ 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. Camigh Commissions TN 2534 I National Board, State, Province, and Endorsements
Inspector's Signature National Board, State, Province, and Endorsements
Date 3/24 19 99

	187
	Č II
	28/
1	TOY A

1. Owner TEN	NESSEE VALLEY A	UTHORITY	Date	3-9	-99	)	
400 W.	Summit Hill Drive, k	Cnoxville, TN	Sheet	of .	• (		
2. Plant Wat	Address ts Bar Nuclear Plant		- · · · -	 Jnit 1			
P. O. 8	Name lox 2000, Spring City	TN, 37381	_				
	ed by Mers MainT		Tues Con	78-00244/- Repair Ciganization is te Symbol Stamp	00 _	3 1., Job No., etc.	
P.o. Box Z	ngo chu cy	Vame '-			<u>u</u>	IA	
TW. DUX CA	Address	IN 37381	Authoriza		4		
I. Identification of	of system AA	cdaa :	Expiration	n Date	<u> </u>		
	//intA	Steam					
(b) Applicable	Construction Code &	250A III 197/	Edition,	/173 Addenda	a	N/A CO	de Case
	Edition of Section XI					·/	
. Identification of	f Components Repai	red or Replaced and	Replacem	ent Components			
							ASME
			National			Repaired.	Code Stamped
TEAM GENERATE		Manufacturer Senal No.	Board No.	Other Identification	Year Buit	Replaced, or Replacement	(Yes or No)
econday	westinghoure	1594	W10189	1-56EN -068- 564		Rpair	NO
ithwall cover							
Steph Generator		1 - 0	W/02899	1-5GEN. 168-		A SHE WAY	<del>_</del>
Sover	Nesting house	1594	782	SGY	75	replace	No
(G Second. Mw							
OUER STUDS	WESTING House	None	NA	1-5GFN-068- 5G4		Reflace	100
NUTS	Westing house	None	NA	1-5GEN-069		Relace	امر
			134.	-564	!	Vicin-0	
Description of \	Nork Relail Secon	day Menyiay	Coupe L	Machine	1,41-		
					مري	Der INT.	3.014
Tests Conducte	d: Hydrostatic 🗆 Pr	eumatic 🗆 Nomina	I Operating	Pressure 🗗	/-7	TRI-3-903	
	Other (1) Pressi	ire <u>NOA</u> psi	Test Te	mp <u>1067</u> °F		J /-3	
							,
E: Supplem	ental sheets in form of information in items ered and the number of	of lists, sketches, or o	4aa		ded /	1) ciza ia se:	

FORM	NIS-2 (Back)
9. Remarks	
TRACKING # RR-02-87 286/	A for
PEPAIREN 1 5/4 CINER, Depl	aced one Cover And Studs
CERTIFICATI	
VA conif up un	OF COMPLIANCE REAVA
and 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	
Cartificate of Authorization No.	
Signed _ Mech	Egn. Date 4/11 19 99
Cwner or Cwner's Designee, Title	13 12
	ISERVICE INSPECTION
I, the undersigned, holding a valid commission issued	by the National Board of Boiler and Pressure Vessel
A STATE OF TOWNING OF TENDERSEE	_ and employed by HSB TETIC.
	lua iana and dist
31110	to 3/26/29
The same of the sa	l examinations and taken as—
and the requirement	lents of the ASME Codo, Samt 1999
concerning the examinations and correction makes	employer makes any warranty, expressed or implied.
he inspector nor his employer shall be liable in care	described in this Cwner's Report. Furthermore, neither
oss of any kind arising from or connected with this ins	anner for any personal injury or property damage or a
some steel with this his	pection.
Bruce M Emile	
Beuce M Earnigh Commissions Inspector's Signature	National Board State See T N "A"
ate	National Board, State, Province, and Endorsements
19	
·	

FORM 1 - COVER SHEET **QA RECORD** 

PEG PKG NO: 1999-42380

**PAGE 1 OF 12** 

RIMS/EDMS NO: T49 990329 810	REV NO: 0
SUPERSEDED RIMS/EDMS NO:	QA LEVEL: 1
TRACKING NO: 199900042380	
REASON FOR REVISION:	
INITIAL ISSUE	
SUBJECT:	, , , , , , , , , , , , , , , , , , , ,
U2-U1 TRANSFER OF SECONDARY MANWAY COVER	
REFERENCE:	
APPENDIX A - REQUEST FOR REMOVAL - TRK. NC 2-068-041, ER#	03-99-011
PREPARED BY:	DATE:
PEO ENGINEER: BRYAN, DARYL	3-29-99
REVIEWED BY: INDEPENDENT REVIEWER: MCCORD, LARRY LAND MICE.	DATE: 3-71-99
PROCUREMENT ENGINEERING ZEAD: BENNINGHOFF, H. N.	DATE: 3-29.99

DISTRIBUTION
--------------

RIMS/EDMS
MATERIAL & PROCUREMENT

[ ] NUCLEAR PROPEREMENT
[ ] NUCLEAR STORES

Secondary Manuar Cover For 5/4 NO. 4.

MAR-29-1999 10:04

OWC

P.002

## FORM 2 - TECHNICAL EVALUATION

PEG PKG NO: 1999-42380 PAGE 2 OF 12

	NOX.
	(P) P CONTROL OF THE
If the component is uniquely addressed in ME/NE output documents (i component, complete HOST EQUIPMENT/COMPONENT DATA	s Dearge Change Package, G-spec, EMS Q-List) or is a whole
HOST EQUIPMENT/COMPONENT (WORST	HOST EQUIPMENT/COMPONENT THE NO:
CASE) UNID NO:	CAN276V
WBN-1-SGEN-068-SG4 -	
HOST EQUIPMENT/COMPONENT (WORST C	ASE DESCRIPTION:
STEAM GENERATOR 4	
HOST SAFETY CLASSIFICATION:	
[X] SAFETY RELATED   ] NON-QUAI	ITY RELATED [ ] QUALITY RELATED
[X] SEISMIC I [ ] SEISMIC I(	
[ ] CLASS 1E [X] ASME SEC	III CLASS: I
[ ] 10 CFR 50.49 EQ BINDER NO: N/A	REV: N/A
BASIS FOR SAFETY FUNCTION CLASSIFICA	TION:
EMPAC (MEL) VERIFIED	
REFERENCES: (TVA dwgs, Q-list, system criteria, etc)	
N/A	
	TATA
ITEM(S) DESCRIPTION:	
SECONDARY MANWAY COVER	
ITEM DESIGN FUNCTION(S): (Including Know	m Sainty Function)
N/A	

FORM 2A - TECHNICAL EVALUATION

PE : PKG NO: 1999-42380

PAGE 3 OF 12

The state of the s
ITEM CLASSIFICATION BASED ON FUNCTION:
[X] SAFETY RELATED PROVIDE BASIS IF PROCUE NG AS COMMERCIAL GRADE
NOT SAFETY RELATED PROVIDE BASIS ONLY IF HOST IS SR
POSTULATED FAILURE MODE(s) OF ITEM:
N/A
EFFECTS OF POSTULATED FAILURE(s) ON COMPONENT SAFETY FUNCTIONS:
N/A
CONCLUSION AND BASIS FOR ITEM CLASSIFICATION:
N/A
REFERENCES:
N/A
ITEM SEISMIC REQUIREMENT: [X] SEISM C1 [] SEISMIC I(L) [] N/A
REMARKS:
LIKE FOR LIKE REPLACEMENT
TO THE PROPERTY OF THE PROPERT
ITEM IS SAFETY RELATED, AND
[X] WILL BE PROCURED AS SAFETY RELATE: - PROCURE ITEM OA LEVEL 1
WILL BE PROCURED AS COMMERCIAL GPADE - PROCURE ITEM OA LEVEL 2
OR
ITEM IS NOT SAFETY RELATED, AND
[ ] IS PART OF A SAFETY RELATED COMPO: INT OR IS A QUALITY RELATED ITEM
WITH UNIQUE ENGINEERING OR REGUL. ORY REQUIREMENTS OR IS
ADDRESSED IN SITE PROCEDURES OR NEW JUTPUT DOCUMENTS AS QAILEVEL 3 -
PROCURE ITEM OA LEVEL 3
DOES NOT MEET QA LEVEL 3 REQUIREMENTS - PROCURE AS QA LEVEL 0

·				<u></u>		*
-29-1999 10:15	TUA WBN ( As required by		ons of the Admin		365 3233	P.07
1. Manufactured by We	stinghouse El	ectric Cor	poration, Tar	apa Division	Tampa,	M.
	Cennessee Vall	(N)	me and scarves of M	Anusaturari An Somethia Ci	i Þæ	
2. Manufactured for	GUDESIGE ASTT	ay Author:	TAME BAR -AMPRE OF	Purchasery	LLY	
3. Type Vertical Ki	nd <u>Steam Gan V</u>	ensul No. (Micu	617 ) (Stata 4	Rate Nei) Hav'l Be	L No. WIO75	25 Yr. Built 1975
3a. Applicable ASME Cod	e: Section III, Editi	ion 1971	Addends date1		·	Case No. <u>1493-1</u> 1355
tems 4-8 incl. to be comp		l vessels, jack	ers of juncated ve	sels, or shells of	hest exchas	et s.
4. Shall: Material GR A (Mine & Spec	73 	Nominal Thickness ! speculos	In Allowanes Of	Sin. Dia	a.Léngth ঽ	ti. * la
5. Seamer Long Weld-		• •	LT. Comp			100
.GirtyWeld=I	<u>761-Rutti.T.i :</u> 1 <b>6-5</b> 33 -	Yes	R.T. Comp	leto No. o	l Courses_	<u> </u>
6. Hands (a) Mararial VI	T.S	90000	b) Mate	T.S. ,		
Logation	. Crown ' 'hickness Andius	Kauekie Bii	puleal Central Apple Apple	Mamiaphorical .		. Side to Frenc, (Convex or Concerve
(a) <u>Top</u>	3,82		<u> </u>	- <del> </del>		conceve
Il remevable, boirs un  7. Assy Closum *G11 Girth Weld  8. Design Pressure*115	cth Weld-Dbl-B	Dee	X.R. comple t, par, acc is best sive veight 30	ta dimensione, descri Pagunatic folib Hydrostatic	or sected.	•
(cems 9 and 10 to be comp	<del> </del>	<b></b>				
9. Tube Sheetet Stations	ev. Material SA-5	DB CL2 DIA	125 / in. T	hickness ZL-03	n. Attachme	re Sad Lam L. (Velded, Salten)
Fluetin	g. Material (Kind 4)	Spage No.) Dist.	ia. T	hicknessi	a. Asserbage	pr
10. Tubess Material SR-	-163o,p,_750i	n. Thickness.	043 Aches	- Number	4674 Typ	e_U
(Xind &						(Straight or U)
Items 11 to 14 incl. to be	completed for Pr	imery Char	ber -	•		
11. Shell: Maserial (Xled & S	T.S. Min. of fange	Nominal Thickness specified	Lia. Allowance		ln. Le:	ngchftin
12. Seams: Long	Dbl., Single)	(Yes ar No)	R.T.		iency	<del></del> :
Girth <b>Wald</b> —	Dhl_Butte.T.	yes	R.TCO	mplete No.	of Courses	2*
13. Heads: (a) Macerial _	T.S <del>-</del> _	(b) Maseri	al WCC T.S.	70000 (c) Mase	risi	T.s
	Crewn Thickness Redius	Kamekie III	lation Contact	<b>Hemispherical</b>	Pint Diameter	Side to Press. (Convex or Concert
(a) Top, bottom, ends (b) Channai (c) Floating	5;09			62.81		concave
If removable, bolts us	sed (a) 1,3pec. No., T.S., Size,	Number) Dec	p weight	Other fa	Stening(Describe	er attien (keren)
14. Design pressure <sup>2</sup> 24	85 pai at 650		try Impac 20		_ (	st :ssure3106. ps

1 If Postwold Hose-Treated
2 List other internal or external pressures with sometisent temporature when applicable.

1999-42380 C
Pye G of 12

See Dwg. 1101J50

148

	a below to be complete	d for all vocas	is where sppi	loable,				
15.	Safety Valve Outlets:	Number	Size_		i.ogstica			
	Nozalest Purpose (Inter.		I(a, or Elza	Type	थ <b>ालांब</b>	· Thismess	Reinfertement Material	How Absoluted
	Prim. Inlet Prim. Outlet	<u> 1 _ 31</u>	" I.D.	(Weld)	(FA-216)	3.00"	(SA-216)	(Integra
	Steam Outlat		" I.D.	(Weld)	(53-508)	1.31"	Sesel	Welded
	Feedwater	1 14	" I.D.	(End )	(C.2)	0,76"	Steel	Welded
7.	Inspection Macholes,		Size_1611	Location.	(2) Chan		Ipper Shell	44
	Openinger Handbeles, Instrumentation		Size 611 Size 211	Location.	9:116 Bar	<u>rel Portio</u> rel Portio		
	TITE CEASING ACTOR	L // 4	. 1	_ Location_			T OF LOWRE SI	
	Supports: Skin No. Four Main Siffs Remarks: This No. certificate of	Form is	Mat integ	sed off	the child	ਰਵਾਂ? horized co		under
	and subsequent					ion off for		icams on
	certificate of		embly inst	rection	ba ow. A	ll other M	ir, is specif	1ed on
	Manufacturers'						See Supplem	nt:41 6 2
	or field instal	lation 'or					nines	
	Design Information on til	Westin			OF D <b>ESIGN</b>	n. Tamos D	ivicion. Tamo	a. FC.
7	Atreas analysis report on	Ne a Westi	nghouse E.	lectric	Corporation	on Tampa	dvision. Tem	712.
	Detiva specifications or	runed by Nuc	lear Kner	TY Syste	70.5	Prof. Eng. State	TERRET	13335-E
,	direce analysis report se	united at MGB	tinghouse	- Тапра	Plant	Prof. Eng. Statu	TIAL Beg. No.	18684
7 Dol 3E	Va certify that the state of the ASALL Ande, Sec	cien III.		house I	Lea Corp	ualear vassel c	onforms to the rule:	of construc-
•	.140	• •	June 16.	(Manufacti 1978	•	Contract	A	N-1154
	ilflesse of sutherisation	Tabitos	_ 3424 441	<u> </u>		Cetatitiente of	Luchorizacion No.	N-2457
		<b>35 -4 6</b> -			OP INSPECT	MOE	<b>.</b> •	1
٧	ESSEL MADE BY		use Elect:			M	Tampa,	
•	Province of Chargelai	Sector and ea	aplayed paktor	Large Race	Maria 10	LETTE GOL	the Chronia In	Comme C
h	eve inspected the pronsure	vessel deserth	ed in this Menui	seturor's Da	ta Report on	BETTER	19	75 <sup>-</sup> , and
	tate that to the best of dede. Acetion III.	•	•			•		•
¢	is and based on piles, es be easer quantiped in this M A sidulal this conficents		eta Report, Fu er a lasa of any	ribermore, ne		ter ner his empis	res chall be liable in	
2								1
3	Cusposion No name of the L	Signature	19 25	Commis	sion. Natio	and Box	ate, Province and Ne	2
2	som.				stone Nation	nes al Box.		2
Z 20	som.	CERT	IFICATE OF	FIELD A	SSENBLY IN	sticasi Board, St.	ate, Province and Ne	or the State
C	the undersigned, helding	CERT	IFICATE OF	FIELD A	SSEMBLY IN	ational Board, its SPECTION and Pressure Ve	nte, Province and Ne	
C P C C C C C C C C C C C C C C C C C C	the undersigned, holding  Province of  Rive compared the statements items  and items	CERT  a velid commi  and emp  mas in this Mar	IFICATE OF	FIELD A	SSEMBLY IN Beam of Batter the 4-scribed p	SPECTION  and Pressure Vettel 2  mailuded to the country of the country property of the country proper	esei Inspectore and/	erred to as
C T V (c T )	the undersigned, heiding a province of the statements items are imported by me and it it is nesertance with the numerical Test of the statements are the statements of the statements are the statements of the st	CERT  to velid commit  and emp  mate in this Man  hat to the best of	IFICATE OF	FIELD A the National a Report with and boiler th describer th describer and boiler th	SSENBLY IN Boom of Pattor the incremental design and the manufactures of the control of the cont	SPECTION  and Pressure Very Very Very Very Very Very Very Ve	etel Inspectors and/ nd state that parts re- refficate of shop impered assembled this pro- thed to a hydrostatic resize Secondar	reced to 45 retion have resure vers- tent and/or ry Side.
C T V (c) T C C C C C C C C C C C C C C C C C C	the undersigned, heiding a Province of the statements items with the statement of the state	CERT  a velid commit  and emp  mate in this Man  hat to the best of  ASME Code, if  neither the in  lanufacturer's D  reporty domage	IFICATE OF seion is seed by sieved by sufacture's Date of my knowledge betten IV. The palls Frims spector nor bia lata Report. Fu	FIELD A the National a Report with and belief th described kiry Side compleyer ma	SSENBLY IN  SSENBLY IN  Boom of Gallor  the described p  the described p  the described p  the described p  the described p  the described p	SPECTION  and Pressure Veget a  mainded in the ce has countrycted a  seted and subjective, expressed or  tor me his emplay	see Inspectors and Ne medicate that parts re- reflecte of shop imported assembled this pro- red assembled this pro- red to a hydrostatic pails Secondar, implied, concerning these shall be	rection have rection have rection have rection year/or ry Side.
C T V (c) T C C C C C C C C C C C C C C C C C C	the undersigned, heiding a Province of the statements it is necessarily the statements in necessarily me and it is necessarily me and it is necessarily me and it is necessarily means this certificate to see it described in this Means it is necessarily means the second of the second	CERT  a valid commi  and any  man in this Man  hat to the best o  ASME Gode, i  neither the Ini  lanufacturer's D	IFICATE OF seion is seed by sieved by sufacture's Date of my knowledge betten IV. The palls Frims spector nor bia lata Report. Fu	FIELD A the National a Report with and belief th described kiry Side compleyer ma	SSENBLY IN SECTION OF Salter the a-scribed person of salter the manufacturer teams was inep- team or negation or connects	stioned Board, its spection and Pressure Ve and Pressure Ve and and subjection of subj	ste, Province and Ne- seel Inspectors and/ nd state that parts re- relificate of shop imap- nd assembled this pro- ried to a hydrostatic pails Secondar, implied, concerning these shall be	retien have retien have retien yeur retien yeur retient ged/or ry Side.

