# VIRGINIA ELECTRIC AND POWER COMPANY Richmond, Virginia 23261

January 29, 2001

United States Nuclear Regulatory Commission Attention: Document Control Desk Washington, D.C. 20555-0001 Serial No.: 01-021 NE/ISI/GDM Docket No.: 50-281 License No.: DPR-37

Gentlemen:

#### VIRGINIA ELECTRIC AND POWER COMPANY SURRY POWER STATION UNIT 2 INSERVICE INSPECTION SUMMARY REPORT FOR THE 2000 REFUELING OUTAGE

As set forth in the provisions of ASME Section XI, Paragraph IWA- 6230, enclosed is the Inservice Inspection Summary Report for Surry Power Station Unit 2 for the 2000 refueling outage. This report provides a summary of the examinations performed during the outage for the third inservice inspection interval.

In accordance with IWA-6220 of ASME Section XI, Attachment 1 includes a Form NIS-1, "Owner's Report for Inservice Inspections," an examination summary, and abstracts of examinations performed. Attachment 2 includes Forms NIS-2, "Owner's Report for Repairs or Replacements."

The entire report will be maintained on file at the corporate office. If you have any questions or require additional information, please contact us.

Very truly yours,

L. N. Hartz (/ Vice Present - Nuclear Engineering and Services

Attachments

H047

cc: U.S. Nuclear Regulatory Commission Region II Sam Nunn Atlanta Federal Center 61 Forsyth St. SW, Suite 23 T85 Atlanta, Georgia 30303-8931

> Mr. R. A. Musser NRC Senior Resident Inspector Surry Power Station

Attachment 1 Surry Power Station Unit 2 Inservice Inspections

**Abstract of Examinations** 

#### FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

1. Owner	Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, VA 23060
I. Owner	(Name and Address of Owner)
	Surry Power Station, 5570 Hog Island Rd., Surry, VA 23883
2. Plant	
	(Name and Address of Plant)
3. Plant Ur	hit2 4. Owner Certificate of Authorization (if required) <sup>NA</sup>
5 Comme	rcial Service Date6. National Board Number for Unit

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Steam Generator 2-RC-E-1A	Westinghouse, Tampa Division	2971	VA 58226	6817
Reactor Coolant Pump, 2-RC-P-1A	Westinghouse	492	NA	NA
Regenerative HX 2-CH-E-3	Sentry Equipment Division	A3-13	VA 59806	399
RHR Heat Exchanger 2-RH-E-1A	Atlas Industrial Manufacturing Company	892	VA 58234	742
RHR Heat Exchanger 2-RH-E-1B	Atlas Industrial Manufacturing Company	893	VA 58235	743
Recirc Spray Pump 2-RC-R-1	Byron Jackson Pumps	NA	NA	NA
Safety Injection Pump 2-SI-P-1A	Byron Jackson Pumps	NA	NA	NA
Class 1 & 2 Piping	Southwest Fabrication	NA	NA	NA
Class 1 & 2 Component Supports	Southwest Fabrication	NA	NA	NA

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is  $8\frac{1}{2}$  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.

#### FORM NIS-1 (Back)

•	05/24/99		11/02/00	
8.	Examination Dates	Second Period (05/		
9.	Inspection Period Identification			
10.	Inspection Interval Identification _	Third Interval (05/10		
11.	Applicable Edition of Section XI	1989	Addenda	NA
	Date/Revision of Inspection Plan	October, 2000,	Revision 11	
	-			a statement concerning status of work required
	for the Inspection Plan.	See Attachment 1,	Abstract of Examinations	s Performed
		See Attachment 1,	Abstract of System Press	sure Tests

- Abstract of Results of Examinations and Tests.
   See Attachment 1, Examination Summary, Page 2
- 15. Abstract of Corrective Measures. See Attachment 1, Examination Summary, Page 2

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.

Date       Jonwary 16+2001       Signed       Virginia Elect. & Power Co.       By       Multiplication         Owner         By       Multiplication         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	Certificate of Authorization No	o. (if applicable)	Expiration Date	e
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Virginia and employed by <u>H.S.B.I. &amp; I. Co.</u> of <u>Hartford, CI</u> have inspected the components described in this Owner's Report during the period <u>05/24/99</u> to <u>11/02/00</u> , 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, 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. <i>NB 7933, VA 883</i> ( <b>R</b> )	Date Jonuary I	virginia I	Elect. & Power Co. Owner	By thit pa
the State or Province of <u>Virginia</u> and employed by <u>H.S.B.I. &amp; I. Co.</u> of <u>Hartford, CI</u> <u>have inspected the components described in this Owner's Report during the period</u> <u>05/24/99</u> to <u>11/02/00</u> , 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, 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. <i>NB 7933</i> , VA 883( <b>R</b> )		CERTIFICATE OF INSI	ERVICE INSPECTION	
	the State or Province of	Virginia have inspected the com tohave inspected the com have inspected the com have inspected the correct d as required by the ASME Code, the neither the Inspector nor his emp d corrective measures described in in any manner for any personal inj ion. Comm	and employed by <u>H.S.B.I.</u> nponents described in this Ov, and state that to the best of ive measures described in this Section XI. loyer makes any warranty, ex this Owner's Report. Further jury or property damage or a $\mathcal{NB}$ 7933 $\mathcal{N}$ ,	& I. Co of wner's Report during the period f my knowledge and belief, the s Owner's Report in accordance expressed or implied, concerning more, neither the Inspector nor loss of any kind arising from or <b>Z</b> .

#### Examination Summary

#### Virginia Electric and Power Company Surry Power Station

# Unit 2

#### 2000 Refueling Outage 3rd Interval, 2nd Period

#### Introduction

This report covers Inservice examinations and tests of Class 1 and Class 2 components, piping and component supports that were conducted at Surry Power Station Unit 1 from May 24, 1999, through November 1, 2000. The examinations were conducted to meet the requirements of ASME Section XI, 1989 Edition, of the ASME Boiler and Pressure Vessel Code.

Examination procedures were approved prior to the performance of the examinations. Certification documents relative to personnel, equipment and materials were reviewed and determined to be satisfactory.

Inspections, witnessing and surveillance of the examinations and related activities were conducted by personnel from the Hartford Steam Boiler Inspection and Insurance Company, One State Street, Hartford, Connecticut 06102 (Mr. R.A. Smith), and Surry technical staff.

# **Limitations**

Some of the arrangements and details of the piping systems and components were designed and fabricated before the access and examination requirements of ASME Section XI of the 1989 Code could be applied. Consequently, some examinations are limited or not practical due to geometric configuration or accessibility. Generally, these limitations exist at fitting to fitting joints, such as elbow to tee, elbow to valve, reducer to valve, and where integrally welded attachments, lugs and supports preclude access to some part of the examination area. These limitations sometimes preclude ultrasonic coupling or access for the required scan length or surface examination.

# **Examinations**

Examinations were conducted to review as much of the examination zones as was practical within geometric, metallurgical and physical limitations. When 100% of the

required ultrasonic examination volume could not be examined, the examination method was evaluated and alternate beam angles or volumetric techniques were considered in an attempt to achieve the maximum examination volume. In the case of surface examinations where full coverage could not be achieved, alternative methods were considered and employed when possible to achieve maximum allowable coverage. When alternative methods would not increase the examination coverage, an alternate component was considered for examination. For all examinations covered by this report any reduction in total coverage was less than 10%; per Code Case N-460 these examinations are considered complete.

# Results

Rejectable conditions were found on pipe support H-2 on drawing 11548-MKS-RC-9. The support was reported cocked to one side with a spring can bottomed out. Corrective actions were made in accordance with ET S 00-0239 to add a U-bolt and reset the spring can. The inspection scope was expanded to include the two supports immediately adjacent to H-2 and additional supports were selected equal in number, type and function within the same system. Code Case N-491 rules were followed as applies to Surry Unit 2 for the selection of additional exams. No additional discrepancies were found.

No other examinations of components, piping and component supports identified rejectable or reportable conditions.

# **Analytical Evaluation**

Engineering Transmittal ET S 00-0239, Rev 0, Restoration of Deficiency Reported For Pipe Support H-2 On Drawing 11548-MKS-RC-9, Surry Power Station, Unit 2 was prepared to evaluate the discrepancy found on hanger H-2 and to provide guidance for corrective actions.

# **Evaluation Analyses**

None required or performed.