\*\*Stress Report will be on file before time or Field Hydro. Stress Report completed: December 1977.

1999-42380 O Pgc 7 F 12 X P.008 U

	Form N-1 Mamufacturer's Data Report for Nuclear Vessels
	Manufactured by Westinghouse Electric Corporation, Tampa Division, Tampa, Florida Manufactured for Tennessee Valley Authority - Watts Bar #2 - Spring City, TN
3.	Type Vertical Kind Steam Generator Series D Vessel No. 1612 National Board No. W10795 Year Built 1975
₹.9	field change was made to the steam generator under the supervision and control of stinghouse Tampa Division by extension of the Tampa Division Certificate of therization as authorized by the ASME, Jurisdictional Authority of the State of
	Temmessee , the owner Temmessee Valley Authority the Authorized Inspection Agency.
nbl	change consisted of the installation of an auxiliary feedwater nozzle through the per shell of the steam generator and the connecting of internal piping by Weldment. e change was made in accordance with Westinghouse Tampa Division procedure RE-76-13 Rev. 6 2 and installation drawing 1104343 Ctd. 2 . Change design information stress analysis report are on file at Westinghouse Tampa Division, Tampa, Florida
in: of	certify that the statements made in this report are correct and that the design and stallation of the suxiliary feedwater nozzle correctnes to the rules of construction the ASME Code, Section III.
Da	te Sept. 12, 1978 Signed Westinghouse Electric Corp. By R.P. Westinghouse Electric Corp. By R.P. Westinghouse Electric Corp.
Ca:	rtificate of Authorization expires. June 16, 1981

This supplement is signed by the Field Authorized Muclear Inspector indicating acceptance of the field change work with exception of the hydrostatic test and subsequent inspection. Acceptance of the latter items will be indicated by the ANI signature of the Form N-1 Certificate of Field Assembly Inspection.

## CERTIFICATE OF FIELD INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Temposee have inspected the change described in this supplement and state that to the best of my knowledge and belief, the change to this pressure vessel conforms to the rules of construction of the ASME, Section III.

By signing this Certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the alteration described in this supplement. 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.

Date Sept. 12

Commission Inspector C. E. Matcalfe

NB-6260, TN-2196 State or National Board

1999-42380 Pge 8-FJZ

## SUPPLEMENT NO. \_\_\_\_\_

## Form N-1 Manufacturer's Data Report for Nuclear Vessels

1.	Manufactured by West	inghouse Electric Corpc	ration, Tampa	Division, Tampa	, Florida
2. 3.	Manufactured for	Termessee Valley Auti- Kind Steem Generator W10795	Séries	D Vessel No. Year Built	1612 1975
We za an This shall shal	tinghouse Tampa Division as authorized by  Tennessee I the Authorized Inspection of the Authorized Inspection of the Authorized Inspection of the Authorized Inspection of the Authorized Inspection of the Authorized Inspection of the Inspection of the Inspection of the Inspection of the Inspection of the Inspection of the Inspection of the Inspection of Inspection	to the steam generator ion by extension of the the ASME, Jurisdictions, the owner, Tennes ection Agency.  adding a 2.6 inch diamethe upper tube support tolted cover and gasket seel, and gaskets are spinning design information ivision, Tempa, Florida.	Authority of see Valley Author	the State of the opening in the vessel "W" axis A-193 Gr. B7, comel with asbest	f lower Closure overs are tos filler.
ir As Da	stallation of the ins ME Code, Section III. te <u>3/23/79</u> Signe	tements made in this representation openings conformed Westinghouse Elec. Contact of Elec.	20 the rms	s or construction.	M. 01 410
Ç	ting acceptance of the	t is signed by the Field e field change work with Acceptance of the latt Data Report for the com	er items Will	be indicated by	
-	the undersigned, hol	CERTIFICATE OF FIEL	issued by the	National Board	of Boiler
a: ti b	id Pressure Vessel Ins	pectors and/or the Stat I this supplement and st This pressure vessel con	ere that to th	e best of my kn	owledge and
n P	pressed or implied, o	icate, neither the inspectonceming the alteration ector nor his employer sperty damage or a loss of	r described in F:11 ha liable	in sun manner Tring auppremen	for any
Þ	ate <u>March 31.</u> 197	g Signed Inspect	iteally a		60. TV-2196 Or National
				1.0	

1999-42380 12 | Poge 9 F12 |

### FORM 4 - OTHER EVALATIONS

PEG PKG NO: 1999-42380

PACE 4 OF 12

EVALUATION FOR: This form shall not be used to door Doorments.	amous Fem	valency Evaluations that conflict with Design Output
[ ] QA LEVEL CHANGE		10CFR50.49
TIIC DESCRIPTION CHANGE		AFFECTS OF SPECIFICATION CHANGE
[ ] PART NO. CHANGE (ADMIN ONLY)		SHELF LIFE EXTENSION
(X) OTHER: U2-U1 TRANSFER		
PURPOSE: EVALUATE U2 TRACKING # 2-068-041, ER# 0	<b>3-99-</b> 0:1	·
ASSUMPTIONS: NONE		
ANALYSIS: THE SECONDARY MANWAY COVER FOR UZ SUPPLIED BY WESTINGHOUSE ON CONTRAI WESTINGHOUSE HAD AN APPROVED QA PR IT WAS BEFORE THE INCEPTION OF PART 2: DOCUMENTATION AND RECRIVING REPORT TO UI. TRACEABILITY IS MAINTAINED BY LOCATION IS ACCEPTABLE FOR REQUIRED DOES NOT APPLY TO THIS ITEM BECAUSE INO FINDINGS APPLYING TO THIS ITEM ON	OGRAN I. AFTE I' THE I'HE SAN LEVEL T'S ME	←1 WITH THE STEAM GENERATOR.  AT THE TIME OF PROCUREMENT AND  R REVIEWING THE CONTRACT,  OVER IS ACCEPTABLE FOR TRANSFER  OF THE STEAM GENERATOR, U2  C STORAGE FOR THE COVER AND S/L  ALLIC. AN NER SEARCH TURNED UP
CONCLUSION: THE ITEM IS ACCEPTABLE FOR TRANSFER	ro ui	OCATION AS ORIGINALLY PROCURED.

TVAN STD 10.5

TOI

Procurement Engineering Group Manager, MI. 1C-WBN FAX: 365-3233

199900042380

## APPENDIX A REQUEST FOR REMOVAL

FROM:	
SUBJECT: REQUEST FOR INSTALLED UNIT 2 NON-TRANSFERRED COMPONENTS	
The following components are required to support WEN U1 operation. Resear determined that it is in WEN's best interest to utilize WEN Unit 2 items. provide a PEG evaluation of the intended use or acceptable alternatives.	ch has Please
Unit 2 Request Tracking Number: ER 03-99-011 2-068-041	
1. Activity being supported: WO 98-002441-0.3	•
2. Installing WID (s): WO 98-002441-003	•
3. Need Date: 3/28-29/99	
4. Request Unit 2 Component ID's: 2-SGEN-068-SG3 S/N 1612	•
4A. Is requested component/part currently in the active U2 FM Program?	
Yes: No: X Date the last PM was Performed: NR	-
5. Part Names/Numbers/Descriptions: SECONDAF: MANWAY COVER	-
6. Contract Numbers: 5411401	<b>-</b>
7. Affected Unit 1 Component ID's: 1-SGEN-062-SG4	-
8. Description of work: SECONDARY MANWAY COVER FROM LOOP NO. 3	
MANWAY. MANWAY COVER MUST BE FROM LOOF 3	_
8A. Replace parts required to be ordered: Yes: No: X	<u>.</u>
PR No. :	CN-1
MET/D.H.COLLINS/3-28-99/8871  Requesting Org/Name/Date/Ext  Requesting Org/Name/Date/Ext  Requesting Org/Name/Date/Ext	
Original: Procurement Engineering Group  cc: Modifications Superintendent, FAX 3c2-2058	CN-1
Nuclear Engineering Site Controller ADM 1C, Fax 365-388:	CN-1
	ı

\*\*\* REQUIRED FOR RFO2

1999-42380 Page 5 of 12

WO OF



-i'-':

		<b>~</b>	SIVE ARMAT		•		05074
Sind,		•	TAMPA DIVIS			OR	25374
A. J. S.		PART CHES Q					
41-41-41	06-425 N. 00744 m. 0	STATE OF	Steen thought	Toward !	1413	<b>.</b>	
6.5	. <b>25</b>	· Marting		1		1	
	- 0		Status to or		COMP	TETE .	YES NO
of the laderes	CEATION HOL.	Park to the same				;=-·	1
		1-20-20-	<del> </del>		<del> / -</del>	00.	<del></del>
					1	-	. 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					Ţ.	Tp1t -	فادا
Action Hearth		A SECTION AND A			riantion by E ?	history, in t	n Augus Complians Indian
		ANST PRO	i. 4 il inipotee are Eav	<b>verved the</b> su	Althou or weened	ing What	All am castleshi
		12.46	ANOTE CHECKLE	rr •	<del></del>		
			<b>₽</b> ~ 1/10 ·	_			
	LINYS YEAR			-terreting Union			
Mr. Piles god a							
122			:	Process Theorem To	-4		
							***
Venet		100 S	<u> </u>				
Omeretanal .				Cisenlinens			
	بنا څخه د ا	, i dici		restagling			
		7.11					
M reconst Or	elification Table	in topical distance	<b>(a</b> ):	iode form	MAN SEC	101	
A - me s		12-13					· · · · · · · · · · · · · · · · · · ·
-	-	10 10 Hay 40		A September 1	A010015 A07 (34	A # 521576 431	
	- Designation				· · · · · · · · · · · · · · · · · · ·	<del></del>	
	n Nagarit And					. مل	
4 9 4	V. 100 100	A 10 10 10 10 10 10 10 10 10 10 10 10 10		244 <b>602174</b>	عملهن	_	
	;	"对种情况"		100000	<del></del>	·	
		77.77					
	·						
•		44 (5) - 1		9900042.	78G	910	0015218
·		11.72.73		1.0	12	P	( Ja Vigi
Secretary No. 100			paratusi regularenzas		(9-94 do m) and	<u> </u>	inter chara. O
	tory D.					<del></del>	
mentaple.				ne <b>Ga lingt</b> i			mare 19/13/75
το.α	115	2 AAR STTAW 32	NOHONI LEZM	#1 <b>C</b> C	235 385	/b·ar	601-77-00
4			hungu.			O 1 (	

•	MESTINGHOUSE ELEC	RIC CORP.	7:	112	-3046 .	•	
WESTINGHOUSE ELECTRIC CORP.	FECTION STREET		- CC	71062	S114-1		•
TAPA FL	WBNP, C.W.	ING (1501	6	700 TO	NS APP		•-;
BARGE 315 CANT	BARGE INION MECHI	· FIRML		LCOURT M	<u>521-39-</u>		~
The state of the s		CLASS BIN CO BIOCE NO.	1166. 1166.	unit	PAICE	a-cust	<u> </u>
PERMANENT MAT		THE ITEMS ON TECHNICAL RE	CUTRE	CONT.	OP TH	י בידאנים צ	ac.
REF. NO. KIM	J-888	EXP. GLY SICLI	.A.Y 3K				
A P.O. 546 GRW 1219288, S.O. V	GENERATURS	Title			LDNVE		
SPIN WBT-RCPSCG, FOR STEAM (  (1) MODEL "D" ONE PIECE STE	AM GENERATOR #1						<del>-</del>
SERAIL #1611, DWG, 1100.181.	SIR. S. E SPEC			<u> </u>			
679059, REV. 2	-10/1	RIVER DOCK	1	EA	<b></b>		
QCR #25373, NCR #179, 18T F	RELEASE #40H (10-14-	ภ		-	<del> </del>		<u></u>
(2) MODEL "D" ONE PIECE ST	AM GENERATOR #2		<del> </del>	-			_
SERIAL #1612, DAG, 1100J81	SUB. 5, E SPEC			+-	-	-	<del> </del>
679059, REV. 2,			<del>  1</del> -	EA	-		+
OCR #25374, 1 & T RELEASE	料(10-14-75)	-		+-	-	<del>                                     </del>	t
NCR #1,80			_	+-	-		+
	·			_	+	<del></del>	+
CC: PARRIS				-			+
MATHIESON			_				T
Columbia Correct  Columbia Correct  Columbia Correct  Are REA UP3 Are Seres  Via		CMrier's	(VS	199 Ps	11 0	2380 F_1Z	
Gain Castent of NET.	11-13 (Sop) #A8/785	19 <u>75</u> 101 fold <b>e ses</b> ve 7919 betr	/	; . 	**	CI::Fe6 es.161 44	761
Control China  1, 11 Cest  5 14 Top 1 2 1 - TVA 1677	B H- ACO-	N. A. A. A. A. A. A. A. A. A. A. A. A. A.	Kay	nere BAY0	lw)	DINSON	مر سهاد
NPS 18 By	To a If the total 1 (a) do.	1-17-75	Andrew T	1 mars 40.	1700	1112	15
SO. G STTE PAS STTA	MESTINGHOUSE M	P125 59£	.Z>	97:0	1 4561-	Z-60/,	<i>7</i> .
			. •				

4 4,5	•	7.5	CELAINO ME OI	<b>N.</b> I	(		_		10	
2441.			INGHOUSE ELE	CTRIC C	ORP.		MBA	是现	NG -A	
	GHOUSE ELECTRIC CORP.	WENF	, C.W.	_			contract 1	5-2111	<u>+1</u>	
AMPA										. <b>.</b> .
	CAAAITA-	BARC	E UNION MECH	LING 45	ar ar		700	TON APT	ROX.	
	- country 11 % - parts						NO3C	ĵ-321-39	<del>}-</del> 0	
1981	AATICLES ON SCHWCE			SLASS (	IN OR	PICO.	UMIT	Unit Péict	AMQUAT	<b></b>
	PERMANENT MATER!	AL								
	REF: NKVU-888									
										<b>_</b>
<b>5A</b>	P.O. 546 GRN 1219288, S.O.	WBT-12	o, unit 2							_
	SPIN WET-ROPSCG - FOR STEAM	4 GENER	ATORS							_
	1) MODEL "D" ONE PIECE STE	AM GENE	RATOR #1,						!	
	SERIAL #1611, DWG 1100J81,	SUB 5,	E SPEC			!				L
	679059, REV 2			RIVER	DOCK	1	EA			
	QCR #25373, NCR #179, I &	T RELEA	SE #4CH (10-)	4-75)						_
	2) MODEL "D" ONE PIECE STE	AM GENE	RATOR #2		·					L
	SERIAL #1612, DWG 1100U81,	SUB 5,	E SPEC							L
	679059, REV 2		· · · · · · · · · · · · · · · · · · ·	-		1	EA	ļ	<b></b>	L
	QCR #25374, I & T RELEASE	#4CH (I	0-14-75)					ļ	<u> </u>	<u> </u>
	NCR #180									_
	THIS CLEARS OSORD #A-87785							L		
	MANWAY COVERS RECEIVED			<u> </u>	<del></del>			<u> </u>	<b></b>	-
					•			Agran :	1200	Ĺ
Desirate Art	Trice Common Covider Ve-662 IVA Ciprons Fraignt Air Alfa UP'S Air Sarge Make	Par. H Mail Peal	"CC: PARSI	S Eson N	Carrier's C	_			2380 -12	
		into Vatorial Pop Bocsiros	11-13	79			E. E. L. No.			
NEL	nor's Charges	custly that	the articles of services	179 g 1	80	ecciood in	+	tuality apace	had alkabe as a	401
	rery Charges	droved in his	parties America			Esy	-	1941	Carl.	
	of farm tva 1677	(S) 1881	ENDA HIXSON		Y	RA		A. JOHN	SIN	<b>-</b>
27R	···	3	23-76					- April 100	has Allend	
	10.9 SITE BAR SITA	1 35/10/15	MITZEW	<b>7</b>	SS S9£	453	SÞ:0	t 4661-	22-60 g-3	Z
										_

## FORM N-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSELS. As required by the Provisions of the ASME Code Rules.

				DEY AUEN	OTITYWa	atts Bar	I Sprin	g_City		····
Typ	e <u>Vertical</u> (Horis, or Vert.)	Kind <u>Ste</u> (Tank, Jacke	am <u>'er</u> ted, Heat	Vessel No. Ex.)	. ( 1594		\ N	at'l Bd. No	.0289 Yr.	. Built <u>197</u> 1
a App	plicable ASME (	Code: Sectio	n III. Ed	ition19					_	1591-4
			•			lass	F	LMED FROM	, Case	No. NB 464
		·								1355, 1493-1
ma 4 -	-8 incl. to be co	impleted for a	single w	all vennela	, jackets of	jacketed vess	els, or she	ls of heat ex	changers.	
	SR- Il: Material GR	בבני	90000	Nomina	ıl (					* in.
, Sens	ms: Long Weld					.T. Comple	te	Efficiency _	1	00
	Ginh Weld	i-Db1-But	ч.т. <u>'</u> _	Yes	R.	.т. <u>Comple</u>	te	No. of Course	cs	*
. Head	ds (a) Material	GR A CL2	T.S	90000	(b) Mas	icrial		T S.		
	Location , bottom, ends)		C-own	Knuckle	Elliptical	Conical	Hemispher		a1.4	
	Top	Thickness	Redius	Redius	Ratio	Apex Angle	Redius		er (Cone	e to Press. ex or Concava
	тор	3						,,,, .,, .,, 		ncave
`"'					<del></del>		1 10	6A791	HAR	107
If re	emovable, bolts	used 🚬 .	(Materia	I, Spec. No.	. T.S., Size, 1	Numbers	_Other fas	tening (Descr	+ V O O	43 (
Δασ	sur Clasure *G	lirth Wal						(Descr	ibe or attact	h sketch)
Gir	sy (Josure_*© cth Weld	ATTENTION OF	n-noti	PULL H	$\mathbf{X} \cdot \mathbf{R}$	s. complete	e			
	rrn wern		,	DE MR OESS	weld, bur, e	etc. If bar give o	limensions.	secribe or ake	tch\	
	cen werd		, ( 221	De HR ORSS			r neum	meric (	tch)	
					Chamu In	30 (	. 11 . 1	)	Test	1481
	ign Pressure¶				Chamu In	30 (	. 11 . 1	)		1481 psi
Desi	ign Pressure 11 ind 10 to be con	.85_ psi at _	600_	— OF act	Christy Im,	1, act 30 fi +10 c	t-lb Hydros F. Combi	static or }	Test Pressure	psi
Desi	ign Pressure 11 ind 10 to be con	.85_ psi at _	600 the section SA-5	ons.	Christy Im, cemp. of	1) act 30 fi +10 c	t-lb Hydros F. Combi	static or }	Test Pressure	psi
Desi	ign Pressure¶	.85_ psi at _	600 the section SA-5	— OF act	Christy Im.	1) act 30 fi +10 c	t-lb Hydros F. Combi	static or }	Test Pressure	psi
Desi	ign Pressure 11.	.85_ psi at _ npleted for tu mary. Materi	600	ons. 08 CL2 Spec. No.)	Charge Im, comp. of	1 2 10 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ckness ZI.	static or }	Pressure	Item IZ
Desi ms 9 u Tube	ign Pressure 11  and 10 to be con e Sheets: Statio	.85 psi at _  npleted for tu  nary. Materi	600 section of the se	OR CI2 Spec. No.)	Charty Im, cemp. of	75 in. Thic	ckness	static or hatton	Pressure .  hment See (Webse	Item IZ
Desi	ign Pressure 11 and 10 to be con e Sheets: Statio	.85 psi at _  npleted for tu  nary. Materi	600 section of the se	OR CI2 Spec. No.)	Charty Im, cemp. of	75 in. Thic	ckness	static or hatton	Pressure .  hment See (Webse	Item IZ
Desi	ign Pressure 11  and 10 to be con e Sheets: Statio  Floati es: Material S (Kind	npleted for tunary. Materi	600  the section of SA-5 (Kind a section of SA-5)  (Kind a section of SA-5)	OB CL2 Spec. No.)  Spec. No.)	Character Im.	75 in. Thic	ckness	static or hatton	Pressure .  hment See (Webse	Item IZ
Desi	ign Pressure 11  and 10 to be con e Sheets: Statio	npleted for tunary. Materi	600  the section of SA-5 (Kind a section of SA-5)  (Kind a section of SA-5)	OB CL2 Spec. No.)  Spec. No.)	Charty Im, cemp. of	75 in. This inches	ckness	static or hatton	Pressure .  hment See (Webse	Item IZ
Designs 9 ar Tube	ign Pressure 11 and 10 to be con e Sheets: Statio  Floati es: Material S (Kind to 14 incl. to b	npleted for tunary. Materi ing. Materi B-163 (). A Spec. No.)	ibe sectional SA-5 (Kind a Kind a CX (Xind a	OB CL2 Spec. No.)  Spec. No.)  in. Thickn  Mary Cha	Charw Im, cemp. of	75 in This inches	ckness ZI.	O3 in. Attac	Test Pressure hment See (Welde	psi d. Solted)
Designs 9 a Tube	ign Pressure 11 and 10 to be con e Sheets: Statio  Floati es: Material S (Kind to 14 incl. to b	npleted for tunary. Matering. Matering. Matering. B-163 (). a Spec. No.) e completed (	600  the section of SA-5 (Kind a section of range of rang	OB CL2 Spec. No.)  Spec. No.)  in. Thickn  Mary Cha	Charw Im, cemp. of	75 in. This inches	ckness ZI.	O3 in. Attac	Test Pressure hment See (Welde	Litem IZ d. Bolted)  U
Designs 9 a Tube	ign Pressure 11 and 10 to be con e Sheets: Statio  Floati es: Material S (Kind to 14 incl. to b)	npleted for tunary. Materi ing. Materi B-163 (). A Spec. No.)	600  al SA-5 (Kind a Sind OB CL2 Spec. No.)  Spec. No.)  in. Thickn  Mary Cha	Charty Im, comp. of	/5_ in. This inches or gage	ckness ZI.	DI in. Attacl in. Attacl ir. 4674	Test Pressure hment See (Welde	psi d. Solted)	
Designs 9 a Tube	ign Pressure 11  and 10 to be con e Sheets: Statio  Floati es: Material S (Kind to 14 incl. to b)  I: Material (Kind &) (Welded	npleted for tunary. Matering. Matering. Matering. B-163 (), a Spec. No.) e completed ( T.SSpec. No.) (Mi	ibe sectional SA-5 (Kind a SA-5)	OB CI2 Spec. No.)  Spec. No.)  in. Thickn  Mary Cha  Nominal  Thickne  repectited)	Charw Im, cemp. of	/5 in. This operation in this inches or gage	ckness ZL.	D3 in. Attacline to the ft in.	Pressure .  hment See (Welde hment	psi d. Solted)
Tube  fulle  Shell	ign Pressure 11 and 10 to be con e Sheets: Statio  Floati es: Material S (Kind to 14 incl. to b  I: Material (Kind & ns: Long (Welded)	npleted for tunary. Materi ing. Materi B-163 (). A Spec. No.)	ibe sectional SA-5 (Kind a SA-5)	OB CL2 Spec. No.)  Spec. No.)  in. Thickn  Mary Cha	Charty Im, cemp. of	75 in Thicopress.  in Thicopress.  in Thicopress.  in Thicopress.  T	ckness ZL.	D3 in. Attacline to the ft in.	Pressure .  hment See (Welde hment	psi d. Solted)
Designs 9 a Tube false Seam HORIZ	ign Pressure 11 and 10 to be con e Sheets: Statio  Floati es: Material S (Kind a) to 14 incl. to b	npleted for tunary. Matering. Matering. Matering. B-163 (). A Spec. No.) c completed ( T.S. Spec. No.) (Mid. Ohl., Single) - Db1-Butt	ibe sectional SA-5 (Kind & Carlot Annual Car	OB CL2 Spec. No.)  Spec. No.)  in. Thickn  Mary Char  Nominal Thickne  repetited  (Yes or I	Charty Im, cemp. of	in. This inches or gage	ckness ZI.	D3 in. Attacline in. Attacliner 4674  ftin.	Test Pressure  hment See (Welue hment Type (Str.	Litem IZ d. Bolted)  U
Designs 9 a Tube Tube Stabe Seam HORIZ	ign Pressure 11 and 10 to be con e Sheets: Statio  Floati es: Material S (Kind a to 14 incl. to b  I: Material (Kind a ns: Long (Welded Digth Weld ZED)	npleted for tunary. Matering. Matering. Matering. B-163 (). A Spec. No.) c completed ( T.S. Spec. No.) (Mid. Ohl., Single) - Db1-Butt	do of the section of	OB CL2 Spec. No.)  Spec. No.)  In. Thicknown Mary Charles  Nominal Thickne repetited  (Yes or 1)  Yes  (b) M.	Charty Im, cemp. of	75 in Thicopress.  in Thicopress.  Corrosion Allowance in T.  T. Complete  -216 GR.	ckness ZI.  ckness ZI.  cknessNuml	D3 in. Attaclin. Attaclin. Attaclin. Attaclin. Attaclin. Efficiency	Test Pressure  hment See (Welue hment Type (Str.	Litem IZ d. Bolted)  U
Tube  False  Seam  HORIZ  HEad	ign Pressure 11 and 10 to be con e Sheets: Statio  Floati es: Material S (Kind to 14 incl. to b)  I: Material (Kind & ns: Long (Welded Digth Weld ZED)  is: (a) Material	npleted for turnary. Materi ing. Materi B-163 (). A Spec. No.) c completed ( T.S. Spec. No.) (Mi i. Dhl., Single) -Db1-Butt	ibe sectional SA-5 (Kind & Carlot Annual Car	OB CL2 Spec. No.)  Spec. No.)  in. Thickn  Mary Char  Nominal Thickne  repetited  (Yes or I	Charty Im, cemp. of	in. This inches or gage	ckness ZI.	D3 in. Attaclin. Attaclin. Attaclin. Attaclin. Attaclin. Efficiency	Test Pressure Pressure  Medde  hment Type (Str.  Length  T.S. Side	Litem IZ d. Bolted)  U
Tube Tube Tube Seam HORIZ Head  2 3 11  (a) T	ign Pressure 11 and 10 to be con e Sheets: Statio  Floati es: Material S (Kind a) to 14 incl. to b  I: Material (Kind a) ns: Long (Welded  Victh Weld  Is: (a) Material Limition op, bottom; end	npleted for turnary. Materi ing. Materi B-163 (). A Spec. No.) c completed ( T.S. Spec. No.) (Mi i. Dhl., Single) -Db1-Butt	doo section of the se	Nominal Thickne specified)  (Yes or 1)  Knuckle	Charty Im, cemp. of	75 in. This operate in. This inches or gage  Corrosion Allowance in T.  T. Complete -216 GR.  ( T.S. 70	ckness ZI.  ckness ZI.  cknessNuml  in. Dia  10000 (c) 8  Hemiapheric Restus	D3 in. Attaclin. Attaclin. Attaclin. Attaclin. Attaclin. Efficiency	Test Pressure  hment See (Welue hment  Type (Str.  Length  T.S. Side (Conver	to Press.
Tube  Tube  Tube  Shell  Seam  HORIZ  HORIZ  (a) T	ign Pressure 11 and 10 to be con e Sheets: Statio  Floati es: Material S (Kind to 14 incl. to b)  I: Material (Kind & ns: Long (Welded Digth Weld ZED)  is: (a) Material	npleted for tunary. Matering. Matering. Matering. Matering. B-163 (), a Spec. No.) (Minus J. Dhi., Single)  J. Dhi., Single)  Thickness	doo section of the se	Nominal Thickne specified)  (Yes or 1)  Knuckle	Charty Im, cemp. of	75 in. This operate in. This inches or gage  Corrosion Allowance in T.  T. Complete -216 GR.  ( T.S. 70	ckness ZI.  ckness ZI.  cknessNuml  in. Dia	D3 in. Attaclin. Attaclin. Attaclin. Attaclin. Attaclin. Efficiency	Test Pressure Pressure  Medde  hment Type (Str.  Length  T.S. Side	to Press.
Tube Tube Tube Seam HORIZ HORIZ HCS.E	ign Pressure 11 and 10 to be con e Sheets: Statio  Floati es: Material Statio  I: Material (Kind a Kind a K	npleted for tunary. Materians. Ma	doo section of the se	Nominal Thickne specified)  (Yes or 1)  Knuckle	Charty Im, cemp. of	75 in. This operate in. This inches or gage  Corrosion Allowance in T.  T. Complete -216 GR.  ( T.S. 70	ckness ZI.  ckness ZI.  cknessNuml  in. Dia  10000 (c) 8  Hemiapheric Restus	D3 in. Attaclin. Attaclin. Attaclin. Attaclin. Attaclin. Efficiency	Test Pressure  hment See (Welue hment  Type (Str.  Length  T.S. Side (Conver	to Press.
Tube Tube Tube Seam HORIZ HORIZ HES.E	ign Pressure 11 and 10 to be con e Sheets: Statio  Floati es: Material S (Kind a) to 14 incl. to b  I: Material (Kind a) ns: Long (Welded TED) Is: (a) Material Limition op, bottom; end Report	npleted for tunary. Matering. Matering. Matering. Matering. B-163 (), a Spec. No.) (completed (comp	doo  the section of SA-5  (Kind a SA-5)  (Kind a SA-6)  (Kind a SA	Nominal Thickne specified)  (Yes or 1)  Knuckle Rudius	Charty Im, cemp. of	75 in This operation in This inches or gage  T. Complete  -216 GR.  Content Aper Angle	ckness ZI.  ckness ZI.  cknessNuml  in. Dia  10000 (c) 8  Hemiapheric Resture  62.81	onation  Di in. Attacl  in. Attacl  in. Attacl  ber 4674  ftin.  Efficiency  No. of Course  Material  Flut  Diameter	Test Pressure  hment See (Welue hment  Type (Str.  Length  T.S. Side (Conver	to Press.
Tube Tube Tube Seam HORIZ HORIZ HCS.E	ign Pressure 11 and 10 to be con e Sheets: Statio  Floati es: Material S (Kind a) to 14 incl. to b  I: Material (Kind a) ns: Long (Welded TED) Is: (a) Material Limition op, bottom; end Report	npleted for tunary. Materians. Ma	doo  the section of SA-5  (Kind a SA-5)  (Kind a SA-6)  (Kind a SA	Nominal Thickne  (Yes or 1)  Knuckle Rudius  (b)  Number)	Charty Im, cemp. of	Jact 30 (1 +10 c) 1 +	ckness ZI.  ckness ZI.  cknessNuml  in. Dia  10000 (c) 8  Hemiapheric Resture  62.81	in. Attaclin. At	Test Pressure  hment See (Welue hment  Type (Str.  Length  T.S. Side (Conver	to Press.