# **Statement of Interval Status**

Virginia Electric and Power Company (Dominion) will complete the Second Period of the 3<sup>rd</sup> Interval on May 10, 2001. We have presently completed 64% of total 3<sup>rd</sup> Interval exams scheduled, excluding Class I piping. A Risk Informed ISI Program for Class 1 piping inspection was implemented during this 2000 refueling outage in accordance with Virginia Power letter dated April 19, 2000.

Abstract of Examinations P	erformed IWB	IWC and IWF
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DRAWING	MARK/WELD	LINE	ISI CLASS	CATEGORY	ITEM	METHOD	EXAM DATE	REMARKS
11548-SPM-XXXXXX	PRESSURE TEST	VARIOUS	1	R-A	NA	VT-2	11/01/2000	
11548-WMKS-0101D1	2-SHP-H075	30"-SHP-102-601	2	F-A	F1.20	VT-3	10/07/2000	
11548-WMKS-0101G1	1-09	14"-WFPD-113-601	2	C-F-2	C5.51	UT/MT	10/15/2000	
11548-WMKS-0101G1	1-18	14"-WFPD-113-601	2	C-F-2	C5.51	UT/MT	10/15/2000	
11548-WMKS-0102D1	2-SHP-HSS-013A	30*-SHP-103-601	2	T\$3.2	TS4.17	VT-3	10/17/2000	
11548-WMKS-0102D1	H002-1	30"-SHP-103-601	2	C-C	C3.20	МТ	10/15/2000	
11548-WMKS-0102D1	H002-2	30"-SHP-103-601	2	C-C	C3.20	MT	10/15/2000	
11548-WMKS-0102G1	1-11	14"-WFPD-109-601	2	C-F-2	C5.51	UT/MT	10/20/2000	
11548-WMKS-0117A1-	0-05L	14"-RH-102-602	2	C-F-1	C5.12	UT/PT	10/19/2000	
11548-WMKS-0117A1-	- 2-RH-H013	12"-RH-119-602	2	F-A	F1.20	VT-3	10/09/2000	
11548-WMKS-0117B1	2-RH-H009A	10"-RH-117-1502	1	F-A	F1.10	VT-3	10/18/2000	A
11548-WMKS-0117B1	2-RH-H027	12"-RH-112-602	2	F-A	F1.20	VT-3	10/18/2000	
11548-WMKS-0117B1	2-RH-HSS-025	10"-RH-137-602	2	TS3.2	TS4.17	VT-3	10/17/2000	
11548-WMKS-0117B1	3-13	10"-RH-116-1502	2	C-F-1	C5.11	UT/PT	10/10/2000	

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DRAWING	MARK/WELD	LINE	ISI CLASS	CATEGORY	ITEM	METHOD	EXAM DATE	REMARKS
11548-WMKS-0117B1	3-14	10"-RH-116-1502	2	C-F-1	C5.11	UT/PT	10/10/2000	
11548-WMKS-0117B1	H009-1	10"-RH-117-1502	1	В-К	B10.20	Р́Т	10/19/2000	
11548-WMKS-0117B1	H009-2	10"-RH-117-1502	1	В-К	B10.20	PT	10/19/2000	
11548-WMKS-0118A2	0-25	6"-WAPD-150-601	2	C-F-2	C5.51	UT/MT	10/13/2000	
11548-WMKS-0122A1	2-SI-H009	12"-SI-247-1502	2.	F-A	F1.20	VT-3	10/09/2000	
11548-WMKS-0122D1	H006-1	12"-SI-246-1502	1	В-К	B10.20	PT	10/09/2000	
11548-WMKS-0122D1	H006-2	12"-SI-246-1502	1	B-K	B10.20	PT	10/09/2000	
11548-WMKS-0122D1	H006-3	12"-SI-246-1502	1	В-К	B10.20	PT	10/09/2000	
11548-WMKS-0122D1	H006-4	12"-SI-246-1502	1	В-К	B10.20	PT	10/09/2000	
11548-WMKS-0122J1	2-01	6"-SI-250-1502	2	C-F-1	C5.11	UT/PŤ	10/19/2000	
11548-WMKS-0122K1-	3-13	6"-SI-249-1502	2	C-F-1	C5.11	UT/PT	10/08/2000	
11548-WMKS-0122K1-	3-14	6"-SI-249-1502	2	C-F-1	C5.11	UT/PT	10/08/2000	
11548-WMKS-0122K1-	5-34	6"-SI-249-1502	2	C-F-1	C5.11	UT/PT	10/08/2000	
11548-WMKS-0122K1-	5-35	6"-SI-249-1502	2	C-F-1	C5.11	UT/PT	10/08/2000	
11548-WMKS-0124A1	2-RC-H013	4"-RC-334-1502	1	F-A	F1.10	VT-3	10/11/2000	A
11548-WMKS-0124A1	2-RC-H018	3"-RC-335-1502	1	F-A	F1.10	VT-3	10/11/2000	A

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DRAWING	MARK/WELD	LINE	ISI CLASS	CATEGORY	ITEM	METHOD	EXAM DATE	REMARKS
11548-WMKS-0125A1	2-RC-H001A	4"-RC-315-1502	1	F-A	F1.10	VT-3	10/11/2000	A
11548-WMKS-0125A1	2-RC-H001B	4"-RC-315-1502	1	F-A	F1.10	VT-3	10/11/2000	А
11548-WMKS-0125A1	2-RC-H039A	4"-RC-315-1502	1	F-A	F1.10	VT-3	10/11/2000	A
11548-WMKS-0125A1	2-RC-H039B	4"-RC-315-1502	1.	F-A	F1.10	VT-3	10/11/2000	Α
11548-WMKS-0127J2	3-01	6"-SI-344-1502	2.	C-F-1	C5.11	UT/PŤ	10/14/2000	
11548-WMKS-0127J2	3-02	6"-SI-344-1502	2	C-F-1	C5.11	UT/PT	10/14/2000	
11548-WMKS-0127J3Z	1-34	2"-SI-270-1503	2	C-F-1	C5.30	PT	10/08/2000	
11548-WMKS-0127J3Z	1-35	2"-SI-270-1503	2	C-F-1	C5.30	PT	10/08/2000	
11548-WMKS-CH-8	2-CH-H008A	3"-CH-301-1502	1	F-A	F1.10	VT-3	10/07/2000	Α
11548-WMKS-CH-9	2-CH-H019	3"-CH-379-1503	1	F-A	F1.10	VT-3	10/07/2000	
11548-WMKS-CH-E-3	1-04	2-CH-E-3	1	B-B	B2.51	UT	10/09/2000	P
11548-WMKS-CH-E-3	1-09	2-CH-E-3	1	B-D	B3.150	PT	10/10/2000	
11548-WMKS-CH-E-3	1-11	2-CH-E-3	1	B-D	B3.150	PT	10/10/2000	
11548-WMKS-CH-E-3	1-22	2-CH-E-3	1	В-В	B2.80	UT	10/09/2000	Р
11548-WMKS-CH-E-3	1-23	2-CH-E-3	2	C-A	C1.30	UT	10/09/2000	
11548-WMKS-CH-E-3	1-24	2-CH-E-3	2	C-A	C1.20	UT	10/09/2000	Ρ

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DRAWING	MARK/WELD	LINE	ISI CLASS	CATEGORY	ITEM	METHOD	EXAM DATE	REMARKS
11548-WMKS-CH-E-3	2-CH-H003	2-CH-E-3	1	F-A	F1.40	VT-3	10/09/2000	A
11548-WMKS-RC-10Z	2-RC-H002	2"-RC-359-1502	1	F-A	F1.40	VT-3	10/17/2000	
11548-WMKS-RC-9	2-RC-H001A	12"-RC-310-2501R	1	F-A	F1.10	VT-3	10/11/2000	Α
11548-WMKS-RC-9	2-RC-H001B	12"-RC-310-2501R	1	F-A	F1.10	VT-3	10/11/2000	А
11548-WMKS-RC-9	2-RC-H002A	12"-RC-310-2501R	1	F-A	F1.10	VT-3	10/09/2000	R
11548-WMKS-RC-9	2-RC-H002B	12"-RC-310-2501R	1	F-A	F1.10	VT-3	10/09/2000	R
11548-WMKS-RC-E-1A	. 1-01	2-RC-E-1A	1	B-B	B2.40	UT	10/05/2000	Р
11548-WMKS-RC-E-2	2-RC-H003	2-RC-H003	1	F-A	F1.40	VT-3	10/11/2000	Α
11548-WMKS-RC-MO	2-RC-MOV-2591	27 "-RC-303-2501R	1	B-M-2	B12.50	VT-3	07/10/1999	N
11548-WMKS-RH-E-1A	H001-1	2-RH-E-1A	2	C-C	C3.10	PT	10/13/2000	
11548-WMKS-RH-E-1B	3 1-B01	2-RH-E-1B	2	C-A	C1.20	UT	10/11/2000	Р
11548-WMKS-RH-E-1B	3 1-B02	2-RH-E-1B	2	C-A	C1.10	UT	10/11/2000	Р
11548-WMKS-RH-E-1E	3 1-B06	2-RH-E-1B	2	C-B	C2.31	PT	10/13/2000	
11548-WMKS-RS-P-2A	2-05	2-RS-P-2A	2	C-G	C6.10	PT	10/06/2000	
11548-WMKS-RS-P-2A	2-06	2-RS-P-2A	2	C-G	C6.10	PT	10/04/2000	
11548-WMKS-SI-15	0-02	3°-SI-346-1503	2	C-F-1	C5.21	UT/PT	10/11/2000	

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DRAWING	MARK/WELD	LINE	ISI CLASS	CATEGORY	ITEM	METHOD	EXAM DATE	REMARKS
11548-WMKS-SI-15	0-03	3"-SI-346-1503	2	C-F-1	C5.21	UT/PT	10/11/2000	
11548-WMKS-SI-4	2-SI-H002	10"-SI-362-153	2	F-A	F1.20	VT-3	10/09/2000	
11548-WMKS-SI-P-1A	2-05	2-SI-P-1A	2	C-G	C6.10	PT	10/08/2000	
11548-WMKS-SI-P-1A	2-06	2-SI-P-1A	2	C-G	C6.10	PT	10/08/2000	

P - partial, all partials for this report fall within guidelines of Code Case N-460. No relief request is required.

A - additional examination performed

R - rejectable results

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# Abstract of Examinations System Pressure Test Program

ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
1-SPM-079D-1-3	BORIC ACID TRANSFER PUMP 1-CH-P-2C	2	С-Н	C7.70	9/29/00
1-SPM-079D-1-3	BORIC ACID TRANSFER PUMP 1-CH-P-2C	2	С-Н	C7.30	9/29/00
1-SPM-079D-1-4	BORIC ACID TRANSFER PUMP 1-CH-P-2D	2	С-Н	C7.70	9/29/00
1-SPM-079D-1-4	BORIC ACID TRANSFER PUMP 1-CH-P-2D	2	С-Н	C7.30	9/29/00
1-SPM-082A-1-6	VOLUME CONTROL TANK LETDOWN HEADER	2	C-H	C7.70	3/1/00
1-SPM-082A-1-6	VOLUME CONTROL TANK LETDOWN HEADER	2	C-H	C7.30	3/1/00
1-SPM-088A-1-4	BORIC ACID TRANSFER PUMP 1-CH-P-2C	2	C-H	C7.70	9/29/00
1-SPM-088A-1-4	BORIC ACID TRANSFER PUMP 1-CH-P-2C	2	C-H	C7.30	9/29/00
1-SPM-088A-1-4	BORIC ACID TRANSFER PUMP 1-CH-P-2C	2	C-H	C7.50	9/29/00
1-SPM-088A-1-5	BORIC ACID TRANSFER PUMP 1-CH-P-2D	2	C-H	C7.70	9/29/00
1-SPM-088A-1-5	BORIC ACID TRANSFER PUMP 1-CH-P-2D	2	C-H	C7.10	9/29/00
1-SPM-088A-1-5	BORIC ACID TRANSFER PUMP 1-CH-P-2D	2	C-H	C7.30	9/29/00
1-SPM-088A-1-5	BORIC ACID TRANSFER PUMP 1-CH-P-2D	2	C-H	C7.50	9/29/00

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ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
1-SPM-088A-2-3	BORIC ACID TRANSFER PUMP 1-CH-P-2D	2	С-Н	C7.30	9/29/00
1-SPM-088A-2-3	BORIC ACID TRANSFER PUMP 1-CH-P-2D	2	С-Н	C7.70	9/29/00
2-SPM-064A-4-3	TERRY TURBINE AND CONNECTING PIPE	2	С-Н	C7.70	2/22/00
2-SPM-064A-4-3	TERRY TURBINE AND CONNECTING PIPE	2	C-H	C7.30	2/22/00
2-SPM-075E-1-1	COMPRESSED AIR SYSTEM PENETRATION PIPING	2	C-H	C7.30	10/1/00
2-SPM-075E-1-1	COMPRESSED AIR SYSTEM PENETRATION PIPING	2	C-H	C7.70	10/1/00
2-SPM-082A-2-1	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-082A-2-1	REACTOR COOLANT SYSTEM	1	8-P	B15.70	10/29/00
2-SPM-082A-2-2	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-082A-2-2	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-082A-2-3	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-082A-2-3	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00

ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-082A-2-4	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-082A-2-4	REACTOR COOLANT SYSTEM	1	8-P	B15.70	10/29/00
2-SPM-082A-3-1	VOLUME CONTROL TANK LETDOWN HEADER	2	C-H	C7.70	3/1/00
2-SPM-082A-3-1	VOLUME CONTROL TANK LETDOWN HEADER	2	С-Н	C7.30	3/1/00
2-SPM-082A-3-3	VOLUME CONTROL TANK LETDOWN HEADER	2	С-Н	C7.30	3/1/00
2-SPM-082A-3-3	VOLUME CONTROL TANK LETDOWN HEADER	2	С-Н	C7.70	3/1/00
2-SPM-083A-1-1	CONTAINMENT SUMP PUMP DISCHARGE	2	C-H	C7.70	10/20/00
2-SPM-083A-1-1	CONTAINMENT SUMP PUMP DISCHARGE	2	С-Н	C7.30	10/20/00
2-SPM-083B-3-3	CONTAINMENT SUMP PUMP DISCHARGE	2	C-H	C7.70	10/20/00
2-SPM-083B-3-3	CONTAINMENT SUMP PUMP DISCHARGE	2	С-Н	C7.30	10/20/00

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ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-084A-1-1	REFUELING WATER STORAGE TANK AND ASSOCIATED PIPE	2	С-Н	C7.70	4/11/00
2-SPM-084A-1-1	REFUELING WATER STORAGE TANK AND ASSOCIATED PIPE	2	С-Н	C7.30	4/11/00
2-SPM-084A-1-1	REFUELING WATER STORAGE TANK AND ASSOCIATED PIPE	2	С-Н	C7.10	4/11/00
2-SPM-084A-1-3	DISCHARGE INTO RWST FROM SI PUMPS	2	C-H	C7.70	6/5/00
2-SPM-084A-1-3	DISCHARGE INTO RWST FROM SI PUMPS	2	С-Н	C7.30	6/5/00
2-SPM-084A-1-4	2-CS-P-1A SUCTION AND DISCHARGE PIPING	2	С-н	C7.70	6/20/00
2-SPM-084A-1-4	2-CS-P-1A SUCTION AND DISCHARGE PIPING	2	С-Н	C7.30	6/20/00
2-SPM-084A-2-1	REFUELING WATER STORAGE TANK AND ASSOCIATED PIPE	2	С-Н	C7.70	4/11/00
2-SPM-084A-2-1	REFUELING WATER STORAGE TANK AND ASSOCIATED PIPE	2	С-Н	C7.30	4/11/00
2-SPM-084A-2-2	2-CS-P-1A SUCTION AND DISCHARGE PIPING	2	С-Н	C7.70	6/20/00
2-SPM-084A-2-2	2-CS-P-1A SUCTION AND DISCHARGE PIPING	2	C-H	C7.50	6/20/00
2-SPM-084A-2-2	2-CS-P-1A SUCTION AND DISCHARGE PIPING	2	C-H	C7.30	6/20/00