<u>.                                    </u>			•	FORM	-1 (hack)			150/
	in below to be complet	• , .		plicable.		FILMED, AVAILA	FROM BEXT	1594
	Safety Valve Outlets: Nozzles:	Number_	Siz	e	_ Location,			
	Purpose (Inlet, Outlet, Drain) Prim_Inlet	Number 1	31" I.D.	(Weld)	Material (SA-216)	Thickness 3.00"	Reinforcement Materiui (SA-216)	How Atteched (Integral
	Prim. Outlet Steam Outlet	1	31" I.D. 29" I.D.	(End ) (Weld)	(GR WCC)	3.00"	(GR WCC)	(Cast
	Peedwater	î	14" I.D.	(End)	(SA-508) (CL.2)	<u>1.20"</u> 0.76"	Steel Steel	Welded Welded
17.	Inspection Manholes,	_	Size. 16"	l.matin	(2) Chambe		pper Shell	HEIGEG
	Openings: Handholes Instrumentation	, No2.	Size <u>6"</u> Size <u>2"</u>		Stub Berre	1 Portion	of lower She	11
A	uxiliary Feedwa						of Lower Sh	
18.	andhouse agric	Lug3 بــــــــــــــــــــــــــــــــــــ		ES	Other X	Arrac	hed <u>See Belo</u>	
19	Four Main Sappa	orts ar	e cast"inter	grai <sup>w</sup> Wit	h the chamb	ar.,	(Where &	
•,,	Remarks: This Nocertificate of	shop i	nspection for	or every	<u>by the aut</u>	horized c	ode inspector	mder.
	and andaedneut	<u>lnspec</u>	tion. Field	i inspec	tor must si	on off for	r the latter	1:====
	certificate of	Ileia	assembly ins	spection	below. Al	1 other M	fo. la anacif	ied on
	Manufacturers' inspection inst	rartia	1 Data Forms	3 N-2 ff	led at West	Inchase	Aux Noz a	nd 2.6 incl
	Laspection Inst	alleu .				prements	No. 1 and 2.	
	Design information on fl	ie at Wes	Cen Linghouse Fi	Hricain lectric	ON OF DESIGN	Tompa D	lariaton To-	_
	ottess municals report of	r (ile ut _)Y	estingnouse	Llectri	c Corporati	on. Tamna	Division Te	ma - FT
					tems	Prof. Eng. State	Claurer Res. No	13335-E
	Stress unalysis report co	rtifled by_	Tampa Divis	ion	·	Prof. Eng. State	Reg. No.	13436
)n	e certify that the sta of the ASME Code, Se	itements m	ade in this report	are correct	and that this nu	iclear vessel o	onforms to the rule	s of construc-
	March 3		5 Signed Wes		se Elec.	0 <	> wed	le/
Cert	ificate of authorization	Expires .	May 3, 1975	<u> </u>	-	Certificate of	Authorization No	N-438
	•		CERTIFIC	ATE OF S	HOP INSPECT	ION		
. V	ESSEL MADE BY West	ingnou	se Electric	Corpora	tion	Tame	, Florida	1
	Pro ince of Pennsy	( a va. c	ommission issued to	by the Nation	el Board of Boller	and Pressure V	essel Inspectors and/	or the State
na ×t	ive inspected the pressur ute that to the best of side, Section III.	e vessel de	scribed in this Man	ulacturaria ()		u	0	ا سم
B;	r signing this certificate rasel described in this 3 r any personul injury us p							he pressure any manner
D.	The Aller	Side	1975	-			enna.wc2	23/
		(*)						
1,	the undersigned, holding		ERTIFICATE O					•
OF	Province of In. Par E	eni من eni	l umployed	LEANEN TI	Table "Sudif	- (a La	ME MANUE. 71	
	Callema						-1.00	ļ
Pn	en inspected by me and to the accordance with the sumstic Test of	37	psig Prima	e and hellel ( le described eu Sido	the munufacturer h. vessel was inspe	as constructed a circle and subject and subject	nd assembled this protect to a hydrostatic	test and/or
	signing this certificate seel described in this Many personal injury or pro-							ne pressure any manner
	5 m mx	ian'		Commis	NB 50	.08 7	7.692	
	Inspectore	Signature		Commit	Nut	iunal Board, Sta	te, Province and No.	

Printed in U.S.A. (7/71) This form (EJR) is obtainable from the ASME, J45 E. 47th St., New York, N.Y. 10017 \* Doring The Primary hydre, the secondary side was

# Westinghouse

57



#### us ear Steam Generator

A300C 1594

Septimary Side Secondary

Class L. C

SPIN NOWAT RCPCSC

Westinghouse Elec Corp.

123236750 MADE IN 5.3 A

#### FILMED FROM BEST AVAILABLE COPY

HARD COPY RETAINED

1/15		•• •	
NAIL	BOARD	No	-W10289
			_ ,

Size Sq. Ft. Series Secondary Side Secondary Secondary Side Secondary Secondary Secondary Side Secondary S

OF 18;

AGE 187 OF

Form N-1 Manufacturer's Data Report for Nuclear Vessels

(	Manufactured by Westinghouse Electric Corporation, Tampa Division, Tampa, Florida	
3.	Manufactured for Tennessee Valley Authority - Watts Bar #1 - Spring City, TN  Type Vertical Kind Steam Generator Series D Vessel No. 1594 National Board No. W10289 Year Built 1975	-
Au	eld change was made to the steam generator under the supervision and control of singhouse Tampa Division by extension of the Tampa Division Certificate of corization as authorized by the ASME, Jurisdictional Authority of the State of Tennessee , the owner Tennessee Valley Authority the Authorized Inspection Agency.	
Th	change consisted of the installation of an auxiliary feedwater nozzle through the r shell of the steam generator and the connecting of internal piping by weldment. change was made in accordance with Westinghouse Tampa Division procedur: RE-76-1 ev. 6 and installation drawing 1104J43 Chg. 2. Change design information stress analysis report are on file at Westinghouse Tampa Division, Tampa, Florida	3
_	ertify that the statements made in this report are correct and that the design and allation of the auxiliary feedwater nozzle conforms to the rules of construction he ASME Code, Section III.	1
Cer	Sept. 12, 1978 Signed Westinghouse Electric Corp. By R.P. Weller ificate of Authorization expires June 16, 1981 ification of Authorization No. N-1154	
ins	Supplement is signed by the Field Authorized Nuclear Inspector indicating accepted of the field change work with exception of the hydrostatic test and subsequent ection. Acceptance of the latter items will be indicated by the ANI signature of Form N-1 Certificate of Field Assembly Inspection.	\
	HARD COPY RETAINED  CERTIFICATE OF FIELD INSPECTION	
the and	ressure Vessel Inspectors and/or the State of Tennessee have inspected thange described in this supplement and state that to the best of my knowledge belief, the change to this pressure vessel conforms to the rules of construction me ASME, Section III.	/ *2
Per	gning this Certificate, neither the inspector nor his employer makes any warrantessed or implied, concerning the alteration described in this supplement. Further neither the inspector nor his employer shall be liable in any manner for any mal injury or property damage or a loss of any kind arising from or connected wit inspection.	Ō
Dat	Sept. 12 1978 Signed Signed Commission NB-6260, TN-2196 State or National Board	- WA

Form N-1 Manufacturer's Data Report for Nuclear Vessels

1 Manufactured by Wassingham R.
1. Manufactured by Westinghouse Electric Corporation, Tampa Division, Tampa, Florida
2. Manufactured forTennessee Valley Authority - Watts Bar #1
3. Type Vertical Kind Steam Generator Series D Vessel No. 1594 National Board No. W10289
National Board No. W10289 Year Built 1975
A field change was made to the steam generator under the supervision and control of Mestinghouse Tampa Division by extension of the Tampa Division Certificate of Authorization as authorized by the ASME, Jurisdictional Authority of the State of Tennessee, the owner, Tennessee Valley Authority, and the Authorized Inspection Agency.
The change consisted of adding a 2.6 inch diameter inspection opening in the lower shell immediately above the upper tube support plate on the vessel 'W' axis. Closure hardware consists of a bolted cover and gasket. Bolts are SA-193 Gr. B7, covers are SA-516 Gr. 70 carbon steel, and gaskets are spiral wound inconel with asbestos filler.
The change was made in accordance with Westinghouse Tampa Division procedure RE-79-02 and drawing 1511E20. Change design information and stress analysis report are on file at Westinghouse Tampa Division, Tampa, Florida.
e certify that the statements made in this report are correct and that the design and installation of the inspection openings conforms to the rules of construction of the SME Code, Section III.
Date 3/23/79 Signed Westinghouse Elec. Corp. By Certificate of Authorization expires June 16, 1981 Certification of Authorization No. N-1154
This Supplemental Report is signed by the Field Authorized Nuclear Inspector indicating acceptance of the field change work with exception of the hydrostatic test and subsequent inspection. Acceptance of the latter items will be indicated by the ANI signature of the Final Data Report for the completed vessel.
HARD COPY RETAINED CERTIFICATE OF FIELD INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of the change described in this supplement and state that to the best of my knowledge and belief, the change to this pressure vessel conforms to the rules of construction of the ASME Code, Section III.
By signing this Certificate, neither the inspector nor his employer makes any warranty expressed or implied, concerning the alteration described in this supplement. Furthere, neither the inspector nor his employer shall be liable in any manner for any ersonal injury or property damage or a loss of any kind arising from or connected with this inspection.
Inspectok State or National

# PAGE 150 OF 187

#### WORK CONTROL FOR NON-TRANSFERRED FEATURES (UNIT 2) APPENDIX T

CAI-1.01 Revision 10 Page 32 of 34

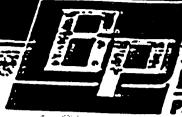
#### Component/Part Removal or Refurbishment

ER No. ER-03 49-01/ Page / of 4

NIT:	2	SYSTEM NO.:	068	BP-38	Number: 👱	7-068-	04/
				AR 3-34'77	Held By:	NA	_24 i
or Removal	Lof: ID No	. 2-56	EN-068- 5	WI 163			
	Descr	iption of	Item: 200	anway	Cover 11	20181 3	H IOFZ
erak oleh sekol		. ~	1/1				
Location:	Bldg.	BLD G	Elev.	735	Coord	. <u>56</u>	3 4
OITL, Defi Items iden	ciency, and tified:	TROI lists	, etc., re	view comp	lete		l
Responsibl	e Engineer:	10 a	wel Re	iel_	/Date:	3-6-9	2
Step No.	l Descr	iption of W	lork to be	Performed	l (See Appen	dix U)	
/	PME	nal TVA	Task	Money	a to ver	Ly co	mpone
	is not	required	la d	Unit 1	operation	in	to_
		2 Soca					
,	PME	· Danel	Reed	3-6-99			
	TVA 7	nek Ma	magar:	l reg	Just	3	-6-99
			<u>-</u>		my Next to Ladde	/	
2	ac to very	la mia E	s venou	I: Rob	et EPuts	- 3-2	8-99
Responsib	le Engineef	2)	and Re	معو	Date <u>3-5-7</u>	2 Ext _	2017
Authorizi	ng Superviso	r D. Rea	I fa Ra	my tank	Date 3-5-9	9	
	a Sima Engli	100 J	7.00.00		Date 3/6/	<u> </u>	
-	D		- II-i- 1 a	operation (G. S&IS	or ABSCETTED MIC POSITION Date 3-06-9	K8/62	its UTION. Us
Civil Eng					Date' <u>3-06-9</u> 1, Structur		
Operation	()		inne		Date <u>3-29</u>		
Work Comp	lete:						
		Craft Rep		Date			
(Verified	App T, PEG	2kg for ma	terial to	be used	n QA applica Forward a cop	tion ar	nd nis
review of	: incomplete	·work/outst	anding pr	oblems.	forward a cop	·A OF CI	13
document	to the Unit	Z PM Group			Responsible 3		Date
	LIFETIME			2.7	SPCNSIBILITY:	DCRM	

. Owner TENI	NESSEE VALLEY AL	JTHORITY	Date	3 ,	1,2/9.	9		
400 W.	Name Summit Hill Drive, K	noxville, TN	Sheet	Q1	<del></del>			
. Plant Watt	Address s Bar Nuclear Plant		Unit U	nit 1				
P. O. 8	Name ox 2000, Spring City,	TN, 37381		w/o	98-0	,49	74-0/	
. Work Perform	ed by Watts Bar N	uclear Plant	Type Cod	Repair Crie Symb	janization F	P.O. Na.	, Jap Na., etc.	
90 Box 20	20 Sprinc (1	ty TN 37381	Authoriza	tion No			1.2	
?	Address		Expiration	n Date	<del></del>		\.	
. Identification o	of system 62	- CVCS			<del></del>			
	Construction Code		STEEL CON	STRUCT	Addend	NUAC	1./4 Coc	te Casi
(b) Applicable	Edition of Section XI	Utilized for Repairs	or Replace	ments	1989			ic Case
	of Components Repai			-		<del></del>		
	- Components (Cpar	lica of Neplaced and	Replacem	T Con	iponents	T		ASME
Name of Component	t Name of Manufacturer	Manufacturer Senai No.	National Board No.	Cthoris	entification	Year	Repaired, Replaced, or	Code Stampe (Yes o
-SNUB- 062- 62A2YZ	PSA	83 Z	NA	SIZE		Built	Replacement	No)
				CITE	_14		Kepinesa	700
-SNUB-062 .							10 .2-	 
624242	PSA	3516	NA	SIZE	14	85	Replace	No
					<del></del>			
				<u>†</u>	<del></del>			
					<del></del>			
7. Description of	Work Replace	ced Snubba	<b>~</b>					
		Dogumetic C. Nomic	nal Oneratio	nn Prace	ure ()			
l. Tests Conduc	ted: Hydrostatic 🗆 F	ssurep	iai Operatii isi Tost T	ama	4.0	۰F		

FORM NIS-2 (Back)	
9. Remarks	
TRACKING # RR-CZ-88 2667/12/99	
CERTIFICATE OF COMPLIANCE	
A-1124-11-	
We certify that the statements made in the report are correct and this REPLACEMENT conforms repair or replacement	to the
rules of the ASME Code, Section XI.	
Type Code Symbol Stamp しかんぎ	<del></del>
Certificate of Authorization No. NA	
Signed DJ (1) Dus Mach Engy Date 4/5	999
Owner or Owner's Designee, Title	<u> </u>
CERTIFICATE OF INSERVICE INSPECTION	
। I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure V	essel
Inspectors and the State or Province of and employed by	
of Hartford, CT have inspected the components described in this	
Owner's Report during the period 3-12-99 to 4-5-99 and state that to	
of my knowledge and belief, the Owner has performed examinations and taken corrective measures of	
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 in	nplied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore	
the inspector nor his employer shall be liable in any manner for any personal injury or property damag	
loss of any kind arising from or connected with this inspection.	-
Musti Have Commissions TN 2533	
Inspector's Signature National Board, State, Province, and Endors	ements
Date 4-5 19 99	
13 //	



BERGEN-PATERSON

Months St. wining Laco

Leconia. M. H.

Tel. (003) 524-1990

L

L (

# Certificate of Compliance

9.0. Item 8	<u> </u>			<del></del>	#4./9EVISI	
RD #75C407	A STATE OF THE PARTY OF THE PAR	-		1 (4) (4)		
Senal 6: 3516	PS.1-!					
This PSA unit is in a	cordance with	-	· · ·		The second of th	
PSCo. Soec. #DR-131 1/3/84 and 8-PPC Pro						
RM.	C 08P-37.6-31.	_				
rtione CROCK-PATERSON Nothly (				:		, ·

#### and the same of the RGEN-PATERSON PIPESUPPORT CORPORATION

#### TEST-STAND #023

DATE: 10-18-1985 TIME: 15: 27: 20

ACCOMPANIES THE PROPERTY OF THE

FERATORE DONALD R FORTIN

DMISER PCCEL 0:PSA-1/4/SERIAL 0:7516

POWER STATICHMATTS BAR

HONGER MARK 0:N/A TEST PROCEDURE OF SP-8504-51

DRAG TEST

-4 FORCE (CO-P-4 7.1 LES

"AND FLACE FACH ICLD POSITION (COMP) =

LOSI MOTION TEST

SET METICA = .CED IV

ACTIVATION

- FCFCE AFPLIED =

--: -: 0:24 u'S

X. FORCE APPLIED =

HAX: ACCENTE: 0:12 g S

CCEPTANCE CRITERIA

MAX. DRAG LOAD ? 7 LES (CT OF SATED LOAD)

DRAG LOAD MAY DE -2% PUT :5% FCR /.5 SECS.

MAX. DRAG LOAD < 17.5 LBS (ST OF RATED LCAS)

MAX. LOST MOTION = .040 IN

HAX. ALLOWABLE ACCEN = 02g'S

MIN. ALLOWABLE ACCLN = 5% OF .029'S = .0019'S

SNUBBER MEETS CRITERIA

. Owner TENNE	ESSEE VALLEY AU	THORITY	Date	211-100			
	Name			3/18/77			
	Address Address	loxville, IN	Sheet	of			
2. Plant Watts	Bar Nuclear Plant		Unit Un	uit 1		NE3/5/02	-
P. O. Box	x 2000, Spring City,	TN, 37381	_wo	98-003 Repair Organization P	441	-0200	!
3. Work Performed	by Mach Man		Type Code	Symbol Stamp		100 No., etc.	
	N	ame-	Authorizati	ion No	5 <u>M</u>		
,	Address	•	Expiration	Date N	4		
4. Identification of	system May	n Steam					
5. (a) Applicable C	Construction Code	Se. D TI 19 7	Edition,	Addend:	a, ,	Od Cod	e Case
	Edition of Section XI	<del> </del>	<del></del>	<del></del>			
3. Identification of	Components Repai	red or Replaced and	d Replaceme	ent Components			
			National	suc slight	Year	Repaired, Replaced, or	ASME Code Stamped (Yes or
Name of Component  5/G Secondary	Name of Manufacturer	Manufacturer Serial No	. Board No. ω 1 02 8 g	Other Identification	Built	Replacement	No)
Colle	Whofmy house	1593		68-562	75	1 Ages.	Yes
Secondary MW	Westinghouse	1869502	NA	MA	98	Replaced	N
Cover Studen Durs		MA	NA	HEAT	86	Replaced	No.
Cover Study Alurs one sti	Westwshars.		<i>/</i> 0 <i>A</i>	14734	00	периса	
الا عبل	Next A			74734		replace	
Olic 5	Nova Nova			74734		weppace.	
الا عمل	Nova Nova			74734		weppace.	
NUTS	Neva se						
NUTS	Work Parair,						ice

RICE LOSS BOY

A referred of

\*See Dwg. 1101350

14. Design pressure 2485 par at 650

AGE

AT CHARL

		ER'S REPORT FOR by the Provisions of I					
1. Owner TENN	IESSEE VALLEY AU	THORITY	Date	11 APRIL	1999	9	
400 W.	Name Summit Hill Drive, Kr	noxville, TN	Sheet	1 of Z	,		
2. Plant Watts	Address Bar Nuclear Plant		Unit Un	it 1			
P. O. Bo	Name ox 2000, Spring City,	TN, 37381	WORL CO	DER 99-00	3107	<b>CCO</b>	
3. Work Performe	Address PA McDIF	ICATIONS	Type Code	DEL 99 - 00 Repair Organization Per Symbol Stamp	O. No.,	Job No., etc.	
WELTER BARN	LICLEAR PLANT	ame	Authorizat	ion No			
70/A / : 2 / Saile 10	Address		Expiration	Date	,	A	
4. Identification o	f system STE AM	A GENELATOR BU	•		5	2	<del></del> -
(b) Applicable	Edition of Section XI	SME SECT III 9 71 Utilized for Repairs of red or Replaced and	r Replacer	nents 1989		<u> </u>	le Case
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 -0/5-B (4"(2" REDUCA)	C USTOM ALLOX	N/A	4/A	4/A	1499	REPLACED	No
					-		
•							
7. Description of	Work REPLACE	4"12" REDUCER	s on Loc	plfleep 4 s	6GBD	PIPING	
8. Tests Conduc	cted: Hydrostatic 🗵 l Other 🗀 Pres	Pneumatic  Nomir ssure  1013 min p	ial Operatir si Test T	ng Pressure 🏋 emp <i>553 mil</i> emp <del>555 max</del>	,°F		
11 in.,	(2) information in iter	n of lists, sketches, or ns 1 through 6 on this er of sheets is recorde	s report is i	ncluded on each			
		PAGE	46	0F <b>58</b>			

FORM NIS-2 (Back)
9. Remarks REF CODE CASE N-416-1 Applicable Manufacturers Cuta Reports to Se Attached  TARCHIE # RA-OZ - 9C XXXX 1/16/49
TANCUS = # RX-02-96 XCE3/16/99
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this <u>REPLACEMENT</u> conforms to the repair or replacement rules of the ASME Code, Section XI.
Type Code Symbol Stamp
Certificate of Authorization No.
Signed Mutth Carried Court ENGR Date 11 April 19 99  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 TRUNKSSEE and employed by HSB IFE co
of Hartrand CT. have inspected the components described in this
Owner's Report during the period $3/(6/2)$ to $4/(2)/2$ 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.
loss of any kind ansing from or conflected with this inspection.
Some Marian   Commissions   TN 2534   I N "A"     Inspector's Signature   National Board, State, Province, and Endorsements
Inspector's Signaturé National Board, State, Province, and Endorsements
Date 4//2 19 7/

MOD 99-003/07-000

PAGE 47 OF 58

1. Owner TENNE	SSEE VALLEY AU	by the Provisions of	Date	//	Apric		<i>. 4</i>	<u> </u>
	Name 400 W. Summit Hill Drive, Knoxville, TN					- // ·		
	Address	TOXVIIIE, TIV	Sheet	1	of	<u></u>		
	Bar Nuclear Plant		Unit Ur	nit 1				
P. O. Box	2000, Spring City,	TN, 37381	WORK CE	DER	99-00	3107	- <i>CC  </i> , Job No., etc.	
<ol><li>Work Performed</li></ol>	by TVA MODIF		Type Code	e Syn	nbol Stan	1P.O. No.	, 300 NO., 91C.	
WATTS BAR NU	ice Mr Plant	ame	Authorizat	ion N	lo		<u> Z</u>	
	Address		Expiration	Date	,	,	· ,+	
4. Identification of	system STEAN	GENERATORBL	SMDOWN	1/5	15 TENI	015	2	-
5. (a) Applicable C		SME SET III 1971					218/1/8/29	le Case
		Utilized for Repairs					7-07	
6 Identification of	Components Renai	red or Replaced and	Replaceme	ent C	omnonen	<del></del>		
o. Identification of	Joinponding Repair	Tea of Replaced and	Teplaceme	1				ASME
							Repaired,	Code Stamped
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Othe	er Identificati	Year on Built	Replaced, or Replacement	(Yes or No)
1-PIPE-015-B (4"12" REDULBU	CUSTOM	MIN	N/A		NIA	1949	REPLACED	No
C4 12 ABSUR	ACCO,	N.C.	74/~		~  -	1777	KERLALES	~0
					· · · · · · · · · · · · · · · · · · ·	_		
		·						
				<del> </del>				
							1	
				<u> </u>				
·								
7. Description of V	Nork C=0100=	fice" SGBD REDU	capall.		7 (2)			
	NO MACE	TO SAID NOW	ica si a	ルングラ	<u> </u>			·
8. Tests Conducte	ed: Hydrostatic 🗦 F Other 🗀 Pres	Pneumatic Nomir sure 1068 MIN sure 1011 MAX p	nal Operatir si Test T	ng Pro emp	essure A	*F		
11 in., (2	2) information in iter	n of lists, sketches, o ns 1 through 6 on this r of sheets is recorde	s report is in	nclud	ed on ead		• /	
00	-003/07-004	1	PAGE	 5^	 or	70	<u> </u>	

FORM NIS	-2 (Back)
9. Remarks CODE CASE N-416-1 Applicable Manufacturers Co TRACKING TRACE - 7/1/20/1/100	To Consider to the Marchael
Takexies TR4-62-7/	la reports to de Attached
CERTIFICATE O	COMPLIANCE
We certify that the statements made in the report are co	rrect and this REPLACEMENT conforms to the
	repair or replacement
rules of the ASME Code, Section XI.	
Type Code Symbol Stamp	· · · · · · · · · · · · · · · · · · ·
	A
Certificate of Authorization No.	
Signed Limith Currell Coust E Owner or Owner's Designee, Title	WGR Date // APRIL 19 99
CERTIFICATE OF INS	ERVICE INSPECTION
I, the undersigned, holding a valid commission issued b	v the National Board of Boiler and Pressure Vessel
Inspectors and the State or Province of Technesise	
of Hactford CT. hav	e inspected the components described in this
	to 4/12/77 and state that to the best
	examinations and taken corrective measures described
in this Owner's Report in accordance with the requirement	ents of the ASME Code. Section XI.
By signing this certificate neither the inspector nor his e	mployer 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 ma	nner for any personal injury or property damage or a
loss of any kind arising from or connected with this insp	ection.
Snuce Wi Earned Commissions Inspector's Signature	TU 2539 エール " " " " " " " " " " " " " " " " " " "
·	National Board, State, Province, and Endorsements
Date 4/12 19 29	
· · · · · · · · · · · · · · · · · · ·	
Wis 99-003107-001	PAGE 51 OF 70

#### WO # 98-002000-001

1. Owner	TENNE	SSEE VALLEY AU	THORITY	Date	03/17/99				
40	00 W. S	ummit Hill Drive, Kr	oxville, TN	Sheet	(	of			
2. Plant	Watts	Address Bar Nuclear Plant		Unit	Unit 1				
ρ	. O. Box	Name 2000, Spring City,	TN, 37381	98-002	000-001				
3. Work Pe	erformed	Address by WSI		Type C	Repair O	rganization P	O. No., N/A	Job No., etc.	<del></del>
2225 SKYL	AND C	OURT, NORCROSS	ame S. GA, 30071		zation No	·			
		Address			ion Date	N/A	·		
4. Identific	ation of	system CONTRO	L ROD DRIVE SYST	•					<del>-</del>
5. (a) Appl	icable C	onstruction Code S	SEC III, CL 1 19 71	Edition	, WIN, 72	Addenda	l.	N-504 Cod	te Case
			Utilized for Repairs	_		1989	·	<del></del>	
6. Identific	ation of	Components Repail	red or Replaced and	Replace	ement Co	mponents			
				Nation		•	Year	Repaired, Replaced, or	ASME Code Stampe (Yes o
Name of Col		Name of Manufacturer ROTTERDAM	Manufacturer Serial No. 30749	Board I		Identification RCPCRV	Built 1974	Replacement REPAIR	No) Y
REACTOR V	ESSEL								
						<del></del>			
			,						
	<del></del>					<u> </u>			
					_		<u> </u>		
	·					-	<u> </u>		<u></u>
7. Descrip	otion of \	Work REPAIR CRE	OM CANOPY SEAL \	WELDS.	PENETF	**************************************	13.	· 	
	****	Other X Pres		Test 1	emp	°F		(4) aima ia	01/ :
NOTE:	Supplen 11 in., (2	Other X Pres *****SEE SECTION 9 nental sheets in form 2) information in item	ssure psi	Test 1 or drawin s report	gs may b is include	°F e used, pro d on each	ovided		

#### WO # 98-002000-001

FORM NIS-2 (Back)
9. Remarks Applicable Manufacturers Data Reports to be Attached
TRACKING # RR-02-92 2023/17/99
RELIEF REQUEST 1-RR- 02 (CODE CASE N-504)
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this <u>REPAIR</u> conforms to the repair or replacement rules of the ASME Code, Section XI.
Type Code Symbol Stamp NR REPAIR SYMBOL
Certificate of Authorization No. NR 69 EXPIRES NOV. 7, 2001
Signed Caviel M. Which WSI OA/OC Date MARCH 22 19 99 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 <u>Tennessee</u> and employed by <u>HSB I &amp; I</u>
of HARTFORD, CT have inspected the components described in
this
Owner's Report during the period $\frac{3/(2)/(2)}{2}$ to $\frac{3/(2)/(2)}{2}$ 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 conviction 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.
,
Inspector's Signature Commissions TN 2534 I N NA National Board, State, Province, and Endorsements
Date 3/22 19 19

## FORM NR-1 REPORT OF REPAIR X MODIFICATION CONTINUE OF REPLACEMENT(S) CONTINUE TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

v performed by	WELDING SERVICES INC.	
	1 0 1 F 1 10mme)	
	1215 SKYLAND COURT	NORCROSS GA. 30071
	/eddress	BALLES BALL SECTI
2. Owner	TENNESSEE VALLEY	AUTHORITY
	A O O V I C V (name)	
	400 W. SUMMIT HILL	DRIVE KNOXVILLE TN.
3 Nama undekana and Sala	(address)	
rame, uddiess und idei	ntification of nuclear power plant WATTS BAR	NUCLEAR PLANT
_	P.O. BOX 2000 SPRING CITY	IN. 37381
i. System	CONTROL ROD DRIVE SYSTE	M 068
5. u: Component repaired, r		
	THE ROTTERDAM DCCKYARD C	O. ROTTERDAM THE NETHERLANDS
at identifying nos.		
	M.'s senating.) (Nat'l, i3d, Ng.) jurisdictional	nd.) 'Other) year burth
d: Construction Code $\frac{1}{2}$	ASME III 1971 WIN	ITER 72 N/A
2 - 2	1989 EDITION N/A	Code (Jaseis) .Code (Jasei
i. Section XI	1989 EDITION NIA	N/A
	(abhebbe abhebbe Code Case(s)	
Applicable edition of AS	ME Code Section XI lunder which repairs, modifications, or rep	stacements were made: 1989 D. N/A
3. Applicable edition of Co	onstruction (Code funder which repairs, modifications, or replace	iments were inade: ASME TIT 7/ MINTED 7
		Code
<ol><li>Casign responsibilities</li></ol>	N/A	Code) (noillion) addenda) Code Cuser
0. Tests conducted: hydro		N/A pa
cription at work_	REPAIR OF CROM CANOPY SE	EAL WELD
	(use of additional sheet(s) or sketch(es) is acceptable if	
	A MACCAUGING II	properly (dentified)
2. Remarks:	COMPONENT TO 1-06	8A-T173-13 (CRDMG-5)
		017-1113-13 (CRDMG-5)
<del> </del>		
	CERTIFICATE OF COMPLIAN	NCC
We certify that the statem	ients made in this report are correct and the repair, modifications and the National Board rules as defined in the available.	on or replacement of the stems described above goods and
	and idios as defined in the publication	INB-102, current edition. ()MW
Cartificate of Authorization	nino. NR 69 to use the "NR" stamp exp	ires NOV. 7 19 2001
Date MARCH 12 19.	99 Signed WELDING SERVICES INC.	- Om (1) (1)
,	(about ordanization)	avulm. Winte WSI QA/QC
·	, some significant	(title) (title)
	CERTIFICATE OF INSPECTION	CN
I the undersigned holdin	a a valid annual valid.	
issued by the state or ord	g a valid commission issued by The National Board of Boiler a	and Pressure Vessel Inspectors, and certificate of competency
of HART End CT have insc	ported the repair, modification or replacement describe in this	13 181 10
Sost of my Allowing de allo	John Will And I an	
Board rules as defined in	the publication NB-102, current edition. By signing this capitle	in accordance with Section XI of the ASME Code and the National rate, neither the inspector nor his employer makes any warranty
shall be liable in any man	iner for any personal injury or property damage or a loss of any	y kind arising from or connected with this increases
J/~19	37 Signed Bruce M. Earman C	Commissions TN 2534 NB#8333 T N A
	!Authorized Inspector	Nati.Bd.No.tinctuding endorsementalstate or province and number)