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ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-084A-2-3	2-CS-P-1B SUCTION AND DISCHARGE PIPING	2	С-Н	C7.50	6/18/00
2-SPM-084A-2-3	2-CS-P-1B SUCTION AND DISCHARGE PIPING	2	C-H	C7.30	6/18/0
2-SPM-084A-2-3	2-CS-P-1B SUCTION AND DISCHARGE PIPING	2	C-H	C7.70	6/18/0
2-SPM-084A-3-1	REFUELING WATER STORAGE TANK AND ASSOCIATED PIPE	2	С-Н	C7.70	4/11/0
2-SPM-084A-3-1	REFUELING WATER STORAGE TANK AND ASSOCIATED PIPE	2	С-Н	C7.30	4/11/0
2-SPM-084A-3-2	REFUELING WATER STORAGE TANK AND ASSOCIATED PIPE	2	С-Н	C7.70	4/11/0
2-SPM-084A-3-2	REFUELING WATER STORAGE TANK AND ASSOCIATED PIPE	2	С-Н	C7.30	4/11/0
2-SPM-084A-3-3	RWST/CAT CROSS TIE PIPING	2	C-H	C7.30	2/14/0
2-SPM-084A-3-3	RWST/CAT CROSS TIE PIPING	2	С-Н	C7.70	2/14/0
2-SPM-084A-3-4	CAT UNDERGROUND PIPING	2	С-Н	C7.70	4/11/0
2-SPM-084A-3-4	CAT UNDERGROUND PIPING	2	C-H	C7.30	4/11/0
2-SPM-084A-3-5	REFUELING WATER CHEMICAL ADDITION	2	С-Н	C7.10	4/11/0
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ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-084A-3-5	REFUELING WATER CHEMICAL ADDITION TANK	2	С-Н	C7.70	4/11/00
2-SPM-084A-3-5	REFUELING WATER CHEMICAL ADDITION TANK	2	C-H	C7.30	4/11/00
2-SPM-086A-1-1	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-1-1	REACTOR COOLANT SYSTEM	1	B-P	B15.30	10/29/00
2-SPM-086A-1-1	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-086A-1-1	REACTOR COOLANT SYSTEM	1	В-Р	B15.60	10/29/00
2-SPM-086A-1-2	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-086A-1-2	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-1-3	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-086A-1-3	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-1-4	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00

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ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-086A-1-4	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-1-5	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-1-5	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-086A-2-1	REACTOR COOLANT SYSTEM	1	B-P	B15.60	10/29/00
2-SPM-086A-2-1	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-086A-2-1	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-2-1	REACTOR COOLANT SYSTEM	1	B-P	B15.30	10/29/00
2-SPM-086A-2-2	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-2-2	REACTOR COOLANT SYSTEM	1	B-P	B15.30	10/29/00
2-SPM-086A-2-3	REACTOR COOLANT SYSTEM	1	B-P	B15.30	10/29/00

ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-086A-2-3	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-2-4	REACTOR COOLANT SYSTEM	1	B-P	B15.30	10/29/00
2-SPM-086A-2-4	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-2-5	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-2-5	REACTOR COOLANT SYSTEM	1	B-P	B15.30	10/29/00
2-SPM-086A-3-1	REACTOR COOLANT SYSTEM	1	B-P	B15.60	10/29/00
2-SPM-086A-3-1	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-3-1	REACTOR COOLANT SYSTEM	1	B-P	B15.30	10/29/00
2-SPM-086A-3-1	REACTOR COOLANT SYSTEM	1	B-P	B15.10	10/29/00
2-SPM-086A-3-1	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00

ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-086A-3-2	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-086A-3-2	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-3-3	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-086A-3-3	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-3-4	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-3-4	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-086A-3-5	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-086A-3-5	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-3-6	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086A-3-6	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00

	1	B-P B-P	B15.20 B15.50	10/29/00
	1	B-P	B15.50	10/29/00
LANT				
	1	B-P	B15.70	10/29/00
LANT	1	В-Р	B15.70	10/29/00
LANT	1	B-P	B15.50	10/29/00
LANT	1	B-P	B15.50	10/29/00
LANT	1	B-P	B15.70	10/29/00
LANT	1	B-P	B15.50	10/29/00
LANT	1	B-P	B15.70	10/29/00
LANT	1	B-P	B15.70	10/29/00
	ANT ANT	ANT 1 ANT 1 ANT 1	ANT 1 B-P ANT 1 B-P ANT 1 B-P	ANT     1     B-P     B15.70       ANT     1     B-P     B15.50       ANT     1     B-P     B15.70

ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-086C-1-1	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086C-1-2	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086C-1-2	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-086C-1-4	RVLIS TRAINS "A & B" OUTSIDE CTMT	2	С-Н	C7.70	6/14/00
2-SPM-086C-1-4	RVLIS TRAINS "A & B" OUTSIDE CTMT	2	С-Н	C7.30	6/14/00
2-SPM-086C-2-1	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-086C-2-1	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-086C-2-3	RVLIS TRAINS "A & B" OUTSIDE CTMT	2	С-н	C7.70	6/14/00
2-SPM-086C-2-3	RVLIS TRAINS "A & B" OUTSIDE CTMT	2	С-Н	C7.30	6/14/00
2-SPM-087A-1-1	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-087A-1-1	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-087A-2-3	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00

ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-087A-2-3	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-087A-2-4	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-087A-2-4	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-088A-1-1	VOLUME CONTROL TANK LETDOWN HEADER	2	C-H	C7.70	3/1/00
2-SPM-088A-1-1	VOLUME CONTROL TANK LETDOWN HEADER	2	C-H	C7.30	3/1/00
2-SPM-088A-1-2	BORATE FOR END OF CORE LIFE	2	C-H	C7.30	9/11/00
2-SPM-088A-1-2	BORATE FOR END OF CORE LIFE	2	C-H	C7.70	9/11/00
2-SPM-088A-2-2	VOLUME CONTROL TANK LETDOWN HEADER	2	С-Н	C7.70	3/1/00
2-SPM-088A-2-2	VOLUME CONTROL TANK LETDOWN HEADER	2	C-H	C7.30	3/1/00
2-SPM-088A-2-3	NON REGENERATIVE HEAT EXCHANGER 2- CH-E-2	2	С-Н	C7.70	2/16/00
2-SPM-088A-2-3	NON REGENERATIVE HEAT EXCHANGER 2- CH-E-2	2	С-Н	C7.10	2/16/00

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ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-088A-2-3	NON REGENERATIVE HEAT EXCHANGER 2- CH-E-2	2	С-Н	C7.30	2/16/00
2-SPM-088B-1-1	DISCHARGE INTO RWST FROM SI PUMPS	2	С-Н	C7.10	6/5/00
2-SPM-088B-1-1	DISCHARGE INTO RWST FROM SI PUMPS	2	C-H	C7.30	6/5/00
2-SPM-088B-1-1	DISCHARGE INTO RWST FROM SI PUMPS	2	С-Н	C7.70	6/5/00
2-SPM-088B-1-10	MISC CHARGING 2-CH-220	2	С-Н	C7.70	9/27/00
2-SPM-088B-1-10	MISC CHARGING 2-CH-220	2	С-Н	C7.30	9/28/00
2-SPM-088B-1-11	MISC CHARGING 2-CH-FCV-2113B	2	С-Н	C7.70	2/22/00
2-SPM-088B-1-11	MISC CHARGING 2-CH-FCV-2113B	2	С-Н	C7.30	2/22/00
2-SPM-088B-1-3	SEAL RETURN HEADER AND SUCTION LINE TO CHARGING PUMP	2	С-Н	C7.10	6/14/00
2-SPM-088B-1-3	SEAL RETURN HEADER AND SUCTION LINE TO CHARGING PUMP	2	С-Н	C7.30	6/14/00
2-SPM-088B-1-3	SEAL RETURN HEADER AND SUCTION LINE TO CHARGING PUMP	2	С-Н	C7.70	6/14/00
2-SPM-088B-1-4	VOLUME CONTROL TANK LETDOWN HEADER	2	С-Н	C7.10	3/1/00

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ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-088B-1-4	VOLUME CONTROL TANK LETDOWN HEADER	2	C-H	C7.30	3/1/00
2-SPM-088B-1-4	VOLUME CONTROL TANK LETDOWN HEADER	2	C-H	C7.70	3/1/00
2-SPM-088B-1-6	MISC CHARGING 2-CH-228	2	С-Н	C7.30	2/17/00
2-SPM-088B-1-6	MISC CHARGING 2-CH-228	2	С-Н	C7.70	2/17/00
2-SPM-088B-1-7	MISC CHARGING 2-CH-FCV-2114A	2	С-Н	C7.30	2/16/00
2-SPM-088B-1-7	MISC CHARGING 2-CH-FCV-2114A	2	C-H	C7.70	2/16/00
2-SPM-088B-1-8	MISC CHARGING 2-CH-MOV-2350	2	С-Н	C7.70	2/17/00
2-SPM-088B-1-8	MISC CHARGING 2-CH-MOV-2350	2	С-Н	C7.30	2/17/00
2-SPM-088B-1-9	MISC CHARGING 2-CH-218	2	С-Н	C7.70	9/28/00
2-SPM-088B-1-9	MISC CHARGING 2-CH-218	2	C-H	C7.30	9/28/00
2-SPM-088B-2-1	CHARGING HEADER AND SEAL INJECTION FILTER	2	C-H	C7.30	6/14/00
2-SPM-088B-2-1	CHARGING HEADER AND SEAL INJECTION FILTER	2	C-H	C7.70	6/14/00
2-SPM-088B-2-2	RWST CROSSTIE	2	С-Н	C7.70	2/16/00
2-SPM-088B-2-2	RWST CROSSTIE	2	C-H	C7.30	2/16/00

ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-088B-2-3	CHARGING ALTERNATE HEADER	2	C-H	C7.70	6/14/00
2-SPM-088B-2-3	CHARGING ALTERNATE HEADER	2	С-Н	C7.30	6/14/00
2-SPM-088B-2-4	LOW HEAD SAFETY INJECTION PUMP CROSS-TIE TO CHARGING PUMPS	2	С-Н	C7.70	2/7/00
2-SPM-088B-2-4	LOW HEAD SAFETY INJECTION PUMP CROSS-TIE TO CHARGING PUMPS	2	С-Н	C7.30	2/7/00
2-SPM-088B-2-6	SEAL RETURN HEADER AND SUCTION LINE TO CHARGING PUMP	2	С-Н	C7.70	6/14/00
2-SPM-088B-2-6	SEAL RETURN HEADER AND SUCTION LINE TO CHARGING PUMP	2	С-Н	C7.30	6/14/00
2-SPM-088C-1-1	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-088C-1-1	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-088C-1-2	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-088C-1-2	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-088C-1-3	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-088C-1-3	REACTOR COOLANT	1	B-P	B15.50	

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ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-088C-1-3	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-088C-1-4	CHARGING HEADER AND SEAL INJECTION FILTER	2	С-Н	C7.70	6/14/00
2-SPM-088C-1-4	CHARGING HEADER AND SEAL INJECTION FILTER	2	С-Н	C7.30	6/14/00
2-SPM-088C-1-6	REACTOR COOLANT SYSTEM	1	8-P	B15.40	10/29/00
2-SPM-088C-1-6	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-088C-1-6	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-088C-1-8	CHARGING ALTERNATE HEADER	2	С-Н	C7.70	6/14/00
2-SPM-088C-1-8	CHARGING ALTERNATE HEADER	2	С-Н	C7.30	6/14/00
2-SPM-088C-2-1	CHARGING HEADER AND SEAL INJECTION FILTER	2	С-Н	C7.70	6/14/00
2-SPM-088C-2-1	CHARGING HEADER AND SEAL INJECTION FILTER	2	С-Н	C7.30	6/14/00
2-SPM-088C-2-7	CHARGING ALTERNATE HEADER	2	C-H	C7.30	6/14/00
2-SPM-088C-2-7	CHARGING ALTERNATE HEADER	2	С-Н	C7.70	6/14/00

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ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-088C-2-8	REACTOR COOLANT SYSTEM	1	B-P	B15.60	10/29/00
2-SPM-088C-2-8	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-088C-2-8	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-089A-1-5	RWST CROSSTIE	2	С-Н	C7.30	2/16/00
2-SPM-089A-1-5	RWST CROSSTIE	2	С-Н	C7.70	2/16/00
2-SPM-089A-2-5	LOW HEAD SAFETY INJECTION DISCHARGE PIPING TO MOV- 2890C	2	С-н	C7.70	6/5/00
2-SPM-089A-2-5	LOW HEAD SAFETY INJECTION DISCHARGE PIPING TO MOV- 2890C	2	С-Н	C7.30	6/5/00
2-SPM-089A-2-6	DISCHARGE INTO RWST FROM SI PUMPS	2	C-H	C7.70	6/5/00
2-SPM-089A-2-6	DISCHARGE INTO RWST FROM SI PUMPS	2	С-Н	C7.30	6/5/00
2-SPM-089A-2-7	LOW HEAD SAFETY INJECTION PUMP CROSS-TIE TO CHARGING PUMPS	2	С-Н	C7.70	2/7/00
2-SPM-089A-2-7	LOW HEAD SAFETY INJECTION PUMP CROSS-TIE TO CHARGING PUMPS	2	С-Н	C7.30	2/7/00

ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-089A-2-8	SEAL RETURN HEADER AND SUCTION LINE TO CHARGING PUMP	2	С-Н	C7.30	6/14/00
2-SPM-089A-2-8	SEAL RETURN HEADER AND SUCTION LINE TO CHARGING PUMP	2	С-Н	C7.70	6/14/00
2-SPM-089A-3-3	CHARGING HEADER AND SEAL INJECTION FILTER	2	С-Н	C7.30	6/14/00
2-SPM-089A-3-3	CHARGING HEADER AND SEAL INJECTION FILTER	2	С-Н	C7.70	6/14/00
2-SPM-089A-3-4	CHARGING ALTERNATE HEADER	2	С-Н	C7.30	6/14/00
2-SPM-089A-3-4	CHARGING ALTERNATE HEADER	2	С-н	C7.70	6/14/00
2-SPM-089B-1-1	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-089B-1-1	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-089B-1-3	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-089B-1-3	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-089B-2-1	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00

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ZONE	DESCRIPTION	CLASS	CATEGORY	ITEM	DATE
2-SPM-089B-2-1	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-089B-2-3	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-089B-2-3	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-089B-3-1	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-089 <b>B-3-</b> 1	REACTOR COOLANT SYSTEM	1	8-P	B15.50	10/29/00
2-SPM-089B-3-3	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-089B-3-3	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00
2-SPM-089B-4-1	REACTOR COOLANT SYSTEM	1	B-P	B15.70	10/29/00
2-SPM-089B-4-1	REACTOR COOLANT SYSTEM	1	B-P	B15.50	10/29/00

#### **Abstract of Examinations**

# **Containment Inservice Inspection Program**

Examinations performed for Category IWE did not identify any conditions which would affect inaccessible areas and require reporting per 10 CFR 50.55a(b)(viii)(E) or 10 CFR 50.55a(b)(ix)(A).

#### Abstract of Examinations Snubber Program

During the Unit 2 Refueling Outage in October 2000, the following activities were performed to implement the snubber program:

- Functional Test Program: a total of 25 snubbers were selected for functional test including 20 hydraulic snubbers, 4 mechanical snubbers and one large bore snubber. All functional tests were completed satisfactory.
- Seal Replacement Program: a total of 22 hydraulic snubbers were selected for seal replacement. These snubbers were replaced with a rebuilt snubber or a new snubber.
- Visual Inspection Program: all snubbers were inspected in accordance with surveillance procedure 2-NPT-PR-002 "Snubber Visual Inspection".

# Dominion Generation Surry Unit 2 October, 2000 90 Day Steam Generator Report

Station	Unit	Outage Date	Generator Examined		Date of Report
Surry	2	October, 2000		С	10/30/00

	Scope of Inspection									
SG	Inspection Program	Planned	Inspected	Inspection Method	Extent					
С	Bobbin	3332	3332	Bobbin	TSH-TSC					
С	Row 1 U-Bend RPC	92	92	+Point RPC	7H – 7C					
С	TTSH RPC	669	669	3-Coil RPC	TSH +/- 3"					
С	Special Interest Hot Leg	98	98	+Point/3-Coil RPC	N/A					
С	Special Interest Cold Leg	229	229	+Point/3-Coil RPC	N/A					

Indications of Imperfections Detected										
SG	NDE Method	Ro w	Column	Indication Code	Location	Active Yes/No	Measured Wall Penetration			
c	Bobbin	24	8	13%	AV2	No	13%			
c	Bobbin	24	8	13%	AV2 AV4	No	13%			
č	Bobbin	25	9	13%	AV4 AV3	No	13%			
C	Bobbin	38	21	12%	AV3 AV2	No	13 %			
č	Bobbin	26	26	16%	AV2 AV3	No	16%			
č	Bobbin	26	26	15%	AV3 AV4	No	15%			
c	Bobbin	25	20	13%	AV4 AV2	No	13%			
C	Bobbin	38	28	13%	AV2 AV1	No	13%			
C C	Bobbin	38	28	11%	AV1 AV3	No	11%			
C C	Bobbin	25	20	18%	AV3 AV3	No	18%			
C	Bobbin	34	29	13%	AV3 AV4	No	13%			
C	Bobbin	40	33	12%	AV4 AV1	No	12%			
$\frac{c}{c}$	Bobbin	40	33	12%	AV1 AV2					
c	Bobbin	40	33	23%	AV2 AV3	No	19% 23%			
C	Bobbin	40	33	13%		No				
c	Bobbin	26	39		AV2	No	13%			
$\frac{c}{c}$	Bobbin	43	39	15%	AV3	No	15%			
	Bobbin	39	53	19%	AV2	No	19%			
			53	24%	AV3	No	24%			
	Bobbin	39		22%	AV3	No	22%			
	Bobbin	39	55	19%	AV4	No	19%			
C	Bobbin	43	61	18%	AV1	No	18%			
C	Bobbin	44	61	10%	AV1	No	10%			
C	Bobbin	37	63	12%	AV2	No	12%			
С	Bobbin	40	63	17%	AV3	No	17%			
C	Bobbin	40	63	18%	AV4	No	18%			
С	Bobbin	31	65	15%	AV2	No	15%			
С	Bobbin	40	65	10%	AV3	No	10%			
С	Bobbin	41	66	14%	AV3	No	14%			
С	Bobbin	41	67	11%	AV2	No	11%			
С	Bobbin	33	68	16%	AV1	No	16%			
С	Bobbin	33	68	16%	AV2	No	16%			
С	Bobbin	41	68	10%	AV2	No	10%			