#### WC# 477-013542-607

- GRM N-1 MV T TURFIES II	isions of the ASHE Co	LC 1.881.1.8	RCPCRV
Manufactured by The Rotterdam Dockyard.	Co. Routerdas The	letherlands	
2. Manufactured for _Westinghouse_Electric C	brnpursn.p.O.Bo	x_155_Pittsburgh_	
3. Type Vert. Kind Tank Vessel No. ( (Horts, or Vert.) (Tenh.) aches: 1, Heat Re.)	(items one services	•	
3a. Applicable ASME Code: Section III, Edition 197			. Case No.
	(;ass	- <u>86080</u>	6KO126 (2)
Items 4-A incl. to be completed for single wall vessels.	jackers of jackered vess	els, of sheir of hest each	angers.
6. Shell: Material C1, 2 T.S.80.000 Thickne (Kind & Speec, No.) (Min. of range operation)			
5. Seems: Long	R.T	Filiciency	<del></del> "
Ginh Butt Weld H.r.' Yes  SA-533 Gr.B Cl.1	5 <b>1-</b> 53	13 Gr.B	
6. Heads (a) Material SA-508 C1.7.5. 80.000	Elliptical Contest	_	Side to Pers.
(Top, bottom, ends) Thickness Radius Reilius	Reito Anna Angle		
(a) Top 6.9" 7'4" 5.6" 7'4"	FILMED	FROM BUSE 13'11 ABLE GODY 14'5	<u> </u>
SA-540 Gr. B24 1	30.000 pst. AVAIL	ABLE GORY 141.5	<del></del>
fremovable, bolts used 6.75" ( 5.1 DCT (Material Spec. No.	., F.S., Slav, Number)	Other fastening (Descri	be or etrech skerth
Jacket Closure (Describe as ones	h weld, her, etc. li ber give	dimensions, describe or ske	ich)
,	Drop Teightman 12	P Preumatic , ft-15 Hydrostatic or	Test
8. Design Pressure 2485 pai at 650 cf at	temp. of LANK 10	°F. Combination Min.temo.rea.	Pressure 3107 311
Items 9 and 10-to be completed for tube sections.		Actual temp.	usel liviti ziz K <del>elenis-lizit</del> za
9. Tube Sheets: Stationary, Waterial (Kind & Spec. No.	Dia. in. [ ) (Subject to press.)	hickness in. Attac	(**ided, Divised)
Floating. Material (Kind & Spec. No.	Diain. T	hicknessin. Attac	hment
	inches	Number	Type
10. Tubes: Marerial O.D. in. Thick	or gage _	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	C se adjieut)
Items 11 to 14 incl. to be completed for inner chamber	s of jacketed vessels, or	channels of heat exchange	
(Kind & Spec. No.) (Min. of range specifies	messin. Allowance_ o		Crosinicic.
12. Seams: Long 11.T.1 (Yes	R.T.	Efficial cy _	TO THE THE
GirchR.T.1			12
13. Headar (a) Marerial T.S (b)	Metecial T.S.	(c) Marecal	711 7.5.7
Crewn Knucki Location Thickness Redius Redius	e Elliptical Cominal  Ratio Apex Ana	Hemispherical Pla	ter (Convex or Section)
(a) Top, bottom, ends	3-15-15-1-86		
(b) Channel	ARD SUPERETAINEL	<del></del>	
(c) Fluetian			
If removable, bolts used (a) (Material, Spec. No.; T.S., Size, Number)	Drop weight	Pacumetic ,	evide of the ten savings
14. Design pressure pai at of a	Charpy Impact	felb Hydrostatic or }	Test Pressurepri

#### 2002 # 911-013542 3632

						WAT-11	0 ×
			FORM NA	(back)	. )	75070	r.J
ms below to be compl	ered for 11 s	essels ober	prio able.				
5. Salety Valve Quilet	ar Sumber	ς:				· · · · · · · · · · · · · · · · · · ·	
i. Nozeles:		···		1.0636100			<del></del>
Purpose (Iniet, Guilet, Orain)	Yunber	Dia. or Sire	T = p =	Material	Thichean	Reinforerment	Hew
inist	4	27_41"			11 5"	Meteriet Tereoral	
Outlet	1	28-22	_ Fu_lpen	-a	8_7"	_Integral	_welden
		<del></del> _				·	
Sea attachmen	-	e:	•				
Overious Hardhole							<del></del>
		Size					
						Nozzle bod	les 13,1
Tupports: Skirt	Luge	·1.	(Number)	Other _4. 0	ade . Ausr	hed 15,17,14465	ering
<b>,</b> •	, e	(NUMBET)	( (diluiper)	;u.	ocite)	( A )	(fa = )
Remarks;	· ·	<del></del>		<del></del>			
	·	· · · · · · · · · · · · · · · · · · ·	<del></del>		<del></del>		
						<del></del>	- <del>دن الاران</del>
							্ত হৈ
		, etef desceiption	on of service for	which seems	an dealghed)		
		CE	RTIFICATIO	N OF DESIG	·	·	7
Design information of	in (11e -1 _7]					emestands	
						-Hatherlands	
Dealen erecification	e centiled by.	L_9Kat	<b>:</b>		. Prof. Eng. Stat	tlach Pare No.	Q4478-E
Stream analysis repr	if enilled by						_
Ve certily that the a oldhe, ASME Code	statements :	made in this rep	off are correct	and that this	ושילאולים	ALTICK TYCKELD F ZISTA	Constitut
a olahle, ASME Code	Acction III.	* The Rott	erdam Doci	syard Co.	£		;
/		Signedt	Mercher Mercher Mercher	- Harwijnan	Managar	-mattry and	<del>}</del> }
Except that the	vesser	is not				Montantanticity of	1
						100131(6:30)	
		CERTH	TCAT. OF S	HOP INSPEC	CTION		
VESSEL MADE BY	The Post	erdam Docky	wrd_co_ra	akterdan I	he Metherl	.ande	
I the understaned. >-	ol. <del>Long </del>	<del></del>	مصدد تحرجت ساط خرم	لانده الكرايم والمحمد الأسلم	محر و و و اثر است مست	London Englan	dar than Flata
							<u>.d</u>
have inspected the pre-							O end
Code, Section III. E			e bia employee				
vessel described in t	hio March	AL 0. Dott galen	1. Fuithermore,	notther the last.	ctor nor his emp	lover shall be lishin to	u euk meuunt
Dote	1088514	م مامه دست مهمیده کار	Any kind orioin	g from or connec	cted with this ine	pection.	
Doteindicately		<u> </u>	767				
- Iner	COP' F S NE PROCES		- CO-		National Board,	State, Province and N	o
	#	****					
. (	107	1 F 2 () A = //	OF FIELD				
I, the understaned, h	, ,		ed by the Kattun	el Board of Buil	ler and Pressure	Vessel Inspectors and	/w the State
here separed the el	Intrments M (	end employed by _ Ne Menufacturer	r Data Report w	Ith the describe	d pressure vesses	and state that parts r	elerred to as
data Item	<u></u>				•	certificate of shop ins	

5 m e	 11	·

		FORM NIS-2 OWN As Required	NER'S REPORT FOR I by the Provisions of	REPAIRS the ASME	OR REPLACEM Code Section XI	ENTS		
1. Owner	TENNE	ESSEE VALLEY AU	THORITY	Date	3-18.99			
400 W. Summit Hill Drive, Knoxville, TN Sheet of								
2. Plant	Watts	Address Bar Nuclear Plant		Unit U	nit 1			
Р	. O. Box	2000, Spring City, T	N, 37381	wio –	98-0079	اما -	203	
3. Work Pe	rformed	Address  Dy TVA MECH	Mads	Type Cod	Q Q - 0079 Repair Organization P e Symbol Stamp	.O. No.,	Job No., etc.	
70.Box	2000	SPRING CITY Address	TN :37381	Authoriza	tion No	Λ	I/A	
·	,			Expiration	Date		Л	
4. Identifica	ition of s	system ICE	CONDENSER	/sys	#061		3	,
(b) Appli	icable E	dition of Section XI L	CONDでいること SMで、SECT 正 19 71 Itilized for Repairs or ed or Replaced and F	Replacem	ents 1989	- 1/A	146 6/8/9 4/16 COO	le Case
		Jomponents (Cepan)	- Treplaced and P	Replaceme	The Components	<del></del>		ASME
Name of Cor	mponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	Code Stamped (Yes or No)
1-PIPE-06	61-B	MA	N/p	N/H	N/A	1999	REPLACEMENT	- No
	<del></del>							
7. Descript	tion of V	Vork NOD 2 4	THE TO REA	ET STU	YPASS LIN	DE A	41 <del>2</del> 00110	
		d: Hydrostatic 🗆 Pi	le I · Ø I 2 Z neumatic ☐ Nomina sure <u>70 - 70</u> psi	al Operating	g Pressure 🗶			
į ir	1., (2) in	formation in items 1	of lists, sketches, or through 6 on this rep f sheets is recorded a	ort is includ	led on each sheet	ded (1 , and (	) size is 8½ 3) each she	in. x 11 eet is

	FORM	NIS-2 (Back)	
9. RemarksCOPE	CASE N-416-1		
TRACKING NO. 1	<u>CASE N-416-1</u> Applicable Manufactu 97-02-93	rers Data Reports to be Attached	
	CERTIFICAT	E OF COMPLIANCE	
We certify that the stateme	ents made in the report are	e correct and this Rea	CACFUENT conforms to the
			replacement
rules of the ASME Code,	Section XI.		
Type Code Symbol Stamp	, N/A		
Certificate of Authorization			The state of the s
01 0 /	/ <del></del>		
Signed Whiches	Owner or Owner's Designee Ti	T. ENGR - Da	ate <u>3/20/99</u> 19 <u>99</u>
	CERTIFICATE OF	INSERVICE INSPECT	TION
I the content to the later			
			of Boiler and Pressure Vessel
of Haster	or Province of Tennessee of CT. have	and employed by	A-O LEL CO.
		and the second s	
			and state that to the best of
	cordance with the requirem		n corrective measures described in
			warranty, expressed or implied,
			ner's Report. Furthermore, neither
			al injury or property damage or a loss
	connected with this inspe		arinjury or property damage or a loss
,ggg			
Bru M. E.	Commissions	T.12524	" " " " " " " " " " " " " " " " " " "
Inspector's Signati	ure Commissions	National Board, State	T" "\" '\A'' e, Province, and Endorsements
Date <u>3/</u> 20	19 <i>99</i>		

. ij,

		FORM NIS-2 OW As Require	NER'S REPORT FO d by the Provisions o	R REPAIR: f the ASME	OR REPLACES Code Section X	MENT	S	
1. Owner	TENNI	ESSEE VALLEY AL	JTHORITY	Date	3/20/	79		
400	0 W. S	ummit Hill Drive, Kı	noxville, TN	Sheet	of	<u> </u>		
2. Plant	Watts	Address Bar Nuclear Plant		Unit U	nit 1			
P.	O. Box	Name c 2000, Spring City,	TN, 37381	_ ₩	98-0019	- اما	202	
3. Work Pen	formed		2004	Type Cod	Repair Organization Pe Symbol Stamp	.O. No.	, Job No., etc.	
70, Bcx 2	ک ∞ہ	PRING CITY TTV	1ame 37381	Authorizat	ion No		N'A	
,		Address	_	Expiration	Date			
	4. Identification of system The Condenser Systole 1							
(b) Applic	able E	dition of Section XI	ME SECT III 19 7/ Utilized for Repairs of red or Replaced and	r Replacen	nents 1989	-/A	<u> </u>	de Case
Name of Comp	ponent	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-061	-B_	P/A	N/A	N/A	NIA	1999	REPLACEMENT	Иd
						<u> </u>		
	<del></del>							
7. Description	on of V	Vork ADD 2'6	Tहर To तरक्षाह	BUPASS	PIPE AROUN	-ر ۵	FCU-061-	0097
8. Tests Cor	nducte	d: Hydrostatic 🗆 P Other 🗈 Press	neumatic □ Nomina sure <u>70 - 80</u> psi	al Operating Test Tem	p Pressure K p <u>10</u> °F			
] 111.,	, (∠) mi	formation in items 1	of lists, sketches, or through 6 on this rep sheets is recorded a	ort is includ	led on each shee	vided ( et, and	1) size is 8½ (3) each sh	½ in. x 11 eet is

j j

FORM NIS-2 (Back)
9. Remarks CODE CASE N-416-1
9. Remarks CODE CASE N-416-1  Applicable Manufacturer's Data Reports to be Attached  12 ACKING NO. PR-02-94
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this <u>PEPLACEMENT</u> conforms to the
repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No.
11
Signed Muchael Barrer Const. RNGR. Date 3/20 19 99
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 Teluvessee and employed by HSB IET co.
of HarTFord CT have inspected the components described in this
Owner's Report during the period $\frac{j2/4/18}{}$ to $\frac{3/20/99}{}$ 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 Earningh Commissions TN 2534 T N "A"  Inspector's Signature National Board, State, Province, and Endorsements
Date

	FORM NIS-2 OWN As Required	ER'S REPORT FO by the Provisions (				
1. Owner TENNE	ESSEE VALLEY AU	THORITY	Date	3/23/99		
400 W. S	Name iummit Hill Drive, Kr	noxville, TN	Sheet	of	, 4, -	
2. Plant Watts	Address Bar Nuclear Plant		Unit Un	it 1		
P. O. Box	Name c 2000, Spring City,	TN. 37381	4/0	98-00249	41-007	
3. Work Performed	Address	٠.٠٠٠		lepair Organization P. Symbol Stamp		etc.
	A1	ame	Authorizati		<del></del>	
3 m 800 51	Address	<i>7w</i>				
4. Identification of	system (	UATER + PX	•	Date NA	<u> </u>	
(b) Applicable E	Construction Code  Edition of Section XI  Components Repair	19 7 Utilized for Repair	S or Replacen	73 Addenda	. <u>N/A</u>	Code Case
Name of Component	Name of Manufacturer	Manufacturer Serial No	National o. Board No.	Other Identification	Repai Year Replace Built Replace	ed, or (Yes or ement No)
STUDS	WESTING HOUSE	NA	NA	Secondary Cour	Replace	sed Nb
		·				
Machining	Westwstowse	1592	W10287	1-SGBN-Obb SG3	25 Repair	Yas
7. Description of	Work REPLACE	STUDS ON	S/G MW	Cover, Sc	<del>3</del>	
8. Tests Conduct	ed: Hydrostatic 🗆 F Other 🗆 Pres	Pneumatic  Non	ninal Operatir psi Test T	ng Pressure & emp	/- <i>721-3-</i> °F	903
11 in., (	mental sheets in form 2) information in iter pered and the numbe	ns 1 through 6 on t	his report is i	ncluded on each		

FORM NIS-2 (Back)
9. Remarks
TRACKING NO. RR-02-96296 3/23/99
·
•
CERTIFICATE OF COMPLIANCE
D D
We certify that the statements made in the report are correct and this $R \neq R$ conforms to the repair or replacement
rules of the ASME Code, Section XI.
Type Code Symbol Stamp None
Certificate of Authorization No.
Signed THO Willing Mach Eng Date 5/19 19 99
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 IFI CO.
of HATT Ford CT. have inspected the components described in this
Owner's Report during the period $3/23/99$ to $5/25/99$ 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"  Inspector's Signature National Board, State, Province, and Endorsements
Inspector's Signature National Board, State, Province, and Endorsements
Date

1 If Protorid Heat-Treated

and the state of t

with Ball At C pu

HARD COPY RETAINED

	FORM NIS-2 OWN As Required	IER'S REPORT FOR by the Provisions of	REPAIRS the ASME	OR REPLACEM Code Section XI	ENTS	3	
1. Owner TENNE	ESSEE VALLEY AL	JTHORITY	Date (	03-25-99			
400 W. S	Name ummit Hill Drive, K	noxville, TN	Sheet	of			
2. Plant Watts							
P. O. Box	Name ( 2000, Spring City,	W/0 99-03451-02					
3. Work Performed	Address  By WBNP MECH	. MAINT.	Type Co	Repair Organization P de Symbol Stam	.O. No.	, Job No., etc.	
P.O. BOX 2000 S	PRING CITY ,TN :	Name 37381	- Authoriza	ation No N/A	_	······································	
	Address		- Expiratio	n Date N/A		<del></del>	
4. Identification of	system 003 - AU	X. FEEDWATER					
5. (a) Applicable C	Construction Code	AISC N/A	STEEL C Edition,	ONSTRUCTION Addend	MAN a, N/	IUAL A Co	de Case
(b) Applicable E	dition of Section XI	Utilized for Repairs	or Replacer	ments 1989	-		
6. Identification of	Components Repai	red or Replaced and	Replaceme	ent Components			
Name of Component	Name of Manufacturer BERGEN	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
03A482U	PATTERSON	13393	IN/A	IN/A	N/A	REPLAC ED	No
1.287850 07848517	BERGEN PATTERSON	/5591	ALA	SPHERICAL BERRING	MA	Respect.	מא
Replaced 5	pherical T	earing And a	and P	n.			
7. Description of V	Vork REPLACED S	SPHERICAL BEARIN	IG AND LO	AD PIN	<u> </u>	1	
NOTE: Supplem 11 in., (2	Other X Pres 1-TRI-0-7 ental sheets in form ) information in item	Pneumatic  Nomin Sure psi psi of lists, sketches, or its 1 through 6 on this rof sheets is recorde	Test Ten	np°F may be used, pro	vided sheet,	(1) size is 8 and (3) eac	I½ in. x ch sheet