	Indications of Imperfections Detected (continued)									
SG	NDE Method	Ro W	Column	Indication Code	Location	Active Yes/No	Measured Wall Penetration			
C	Bobbin	31	69	15%	AV2	No	15%			
C	Bobbin	33	70	11%	AV1	No	11%			
С	Bobbin	33	70	9%	AV2	No	9%			
C	Bobbin	33	70	15%	AV3	No	15%			
C	Bobbin	40	70	12%	AV1	No	12%			
C	Bobbin	40	70	10%	AV3	No	10%			
С	Bobbin	37	73	16%	AV3	No	16%			
С	Bobbin	38	73	12%	AV1	No	12%			
С	Bobbin	38	73	14%	AV2	No	14%			
С	Bobbin	31	75	14%	AV3	No	14%			
С	Bobbin	31	75	16%	AV4	No	16%			
C	Bobbin	35	77	14%	AV2	No	14%			
С	Bobbin	35	77	13%	AV2	No	13%			
С	Bobbin	27	84	11%	AV4	No	11%			
C	Bobbin	37	30	36%	AV2	No	36%			
C	Bobbin	37	30	41%	AV3	No	41%			
C	Bobbin	37	30	19%	AV4	No	19%			
С	Bobbin	38	34	16%	AV1	No	16%			
С	Bobbin	38	34	37%	AV2	No	37%			
С	Bobbin	38	34	43%	AV3	No	43%			
С	Bobbin	38	34	35%	AV4	No	35%			
С	Bobbin	43	40	29%	AV2	No	29%			
C	Bobbin	43	40	16%	AV3	No	16%			
C	Bobbin	28	49	27%	AV4	No	27%			
С	Bobbin	35	54	20%	AV1	No	20%			
С	Bobbin	35	54	28%	AV2	No	28%			
С	Bobbin	40	54	28%	AV3	No	28%			
C	Bobbin	40	54	21%	AV4	No	21%			
C	Bobbin	40	57	29%	AV1	No	29%			
С	Bobbin	40	57	16%	AV2	No	16%			

Tube Plugging						
SG	Reason/Mechanism	Tubes Plugged				
С	AVB Wear	7				
Total T	ubes Plugged	7				

	Repair Attributions								
SG	Ro W	Column	Reason/Mechanism	Repair Method					
С	37	30	AVB Wear	Plug					
С	38	34	AVB Wear	Plug					
С	43	40	AVB Wear	Plug					
С	28	49	AVB Wear	Plug					
С	35	54	AVB Wear	Plug					
С	40	54	AVB Wear	Plug					
С	40	57	AVB Wear	Plug					

	Plugging/Repair Record									
SG	Tubes Plugged	Tubes Repaired (Not Plugged)	Percent Plugged	Percent Repaired (Not Plugged)	Percent Plugged or Repaired					
A	15	0	0.45	0	0.45					
В	7	0	0.21	0	0.21					
С	17	0	0.51	0	0.51					

#### TUBE INTEGRITY ASSESSMENT

Overall condition assessments have been delineated in the Surry Steam Generator Monitoring and Inspection Program Plan (SPS-SGMIPP-001), Rev. 2. These assessments are consistent with the requirements of the Nuclear Energy Institute (NEI) Guideline NEI 97-06. A pre-outage assessment was performed to identify any relevant or potential degradation mechanisms to be considered for the Surry Unit 2 steam generators and to identify the appropriate eddy current inspection scope and probe capabilities.

Performance criteria are established in this document in three areas:

- Structural Integrity Margin of 3.0 against burst under normal steady state power operation and a margin of 1.4 against burst under the most limiting design basis accident concurrent with a safe shutdown earthquake.
- Operational Leakage RCS operational primary-to-secondary leakage through one steam generator shall not exceed 150 GPD
- Accident Induced Leakage Leakage shall not exceed 1 GPM per steam generator during Main Steam Line Break (MSLB).

The inspection performed on "C" steam generator during the October 2000 outage was consistent with the Program Plan and the results formed the basis of the Condition Monitoring and Operational Assessment performed for this outage.

Condition Monitoring and Operational Assessment of the steam generator tube bundles is performed to verify that the condition of the tubes, as reflected in the inspection results, is in compliance with the plant licensing basis. Defects detected are evaluated to confirm that margins against leakage and burst were not exceeded at the end of the current operating cycle in accordance with the bounding ASME calculation. The results of the Condition Monitoring evaluation are used as a basis for an Operational Assessment, which demonstrates prospectively that the anticipated performance of the steam generators will not exceed the performance criteria margins against leakage and tube burst during the ensuing operating period.

Condition monitoring is "backward looking" and compares the currently observed inspection results for "C" steam generator against the structural and leakage integrity requirements. Additionally, an operational assessment, or "forward looking" evaluation is required to determine primarily if tube structural or leakage integrity will be challenged prior to the next scheduled inspection of "C" steam generator. In addition, an

assessment is made to verify the continued structural and leakage integrity of "A" and "B" steam generators based upon the inspection findings from "C" steam generator.

This report documents the condition monitoring and operational assessment based upon the inspection results from Surry Unit 2 "C" steam generator. The inspections were performed in October 2000. The Surry Unit 2 replacement steam generators are Westinghouse Model 51F units. These steam generator units contain thermally treated Alloy 600 tubing, full depth hydraulic expanded tube to tubesheet joints, and broached Type 405 stainless steel tube support plates.

### 1.0 Summary

The only degradation mechanism identified during the inspection of "C" steam generator was tube wear due to contact with anti-vibration bars (AVB's). Two (2) tubes (R37, C30 and R38, C34) were plugged due to wear depths exceeding the 40% Technical Specification Plugging Limit. Five (5) tubes (R43; C30; R28, C49; R35, C54; R40, C54; and R40, C57) were administratively plugged based on the projected AVB wear depth. Calculations predicted that AVB wear for the five (5) tubes would approach the ASME structural limit prior to the next inspection of "C" steam generator (scheduled for the Spring of 2005). All of the AVB indications found were below the ASME Code calculated structural limit including 3 delta P burst pressure margins for uniform wall thinning.

The condition of Surry Unit 2 "C" steam generator, as indicated by the results of the Condition Monitoring evaluation, satisfy the requirements for structural and leakage integrity margins. These conclusions are further confirmed by the lack of appreciable primary-to-secondary leakage during the last operating cycle as determined by routine testing. Evaluation of the AVB wear degradation mechanism showed no unusual progression of wear rates since the May 1996 inspection (approximately 48.4 EFPM). Projection of degradation rates for the next planned operating interval of 49.4 EFPM for "C" steam generator does not indicate that conditions exceeding structural and leakage margin requirements will occur before the end of that next planned operating interval. Thus, the Operational Assessment requirements are satisfied.

The inspection results for "C" steam generator were consistent with prior operational assessments and did not require any expansion of testing to other steam generators. No indications were detected that exceeded the structural integrity limits or could potentially challenge tube integrity margins for burst and leakage. All Operational Assessment structural and leakage integrity requirements continue to be met for the Surry Unit 2 "A", "B" and "C" steam generators. It is expected that structural and leakage integrity requirements will be met at the end of the next operating interval.

The next operating interval for "C" steam generator is planned to be 49.4 EFPM (Spring of 2005) compared with 48.4 EFPM for the past interval. Based upon the inspection results for "C" steam generator, no changes to the inspection intervals are planned for Unit 2 "A" or "B" steam generators. Inspection of Surry Unit 2 "B" steam generator is scheduled for the spring of "2002" and inspection of "A" steam generator is scheduled for the fall of "2003".

# 3.0 Surry Unit 2 – Summary of Evaluated Degradation Mechanisms, Inspection Methods, and Plan

Table 1.0 is a summary of the Surry Unit 2 tube plugging attributions prior to the Fall 2000 outage. A total of thirty-two (32) tubes were plugged in this unit prior to the Fall 2000 outage. Mechanical wear at AVB contact points and pitting were the primary degradation related cause of tube plugging. Both of the preceding modes of degradation are classified as "inactive" for all steam generators as defined by Rev. 5 of the EPRI Examination Guidelines. No corrosion related cracking degradation has been identified in Surry Unit 2.

Prior to the current outage (EOC16), ten (10) tubes were plugged in "C" steam generator. Three (3) tubes were plugged due to tube wear at AVB contact points and one (1) tube was plugged due to C/L pitting degradation in the free-span above the cold leg tubesheet. Past practice has resulted in plugging of tubes with AVB contact wear that was less than the 40% TW plugging limit. This practice was taken as a conservative measure. As indicated in the Pre-outage Assessment, a number of tubes were left in service following the 1996 inspection (EOC13) with tube wear at AVB contact points in accordance with the plugging evaluation requirements in place at that time.

As noted in Table 1.0, twelve (12) tubes have been plugged in the Surry Unit 2 steam generators due to pitting. Only one (1) of the plugged tubes was in "C" steam generator. This pit indication was left in service following the EOC13 inspection but was subsequently plugged during the EOC15 inspection of "A" steam generator. Unit 2 "C" steam generator was re-evaluated for this condition during the October 2000 outage with no additional findings.

The inspection plans for Surry Unit 2 "C" steam generator followed the philosophy established in the Surry Station Steam Generator Monitoring and Inspection Program Plan as augmented by the Pre-Outage Assessment. The inspection plans for the October 2000 outage are outlined below:

- 100% full length bobbin inspection of three thousand three hundred and thirty two (3332) tubes which equates to a 33% sample of the total tube population in all three (3) steam generators.
- Focused 3-coil rotating probe inspections at the H/L top of tubesheet of six hundred and sixty seven (667) tubes which is a 20% sample of all of the tubes in "C" steam generator. This inspection scope equates to a 60% sample of the of the Critical Area population in "C" steam generator as defined by the Surry Station Steam Generator Monitoring and Inspection Program.
- 100 % single coil Plus Point rotating probe inspection of ninety two (92) tubes in the Row 1 tube U-bend areas which equates to a 33% sample of Row 1 U-bends in all three Unit 2 steam generators.
- Rotating probe confirmation of bobbin indications per the Surry Site Specific Analysis Guidelines.

### Table 1.0 Surry Power Station Unit 2

									SUF				STAT ATTR		UNIT TES	#2											
DATE	Pr	eser	vice		Jec-8	31		lun-t	33		Apr-8			Jun-E			Oct-8	36		Jct-8	38		/ar-	91		Mar-s	<del>3</del> 3
EFPY		0.0			1.1			2.4			3.6			3.8		1	4.7			5.9			7.2			8.7	
S/G	A,	В	νCį.	<u>ن</u> ه:	B	С	A)	В	*Ç,	٨.	я <b>Р</b> з	С	,≁A <sub>n</sub>	В	C	A	eΒ,	аC;	۹Ą.	R	Ę.		В	:Ça	А	₩B	C
AVB	· · ·	С. С	42	e The <sup>a</sup>				<u></u>												······································						2	25. X
Freespan																											
Tube Pulls Foreign Object						1993					1944 A		1			<u> </u>			ni Si Cali Katika		Mary C Sec. 7	.arcarca. 257					
Pitting Anomalies					17 ( 38) 17 ( 38)																		eregi. Produčno	2 (SR)	jar ar		
Other	1		1				77,62.,	5 Å.							- 11		10 A		station NR <sup>MI</sup> N						· · · · · · · · · · · · · · · · · · ·		\$.,j
Sub-Total	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	
TOTAL		2			0		<u> </u>	0			0		r—	1		1	0			0	<u></u>	r	0			2	

DATE	F	-ep-8	95	7	Apr-S	16		Jct-9	7	ŀ	۹pr-۶	19	lot	al per	S/G		
EFPY		10.2	-		11.2		1	12.5			13.9	)					
S/G	, A,	В	С	А	В	<b>U</b>	А	В,	C	7A.	В	C	A	В	С		Total tubes plugged by category
AVB						- 3		3		<u> </u>		ļ	-0	5.	3		8 AVB
-reespan					<u></u>				· · ·	· ·			0	0	0		0 Freespan
Tube Pulls									1.2.2				0	0	0		0 Tube Pulls
Foreign Object	· · · · ·												1	0	0	r i i i i i i i i i i i i i i i i i i i	1 Foreign Objects
Pitting	4											_1	11	0	<b>_</b> 1		12 Pitting
Anomalies					-	3						l	0	0	3		3 Anomalies
Other	1		11			2		2		<u>, 1</u> .		1. <sup>1</sup> . 1	3	2	3		8 Other
	1 <u></u>						•										
Sub-Total	5	0	0	0	0	8	0	5	0	8	0	1	15		10		
																	S/G Inspected
TOTAL		5			8			5			9			-32			

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### 4.0 Condition Monitoring Assessment – Tube Integrity Evaluation

The condition monitoring assessment is an evaluation of the past operating cycle (EOC16) performance relative to structural and leakage integrity margins as compared to current inspection results. The condition of the Surry Unit 2 steam generators, as indicated by the results of the inspection performed on the "C" steam generator, satisfy the structural and leakage integrity margin for the recently completed operating period. A discussion of the inspection results and the evaluations performed is provided in the following sections.

### 4.1 **Primary Side Inspection**

No conditions indicative of corrosion degradation were noted during the eddy current inspection of Unit 2 "C" steam generator.

During the bobbin inspection, Dent (DNT) signals were reported at the 6<sup>th</sup> and 7<sup>th</sup> tube support plates. These "DNT" signals appear to be associated with contact of the tubes against the quatrefoil land and do not represent the denting issue and resultant corrosion degradation associated with drilled carbon steel support plates. A total of two hundred and fifty one (251) dented locations were identified with voltages > 2.0 volts. An increase in the number of reported "DNT" indications was experienced during this inspection. The increase resulted because the reporting threshold for "DNT" calls was changed to > 2.0 volts as compared to a reporting threshold of > 5.0 volts during the EOC13 inspection. As specified in the Surry Site Specific Eddy Current Analysis Guidelines "SRY-SGPMS-002 Rev. 4, dents or bulges > 5 volts must be re-inspected with a rotating surface riding coil unless a review of historical data confirms that the signal voltage and phase attributes are essentially unchanged from previous A total of seventy four (74) dent locations (28 hot leg and 46 cold leg) inspections. required resolution using the Plus Point probe. These inspections confirmed the "DNT" signals to result from small dents. Most of the "DNT" signals corresponded to the edge of the tube support plate and were in line with the quatrefoil lands. No crack-like or other forms of tube degradation were noted at any of the dent locations. Some support plate locations exhibited two or more dents that corresponded with the guatrefoil lands.

Other free-span bobbin signals required supplemental rotating probe examination due to insufficient history data or changes in the signal attributes relative to the previous inspection data. These were typically low voltage signals associated with manufacturing burnish marks (MBM's), local geometric variations (LGV's), or local inward displacements of the tube caused by a manufacturing impact (DNG). The signals associated with these categories do not represent in-service degradation. Nevertheless, these signals were carefully monitored for change relative to previous inspection results. If an indication had changed more than specified by the Analysis Guidelines or could not be identified in the history review, it was designated for rotating probe testing. Rotating probe inspections were performed on a total of two hundred and fifty three (253) free-span locations (70 H/L and 183 C/L). None of the locations tested exhibited signs of in-service degradation.

RPC inspection of the top of the hot leg tubesheet (HL-TTS) region was performed on six hundred and sixty seven (667) tubes. This program focused primarily on the low velocity region in the middle of the bundle. All HL-TTS signals were resolved in accordance with the analysis guidelines and no degradation was identified.

Ninety one (91) of the scheduled ninety two (92) Row 1 U-bends were inspected with a 0.680" diameter plus-point U-Bend probe. No corrosion related degradation was identified in any of the tubes. The U-Bend of tube R1, C4 could not be inspected with the 0.680" diameter plus-point U-Bend probe due to a restriction at the U-bend. A 0.620" diameter high frequency plus-point probe was used to accomplish the inspection and no degradation was identified in the tube.