	FORM NIS-2 (Back)
9. Remarks	TRACKING # RR-02-095 216 Johg
	Applicable Manufacturers Data Reports to be Attached
	CERTIFICATE OF COMPLIANCE
	at the statements made in the report are correct and this REPLACEMENT conforms to the repair or replacement
Type Code Sy	ymbol Stamp
Certificate of	Authorization No/UA
Signed	Owner or Owner's Designee, Title  Date 4-7- 19 99
	CERTIFICATE OF INSERVICE INSPECTION
I, the undersig	gned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and	d the State or Province of and employed by
of Har	have inspected the components described in this
Owner's Repo	ort during the period $3-25-99$ to $47-99$ and state that to the bes
of my knowled	dge and belief, the Owner has performed examinations and taken corrective measures describe
in this Owner's	's Report in accordance with the requirements of the ASME Code, Section XI.
	s certificate neither the inspector nor his employer makes any warranty, expressed or implied,
concerning the	e examinations and corrective measures described in this Owner's Report. Furthermore, neithe
the inspector i	nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kir	nd arising from or connected with this inspection.
Mes	Commissions
Inspe	ector's Signature National Board, State, Province, and Endorsements
Date	



BERGEN-PATERSON

PIPESUPPORT CORPORATION
Moulton, AL Tel. (205) 974-9225

Certificate of Compliance

	~ ~ * * * * * * * * * * * * * * * * * *
TENNESSEE VALLEY AUTHORITY	
MAN TO THOUSE IT	Date November 17, 1
400 West Summit Hill Drive	

400 West Summit Hill Drive

Knoxville, TN 37902

Attention: Accounts Payable

Subject Plant: Watts Bar Nuclear Plant

Purchase Order Number: 78KA2-824160 RD #103885

8-PPC Job Numbers 8506-3671

ITEN NO.	qTY.	PART SIZE .	DESCRIPTION
2	10	1000 4	Restraint End Connection
14	10	6202-1.5 6"	Restraint Pipe Clamp
15	10	2600-7 8"	Pipe Clamp
16	5	2600-10 8"	Pipe Clamp
17	10	6202-1.5 8"	Rostraint Pipe Clamp
24	6	6202-12 18"	Restraint Pipe Clamp
29	5	6202-7 24"	Restraint Pipe Clamp
48	20	6502 10"	Long Tangent U-Bolt

#### Gentlemen:

BERGEN-PATERSON hereby certifies that all fabricated and manufactured hanger material furnished on the subject contract is in accordance with the design, material, fabrication and testing requirements of the applicable code or codes and job P.O./Specification. The documents which support compliance to subject code requirements as identified in the Bergen-Paterson Corporate G.A. Manual have been reviewed and ero considered correct and complete as valid Q.A. records.

Reference: Codes <u>B31\_1N. MSS-SP-58. 10 CFR 50. 10 CFR 21</u>

Specification: <u>P.O.</u>

Shipment of: 11/17/89 BA #: M-8126 Win.

BERREN-PATERSON PIPESUPPORT CO.

Quality Assurance

مطلعوه في الماد

12

BERGEN-PATERSON

JOB #: 8506-3671 B/L #: M-8126 SHEET 2 OF 2

i				
ITEM	OTY.	PART	SIZE	DESCRIPTION
54	20	6202-1.5	2"	Restraint Pipe Clamp
35	25	6202-1.5	3"	Restraint Pipe Clamp
56	75	2252	1.5	Field Welded Adj. Strut
57	75	2252	4	Field Welded Adj. Strut
58	50	2252	12	Field Welded Adj. Strut
72	20	2200	10	Rigid Shock & Sway Arrestor
				·
	-			
			<b></b>	
			<del> </del>	
			-	
		<del>-  </del>	<del> </del>	
		<del></del>	+	
			-	
	-			
· · · · · ·				
	-			

BP-QC-0003

1. Owner	TENN	NESSEE VALLEY A	d by the Provisions of			o de cris escablaca.		
40	00 W.	Name Summit Hill Drive, H	Knoxville, TN	Sheet	3/29/9	4		
2. Plant	Watts	Address Bar Nuclear Plant		-				
Ρ.	O. Bo	x 2000, Spring City	, TN, 37381	N.O	98-00/10	21/		
3. Work Per	rforme	d by WATTS 13	9 R NUCLEAR PL	Wype Cod	98-0049 Repair Organization de Symbol Stan	79- 72.0. No 70	004 D., Job No., etc. None	
20.Box	200	OO SPRING C. Address	1TY TN. 37371	Authoriza	ition No	NON		
. Identificat	, tion of	system		Expiration	n Date	NA		
		_0/3	STEAM GE	NERAT	OR BLOW	Dou	N	
		. =	Sect III 19 7/ Utilized for Repairs red or Replaced and	or Replace	ments 1989	}	44-7 Co	de Cas
Name of Comp		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Buit	Repaired, Replaced, or Replacement	ASMI Code Stampi (Yes o
400612	7 2	PSA	33070	NONE	NONE	83	REPLACE	No)
<del></del>							•	
·				•			-	
								-
		·						
								<del></del>
								· · · · · ·
Description	of W	ork REPLAC	E SNUBBE	P				
	fucted:		ieumatic ⊡ Nomina			NR		

is numbered and the number of sheets is recorded at the top of this form.

FORM N	FI NPI CE	m . Beautains		ie wai				
i	d bearinges as	ah ma kicaision.				abaim	~ 92903	
	Pacific S	cientific 124	13 S. S. 313C	e Collas	Certificate moide	11 12 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>	
MISCINISC DA		ell Corporati	ion 621 Day	væitæ,	t N.E. War	en, Ch	io 44431	
rulecturer la	Lili, Cerni	en wixia	(fiame and ac	ddrm. of ou		w)		
-	•	. <u> </u>	Unkno			· •	•••	
cation of Inst	SUSTINGUE		<b>.</b> .	•		(T)	` <b>(</b> )	<i>(</i> 20)
ntification fal	. <b>6</b> )	(e)	ld) Stress ?		(a) Type of	;···		
mponent	Canadian , Registration	Roclicable Drawings with	or Load	Cace-	Companent	Cas	Nat'l Board No.	Year Built
Support L.D. No.	No.	Len Rev & Os	te city Dat		Support		1:22	1983
33070	lione	1801104-05-7	Dr1412 i	ren. U	المرابل المراب	<u> </u>		
thru		<u> </u>		и	H .\			X
33294						6077	LKC89	1-14
					$\mathcal{W}_{\mathfrak{g}}$	00/2	11.000	
				HARD (	COPY REJAIN	ED		
								·
								• •
Ramarkt:	retion s	rest Remorts, 20 III 1974 E	OTR's & Mision, S	ri Certi	ficate of	Conformand Cox	rance ravie la Casa 154	Med erd 4-0.
		· ca	RTF.CATE S	or contr	CIANCE Components tup	∞arts canf		of construction
cartily that	the statements ode for Nuclear	CE made in this report Power Plant Compo	RRECATE Correct and	OF COMP d that these III, Division	CIANCE components sug	oparis cant	form to the rules	
cartify that the ASNE Code Case No.	the statements ode for Nuclear	made in this report Power Plant Compo Pacific S	RTS.CATE Correct and names, Section Correction	OF COMP d that these III, Division	CIANCE components sug	oparis cant		of construction
cartify that ihe ASNE Code Case No.	the statements ode for Nuclear	made in this report Power Plant Compo Pacific S	RRF.CATE Correct and nears, Section Correction Correction Correction Corrections and Correction Corrections and Corrections an	OF COMP d that these III, Division	CIANCE components sug	oparis cant	form to the rules	of construction
cartily that ihe ASNE Code Case No.	the statements ode for Nuclear , 1644-7	made in this report Power Plant Compo Signed Pacific S (NA	RTS.CATE Correct and names, Section Correction	OF COMP d that these III, Division	CIANCE components sug	operts conf 977 - A M/11 / TATE	form to the rules deemda	of continuation (O at a)
cartily that in ASNIE Code Cise No.	the statements ode for Nuclear, 1644-7	made in this report Power Plant Compo  Signed Pacific S  (NP)  orization No.	RRF.CATE Correct and nears, Section Correction Correction Correction Corrections and Correction Corrections and Corrections an	OF COMP d that these III, Division	CIANCE components sug	operts conf 977 - A M/11 / TATE	orm to the rules deemed	of continuation  that 173  (Out-)
cartily that in ASNIE Code Cite No.	the statements ode for Nuclear , 1644-7	made in this report Power Plant Compo  Signed Pacific S  (NP)  orization No.	RRF.CATE Correct and nears, Section Correction Correction Correction Corrections and Correction Corrections and Corrections an	OF COMP d that these III, Division	CIANCE components sug	operts conf 977 - A M/11 / TATE	orm to the rules deemed	of continuation (O at a)
cartily that che ASNE Code Cise No.	the statements ode for Nuclear, 1644-7	made in this report Power Plant Compo  Signed Pacific S  (NP)  orization No.	RRF.CATE Correct and nears, Section Correction Correction Correction Corrections and Correction Corrections and Corrections an	OF COMP d that these III, Division	CIANCE components sug	operts conf 977 - A M/11 / TATE	orm to the rules deemed	of continuation  that 173  (Outs)
cartify that the ASME Code Case No. 10 / 3 / 4 / 5 / 4 / 5 / 4 / 5 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6	the statements ode for Nuclear, 1644-7	made in this report Power Plant Compo Signed Pacific S (No orization No.	REFICATE Corrections  really, Section Scientific  1193	OF CONF d that these III, Division	CIANCE  components tuc  1. Edition 1	operts conf 977 - A M/11 / TATE	orm to the rules deemed	of continuation  that 173  (Out-)
cartily that the ASME Co de Cise No. 119 1/3/ ur ASME Cere rembal expire Design Inform	the statements ode for Nuclear 1644-7  Stifficate of Authorities 200 at 100 at	made in this report Power Plant Compo  Signed Pacific S  (NA  orization No	RTIFICATE Corrections  nears, Section  defentific  1193  CERTIFICAT  contidic	OF CONF d that these III, Division	CIANCE  components tuc  1. Edition 1	operts conf 977 - A M/11 / TATE	orm to the rules deemed	of continuation  that 173  (Out-)
cartily that the ASME Care Manager ASME Care mode expired to the Care m	the statements ode for Nuclear 1644-7  Stifficate of Authorities at 10 a	made in this report Power Plant Compo Signed Pacific S (No orization No.	RTIFICATE Corrections  nears, Section  defentific  1193  CERTIFICAT  contidic	OF CONF d that these III, Division	CIANCE  components tuc  1. Edition 1	mirra	orm to the rules deends	of continuation  to 173  (O sie)
cartily that in ASME Care Manager ASME Care model expire control of the Care Report ACISIC STATES	the statements ode for Nuclear 1644-7  Stifficate of Authoritism on File at a toad Capacitism 23256	made in this report Power Plant Compo  Signed Pacific S  UNP  Orization No	RTIFICATE Corrections  nears, Section  defentific  1193  CERTIFICAT  contidic	or control d that these itt, division derse. to use	CIANCE  components tuc  1. Edition 1	Sorts conf	orm to the roles deends Frince NPT)  FILMED FF AVAILABI	of continuation  to 173  (O sie)
cartily that the ASME Care No. 110 / 120 /	the statements ode for Nuclear , 1644-7  (C3  tificate of Author (Oatt  or toad Capaci cichtific (CA 3256)	made in this report Power Plant Compo  Signed Pacific S  UNP  Orization No	REFICATE Correct and nears, Section in Controlled 1193  CERTIFICATION CONTROLLED CONTROL	or control d that these itt, division derse. to use	components such the transfer of the transfer o	Sorts conf	NPTI FILMED FF AVALLABI WETER TIME	Of continuction 173 - 17
cartily that the ASME Co de Case No. Ite //3/ It	the statements ode for Nuclear 1644-7  Stifficate of Author 1041  Aug. 4, 1  1041  Total or Load Capaci Scientific 13533	made in this report Power Plant Compo Signed Pacific S Orization No	REFICATE Contest and names, Section Rejentifical 1193  CERTIFICAT CONTEST HOLD 1193  CERTIFICAT CONTEST AND CONTEST CO	or control there itt. Division to use to use to use to use the item.	CIANCE  components such  t. Edition	Sorts conf	NPTI FILMED FF AVALLABI WETER TIME	of continuation  to 173  (O sie)
Cartily that the ASME Co de Cise No. The Market Care grade espire grad	the statements ode for Nuclear 1644-7  Stifficate of Author 1000  1000  1000  1100  1100  1110	made in this report Power Plant Compo  Signed Pacific S  UNP  Orization No	CERTIFICATE  CERTIFICATE  CERTIFICAT  CALLEGE  LEO E. My	OF COMP d that these HIT, Division HERRY TO US	CIANCE  components such  t. Edition	Sorts conf	NPTI FILMED FF AVALLABI WETER TIME	Of continuction 173 - 17

### FORM NF-1 (Back)

•	CERTIFICATE OF	MOP INSPECTION	•	
	and employed by LISI		Practice Vessel Inspect	ors and the State or
t she undersigned, holding a valid	and employed by HSI	nal Board of Solier and	of Hartford,	CT.
. (510			. U41 L	
- TOWN CO	nave inspected the component support in the land of th	orts described in this consti	ructed these component t	upports in accordance
	( WA FUGMISGES AND DELICE THE	Summers worder was comme		
and Cade for Nuclear	, O4461 - 10-11 1			
•			ressed or implied, conc	erning the component
By signing this certificate, neith	er the Inspector nor his employer	e loconcial agrais ema	player shall be liable in	1 30% Wacuet jot 30%
supports described in this Data	er the Inspector nor his employer Report, Furthermore, neither th mage or a loss of any kind aris	ion from or connected	with this inspection.	
personal injury of property da	mage or alleas of any stind area		•	ţ
•				
Care	difficulty of	₹.	:-12/-1	Commission
	11/1/1/	commission Crif-	5/3/ Opio	and No I
Signed	The state of the s		(Nat'1,3d., 51ate, 1100.	
	CERTIFICATION !	OF FIELD INSPECTIO	241	
	•		- verial loss	sectors and the State or
habandening a bolding a	ralid commission issued by the N	itional Sourd of Boiler a	nd Pressure Vesser	
Province of	and employed by		in described compon	ent tupparts and state
ha	ve compared the statements in	this Data Report with th	a cestificate of shop	inspection, have been
in the parts relevied to a	ve compared the statements in significant statements in significant statements and selled the season selled the selled th	not included in the	e certainage de man	anent supports in accord
I was maked that to the	pert of my knowledge and perior		2 Court oct o	
in the active Code los	Haciest bower bigue company			•
\$			secured or implied, co	incervius the companen
eu signing this cartificate ne	ther the Inspector nor his employ a Azona. Furthermore, neither the	ice wares any warranty.	a shift he liable in ant	manner for any persons
			it firms of the	
injury of procedir Camage or a le	ess of any kind arising from or connec	led with this inspection.		
		·		
Care	<del>-</del> ·			
	*	Commissions		
5:oned		_ Committions	(Nat'l Bd , State, Pr	o and 75.1
Carlos de Carlos			•	
	,	,		•

PAGE 183 OF 187

181
30 28
GE 18
AG

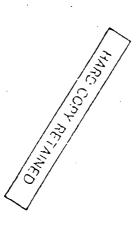
1. Cwner TENI	NESSEE VALLEY A	UTHORITY	Date	3-35 65			egare Sourier St.
400 W.	Summit Hill Onve, H	Cnoxville, TN	Sheet	3-25-99	<del></del>		
	Address s Bar Nuclear Plant			of	<del></del>		
P. O. B	Name ox 2000, Spring City	TN 27204	_	Jnit 1			
			و/ المان	98-00497	4-0	0.3	
2. WOIK HEIRORME	Address ed by WATTS BAR No	uclear flat	Type Coo	Repair Crganization te Symbol Stami	P.O. Na J	., Job No., etc.	
0.0.Bux 2000	SPRING CITY TN	1. 3 738/	Authoriza	tian Na		N	/
	1		Expiration	1 Date	<del></del>		
I. Identification of	f system	STEAM GINE	ates D	iandina			
i. (a) Applicable	Construction Code	AISC 19 MA	EC/ CONSTI	EUCTION MANU.	44,		
	Edition of Section $X \overline{I}$	Utilized for Repairs	e Bankson.	N/A Addend	a. —	N/A Co	de Casa
i. Identification of	Components Repai	red or Replaced and	Replacem	ent Camponents			
							ASME
						Repaired.	Code Stampe
-SNUB - 015	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year	Replaced, or Replacement	(Yes or
1006199	PSA	33262	NONE	SNUBBER		Replaced	No)
			<u> </u>	1			
							el.
				1			
			İ		1		
					`		
Description of V	Vark Replaced	! SNUBBER					
	d: Hydrostatic $\Box$ Pr	ラベルカレミス neumatic こ Nomina ure	al Operating Test Te	Pressure I	F		

FORMINIS-2 (Back)
9. Remarks
TRACKING # RR-02-101 266 4/2/99
AR 22.121 REC 4/1/49
CERTIFICATE OF COMPLIANCE
<b>1</b>
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.
igned DI- Collins Mech Engr Date 4/12 19 95
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 Texas seed and analysis to the state of Province of Texas seed and analysis to the state of the seed and the state of the seed and the
have inspected the components desired
Cwher's Report during the period $\frac{3/25/79}{\sqrt{3/25/19}}$ to $\frac{4/12/79}{\sqrt{3/25/19}}$ and state that to the hoof
of my knowledge and belief, the Owner has performed examinations and taken corrective measures described
and the 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 Cwner'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.
Inspector's Signature Commissions TN 2534 T''N" "A"  National Board, State, Province, and Endorsements
Date 4/12 19 99

						FOR C	ion III. C	IVISION 3		عربر- "م
1. Manufactured	y Pacific	Scientifi	- 1243 La 1243	S. STate	ರು!1ecc	31	Zanhai.			
Manufactures In	III Gir	meli Co-	~~;-~	Name and midre	SE OF MPT C	ertificate no	Gerl Gerl	z, Cz.	92803	
Manufacturer Id	· ·	301	(5.	ieme and address	or cet	N.E. R	rren, d	كثناه	44481	
I Location of Inst	affation	· · · · · · · · · · · · · · · · · · ·		Tribacua	. •	14147 OF Gw	ner)			
4 Identification			• ·					•	<u> </u>	
Component	Canadian ,	Apolio	e) Cable	(c)	-	<b>(a)</b>	m	· · · · · ·		
Support LD, No.	Registration No.	Drawing Lett Ray	is with	Stress Repo or Load Cap city Data She	+ c	Type of mponent		Nat7	•	Cr.)
(1) 33070	None	1801104-	رع ت-30	-1412 Per.		Support	Cen		o.	Year 5
cn thru 33294		4				Linge	= 1		<u>===</u>	1991
(4)			<del></del>		a .				Vhe	- 5 0
(5)						10	COT	2/40	004	-5-8
(6)					-	Ag 0	0072	LANO	031	14
(71 <u>/</u>						$-\omega s$	60%	1441	745	
(3)				Hat					,,0(	1
[10]						RELAINE	'			
Remarks: The	وعصينوس	st Report	s, co	's and Car	-+:-:	** ** ** **				
rce	t MARC SEC	III 1974	MIETO	i's and Car n, Summar	75 76	deres a	ontorna	rce ra	71676G	ard
							س کند	2 (Z.SS	T 24 4 -0	•
y certify that the line ASME Code to	statements mad or Nuclear Pow			TE OF CON			rts canton	m to the r	ules of co	nttructi
Date 1/3/83	Signa	or Mant Comp or Mant Comp or Mant Comp	enenii, Sce Scriontii Procenii	ct and that the Ition III, Divisi Eic		on197	Ada	m to the many States	inter_	nttructi 1-73
1/3/83	Signa	or Mant Comp or Mant Comp or Mant Comp	rive came anents, sce Scrienti:	et and that the stion III, Divisi		1971 D/M	119 /1	enda _V.	inter_	nttructi
ur ASAIE Certificat	Signer Signer Signer	er Plant Comp er Plant Comp (No	enenii, Sce Scriontii Procenii	et and that the stion III, Divisi	ue compon on 1. Editi	1971 D/M	Ada	Arriva	inter_	nstructi:
Out ASAIE Certificat	Signer Signer Signer	er Plant Comp er Plant Comp (No	enenii, Sce Scriontii Procenii	et and that the stion III, Divisi	ue compon on 1. Editi	1971 D/M	In la	FILMED	FROM BE	173 •!
or ASAIE Certificat	5igne of Authoriza	er Plant Comp	Scienti: 1193	ct and that the strong HI, Divisi	te compon on 1. Editi  by  se the	Con 197	In la	FILMED	inter 10 at	173 •!
ur ASAIE Certificat	5:gne e al Authorizal 1- 4, 1984 10ate)	# Plant Comp	Scienti: 1193	et and that the stion III, Divisi	te compon on 1. Editi  by  se the	Con 197	In la	FILMED	FROM BE	173 •!
ur ASAIE Certificate rembol expires 3119	5igne e al Authorizat 1- 4, 1984 (Date)	ific Scio	Scienti: Scienti: 1193	ct and that the strong HI, Divisi	te compon on 1. Editi  by  se the	Con 197	In la	FILMED	FROM BE	173 •!
ur ASAIE Certificate rembal expires 3129 assign Information of the Report or Load	5igna e of Authorizati 1-4, 1984 10atel	ific Scio	Scienti: Scienti: 1193	ct and that the strong HI, Divisi	te compon on 1. Editi  by  se the	Con 197	In la	FILMED	FROM BE	173 •!
ur ASLIE Certificat rembal expires 7119 resign Information of ress Report or Load Cific Scient led For	5:gne e of Authorizat  7. 4, 1984 10atel  10atel Capacity Cate ific	Sheets on File	Scienti: Scienti: 1193 CONTINIC	Stand that the stion III, Divisi Eico  The Molders  To y  ATION OF	te compon on 1. Editi  by  se the	Con 197	In la	FILMED	FROM BE	173 •!
ur ASLIE Certificate rembol expires 7119  resign Information of rest Report or Load Cific Scient 102 For 102 Ingra Socializations	5:gne e of Authorizat  7. 4, 1984 10atel  10atel Capacity Cate ific	Sheets on File	Scienti: Scienti: 1193	Stand that the stion III, Divisi Eico  The Molders  To y  ATION OF	te compon on 1. Editi  by  se the	Denis successor 197	In In	FILMED AVAILA	FROM BE	173 •!
ur ASAIE Certificate rembol expires 7119 cesign Information of cests Report or Load Cific Sciential Cod For 1000 cests Socializations of 13533	Signal Si	Pacific (None Sheets on File	Scienti: Scienti: Ficential 1193 CENTIFIC CENTIFIC	Ct and that the stion III, Divisi  Eig  The Molders  To u  ATION OF	DCSIGN	Denis successor 197	Gel it	FILMED AVAILA	FROM BE	173 •!
ur ASAIE Certificate rembol expires 7119  resign Information of ress Report or Load Cific Sciential For 122 Specifications of the Report of Load for 122 Specifications of the Report of Load For 122 Specifications of the Report of Load For 122 Specifications of the Report of Load For 122 Specifications of Load	Signal Si	Sheets on File	CENTIFIC  CENTIFIC  CENTIFIC  CENTIFIC  CENTIFIC  CENTIFIC  CENTIFIC	Stand that the stion III, Division III, Divi	DCSIGN	Denis successor 197	Gel it	FILMED AVAILA	FROM BE	173 •!
Arr ASLIE Certificate  Arr ASLIE Certificate  Arr ASLIE Certificate  Arr ASLIE Certificate  Arrange Information of the properties of the p	Signal Si	ific Scio  Sheets on File  In Pag. No.	CENTIFIC  CENTIFIC  CENTIFIC  CENTIFIC  CENTIFIC  CENTIFIC  CENTIFIC	Stand that the stion III, Division III, Divi	DCSIGN	Denis successor 197	Condition Warter	FILMED AVAILA	FROM BE	173 •!
Aur ASAIE Certificate  Aur ASAIE Certificate  Aur ASAIE Certificate  Aur ASAIE Certificate  Aur ASAIE Certificate  Aur Asaic Aurorition of the certific Aurorition of the certifications  August Analysis Report  State California Control  August Analysis Report  State California Control  August Analysis Report  State California Control  August Analysis Report  Augus	Signal Si	ific Scio  Sheets on File  Reg. No.	CCRTIFIC  CCRTIFIC  CCRTIFIC  CCRTIFIC  CCRTIFIC  CCRTIFIC	Stand that the stron III, Division III, Divi	DCSIGN  PE S  E. Ay	Con 197	Control Marie	FILMED AVAILA  JAN 1  EWED BY	FROM BE BLE COF	173 ST 123
ur ASAIE Certificat rmbal expires Aug rmbal expires Aug resign Information o ress Report or Load CIFIC Scient Loci For 100 1901 Socializations 1912 Analysis Report State Califo  pplemental shoot pplemental shoot	Signal Si	ific Scio  Sheets on File  Reg. No.	CCRTIFIC  CCRTIFIC  CCRTIFIC  CCRTIFIC  CCRTIFIC  CCRTIFIC	Stand that the stron III, Division III, Divi	DCSIGN  PE S  E. Ay	Con 197	Control Marie	FILMED AVAILA  JAN 1  EWED BY	FROM BE BLE COF	EST
Aur ASAIE Certificate ASAIE Certificate Asaign Information of the Colfic Sciential Per 1904 Specifications of the Analysis Report of State California Cali	Signal Si	ific Scio  Sheets on File  Reg. No.	CCRTIFIC  CCRTIFIC  CCRTIFIC  CCRTIFIC  CCRTIFIC  CCRTIFIC	Stand that the stron III, Division III, Divi	DCSIGN  PE S  E. Ay	Con 197	Control Marie	FILMED AVAILA  JAN 1  EWED BY	FROM BE BLE COF	EST

Province of	and employed by IISRICI CO  Ave Inspected the component supports described in the	and Pressure Vessel Inspectors and the State
<u>-</u>	Mare Inspected the	- of Hartiford, Cr
18 and state that to the best of	my inquiedae and hellers and a	Data Report on
with the ASME Code for Nuclear P	my knowledge and belief the NPT Certificate Holder has cilower Plant Components.	onstructed these component supports in accordan
By signing this certificate naither	the fearure	
supports described in this Para	the Inspector nor his employer makes any warranty, a eport. Furthermore, neither the Inspector ner his	expressed or implied concerning the compa-
personal injunt or property dam	eport. Furthermore, neither the Inspector nor his a age or a loss of any Lind arising from an appoint	molover shall be liable in any manner (a.
· ·	age or a loss of any hind arising from or connecte	ed with this inspection
Cate 121 C + 1020		
		•
ر بر ریجیس که ده د	affect to	
The second	Commissions CA-	15/3/ Ohio Commission
• ,/		(National State Plan and the
		201, 3000, 0000, 0000, 000
		· · · · · · · · · · · · · · · · · · ·
	CERTIFICATION OF FIELD INSPECT	
	CERTIFICATION OF FIELD INSPECTION	ON
, the undersigned, holding a valid		
, the undersigned, holding a valid leavince of	commission issued by the National Board of Bosler a	and Pressure Vessel Inspectors and the Stare -
have co	commission issued by the National Board of Bosier a	and Pressure Vessel Inspectors and the State o
hat the parts referred to as the	commission issued by the National Board of Boiler a and employed by mpared the statements in this Outa Report with the	and Pressure Vessel Inspectors and the State of
hat the parts referred to as data percied as me and that to the cest of	commission issued by the National Board of Bosler a  and employed by  mpared the statements in this Oata Report with the a items  I make a property in the National Board of Bosler a	and Pressure Vessel Inspectors and the State of
nat the parts referred to as data percent as me and that to the cest of	commission issued by the National Board of Bosler a  and employed by  mpared the statements in this Oata Report with the a items  I make a property in the National Board of Bosler a	and Pressure Vessel Inspectors and the State of
nat the parts referred to as data sected as me and that to the cest of e with the ACME Code for Nuclei	and employed by the National Board of Boiler a and employed by and employed by mpared the statements in this Data Report with the a items, not included in the items, not included in the items, and included in the items are knowledge and belief the MPT Certificate Molder has the Power Plant Components.	of
nat the parts referred to as data orcted as me and that to the zest of e with the ASME Code for Nuclear signing this certificate neither the	and employed by me National Board of Boiler a and employed by moared the statements in this Outa Report with the litems not included in the litems at items. The National Board of Boiler as Power Plant Components.	ond Pressure Vessel Inspectors and the State of of one described component supports and state certificate of shop inspection, have been constructed these component supports in according
nat the parts referred to as data arcted as me and that to the cest of e with the ACME Code for Nuclear signing this certificate neither the	and employed by me National Board of Boiler a and employed by moared the statements in this Outa Report with the litems not included in the litems at items. The National Board of Boiler as Power Plant Components.	ond Pressure Vessel Inspectors and the State of of one described component supports and state certificate of shop inspection, have been constructed these component supports in according
mat the parts referred to as data percent as me and that to the cest of e with the ACME Code for Nuclear signing this certificate neither the second described in this Outa Resources	and employed by me National Board of Boiler a and employed by mpared the statements in this Data Report with the ailems not included in the max howledge and belief the MPT Certificate Holder has the Power Plant Components.	ond Pressure Vessel Inspectors and the State of of one described component supports and state certificate of shop inspection, have been constructed these component supports in according
nat the parts referred to as data percent as me and that to the cest of e with the ACINE Code for Nuclear signing this certificate neither the secons described in this Outa Resources	and employed by me National Board of Boiler a and employed by mpared the statements in this Data Report with the ailems not included in the max howledge and belief the MPT Certificate Holder has the Power Plant Components.	ond Pressure Vessel Inspectors and the State of of one described component supports and state certificate of shop inspection, have been constructed these component supports in according
nat the parts referred to as data sected as me and that to the cest of e with the ACINE Code for Nuclear signing this certificate neither the secons described in this Outa Resources	and employed by me National Board of Boiler a and employed by moared the statements in this Outa Report with the litems not included in the litems at items. The National Board of Boiler as Power Plant Components.	ond Pressure Vessel Inspectors and the State of of one described component supports and state certificate of shop inspection, have been constructed these component supports in according
nat the parts referred to as data sected as me and that to the cest of e with the ACINE Code for Nuclear signing this certificate neither the secons described in this Outa Resources	and employed by me National Board of Boiler a and employed by mpared the statements in this Data Report with the ailems not included in the max howledge and belief the MPT Certificate Holder has the Power Plant Components.	ond Pressure Vessel Inspectors and the State of of one described component supports and state certificate of shop inspection, have been constructed these component supports in according
nat the parts referred to as data sected as me and that to the cest of e with the ACINE Code for Nuclear signing this certificate neither the secons described in this Outa Resources	and employed by me National Board of Boiler a and employed by mpared the statements in this Data Report with the ailems not included in the max howledge and belief the MPT Certificate Holder has the Power Plant Components.	ond Pressure Vessel Inspectors and the State of of one described component supports and state certificate of shop inspection, have been constructed these component supports in according

San Sala



3E 1870F

#### ENCLOSURE 2

ASME SECTION XI INSERVICE INSPECTION SUMMARY REPORT  $2^{\text{ND}}$  REFUELING OUTAGE

COMMITMENT LIST

#### ENCLOSURE 2

# WATTS BAR NUCLEAR PLANT UNIT 1 INSERVICE INSPECTION SUMMARY REPORT 2<sup>ND</sup> REFUELING OUTAGE COMMITMENT LIST

- 1. Two request for relief (RFR) are required to be written for ISI components examined during this inspection. The RFRs for the steam generator nozzle-to-safe end butt weld and the reactor vessel head-to-flange weld are required as a result of not obtaining code coverage due to limitations. The RFRs will be submitted under separate letter to the NRC.
- 2. The First Period of the 10-year inspection interval ended May 26, 1999. System pressure tests required for the First Period that were completed after the Cycle 2 Refueling Outage (April 16, 1999), will be reported in the Cycle 3 Summary Report.