During the U-bend inspection effort, signal-to-noise (S/N) measurements were made on a sample of 20 tubes at both 300 and 400 kHz. The results of the sample were compared to the EPRI qualification data used in developing ETSS #96511. These comparisons were made to determine if a high frequency plus-point probe was required at Surry to improve the S/N ratio in the U-Bend area. As is shown by Table 2.0, the average S/N values obtained at Surry are below the values reported by EPRI in developing the qualification for ETSS #96511. Therefore, no testing with the high frequency plus-point probe was deemed necessary for "C" steam generator.

		300 KHZ			
		Арех	Арех	Tangent	Tangent
		Vp-р	Vv-m	Vp-p	Vv-m
SITE	AVG.	0.83	0.26	1.30	0.60
EPRI	- ETSS 96511	1.08	0.40	1.49	0.65
	AVG.				
		400 KHZ			
		Арех	Арех	Tangent	Tangent
		Vp-p	Vv-m	Vp-p	Vv-m
SITE	AVG.	0.94	0.28	1.38	0.61
EPRI	- ETSS 96511 AVG.	1.20	0.40	1.62	0.62

### Table 2.0Signal-to-Noise Row 1 U-bend Study

Tube wear was identified in "C" steam generator at sixty-two (62) AVB intersections involving thirty-nine (39) tubes. The maximum measured depth for an AVB indication was 43% through-wall (TW) which was reported on tube R38, C34 at AV3. The indication on tube R38, C34 at AV3 was reported as 24% TW during the May 1996 inspection of "C" steam generator. Of the sixty two (62) AVB indications reported in "C" steam generator, forty one (41) indications were not reported in 1996. The largest newly reported indication was 24% TW on tube R39, C53 at AV3. The minimum reporting criteria for AVB wear in 1996 was 10% TW. In order to establish growth rates for nine (9) of the largest new indications, previous inspection data was re-evaluated to determine if the indications were present in 1996 at levels below 10% TW. The review indicated that all nine (9) of the AVB areas exhibited wear in 1996 with measured depths ranging from 2% TW to 10% TW. For the purpose of growth rate statistics, the remaining thirty two (32) new AVB areas with wear indications were assumed to contain no wear in 1996. Table 3.0 lists all tubes with AVB wear indications as well as the associated growth rate for each location. The average growth rate per cycle for the reported indications since the last inspection (1996 - 48.4 EFPM) was 3.8%. The maximum growth rate being 7.0% TW per cycle. This growth rate is approximately twice the value documented for AVB indications in the Surry Site Specific Steam Generator Program Plan as derived from prior inspections.

During the October 2000 examination of Unit 2 "C" steam generator, the Dominion ET Level III served as the independent Qualified Data Analyst. The Dominion Generation ET Level III performed random data checks as well as a final verification of the planned versus completed inspection program. No issues were noted.

#### TABLE 3.0

### SURRY UNIT 2 – October 2000 STEAM GENERATOR EDDY CURRENT INSPECTION SUMMARY – AVB PERCENT SIGNALS

Row	Column	AVB	Voltage	% TW	% TW	% Change	% TW Change
		Location	(Fall	(Fall	(Spring 1996)	(% TW in	per Cycle based
			2000)	2000)	(Less than	2000 - %TW	on 1996 data
					10% Not	in 1996)	
					Reported)		
24	8	AV2	0.25	13	<10	13	4.33
		AV4	0.27	13	<10	13	4.33
25	9	AV3	0.29	13	<10	13	4.33
38	21	AV2	0.27	12	<10	12	4
26	26	AV3	0.37	16	<10 (2)**	14	4.67
		AV4	0.31	15	<10 (5)**	10	3.33
25	27	AV2	0.29	13	<10	13	4.33
38	28	AV1	0.27	13	<10	13	4.33
		AV3	0.22	11	14	0	0
25	29	AV3	0.47	18	<10 (8)**	10	3.33
34	29	AV4	0.31	13	<10	13	4.33
37*	30 *	AV2	2.05	36	20	16	5.33
		AV3	3.17	41	21	20	6.67
		AV4	0.51	19	<10	19	6.33
40	33	AV1	0.27	12	<10	12	4
		AV2	0.53	19	16	3	1
		AV3	0.79	23	17	6	2
42	33	AV2	0.28	13	<10	13	4.33
38*	34*	AV1	0.38	16	12	4	1.33
		AV2	2.26	37	21	16	5.33
	· · · · · · · · · · · · · · · · · · ·	AV3	3.51	43	24	21	7
		AV4	1.88	35	18	17	5.67
26	39	AV3	0.34	15	<10 (4)**	11	3.67
43	39	AV2	0.49	19	<10(10)**	9	3
43*	40*	AV2	1.25	29	22	7	2.33
		AV3	0.38	16	<10	16	5.33
28*	49*	AV4	1.05	27	19	8	2.67
39	53	AV3	0.84	24	<10 (8)**	16	5.33
35*	54*	AV1	0.64	20	<10	20	6.67
		AV2	1.26	28	14	14	4.67
40*	54*	AV3	1.27	28	23	5	1.67
		AV4	0.67	21	11	10	3.33
39	55	AV3	0.67	22	14	8	2.67
		AV4	0.52	19	10	9	3
40*	57*	AV1	1.27	29	16	13	4.33
		AV2	0.38	16	<10	16	5.33

### TABLE 3.0 (Continued)

Row	Column	AVB	Voltage	% TW	% TW	% Change	% TW Change
		Location	(Fall	(Fall	(Spring 1996)	(% TW in	per Cycle based
			2000)	2000)	(Less than	2000 - %TW	on 1996 data
				,	10% Not	in 1996)	
					Reported)		
43	61	AV1	0.47	18	<10 (8)**	10	3.33
44	61	AV1	0.19	10	<10	10	3.33
37	63	AV2	0.27	12	<10	12	3
40	63	AV3	0.46	17	14	3	1
		AV4	0.49	18	13	5	1.67
31	65	AV2	0.34	15	<10 (8) **	7	2.33
40	65	AV3	0.2	10	<10	10	3.33
41	66	AV3	0.32	14	<10	14	4.67
41	67	AV2	0.22	11	<10	11	3.67
33	68	AV1	0.42	16	<10	16	5.33
		AV2	0.4	16	<10 (9)**	7	2.33
41	68	AV2	0.2	10	<10	10	3.33
31	69	AV2	0.35	15	<10	15	5
33	70	AV1	0.22	11	<10	11	3.67
_		AV2	0.19	9	<10	9	3
		AV3	0.38	15	<10	15	5
40	70	AV1	0.25	12	<10	12	4
		AV3	0.2	10	<10	10	3.33
37	73	AV3	0.4	16	<10	16	5.33
38	73	AV1	0.25	12	<10	12	4
		AV2	0.32	14	<10	14	4.67
31	75	AV3	0.33	14	11	3	1
		AV4	0.38	16	11	5	1.67
35	77	AV2	0.33	14	<10	14	4.67
		AV2	0.3	13	<10	13	4.33
27	84	AV4	0.22	11	<10	11	3.67
						Max:	7
						Mean:	3.789677419
						StdDev	1.496919205
					90% Valu +1.28*\$		5.705734002
		<u>.</u>		· · <u></u> ·	95% Value +1.65*S	e = Mean	6.304501684

Notes:

\* Location Plugged – Fall 2000 \*\* %TW based on 1996 data "Lookup Review"

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### 4.2 Operational Leakage

Routine primary-to-secondary leak monitoring is conducted in accordance with Station procedure 0-HSP-LKRATE-001. The critical leakage value requiring unit shutdown is 150 GPD/steam generator and/or a rate of change leakage limit of > 60 GPD/hour/steam generator. During the past operating cycle, no appreciable primary-to-secondary leakage was observed during plant operation.

### 4.3 **Projected Accident Leakage**

Based on the fact that no through-wall indications or indications approaching the structural limit have been reported in the Surry station steam generators, no appreciable primary-to-secondary leakage would be expected under accident induced loadings.

### 45 Condition Monitoring Conclusion

In order to demonstrate condition monitoring structural integrity, it is necessary to account for various uncertainties, which are subtracted from the structural limit. The result is then compared with the largest flaw measured. The largest measured flaw reported during the current inspection effort was a 43% TW wear indication at R38, C34. As indicated in the Surry Site Specific Steam Generator Program Plan, the structural limit using the ASME Code equation for uniform wear in a 7/8" diameter tube with a 0.050" wall thickness is 60 % through-wall (i.e., 0.020 inch remaining wall). When the total NDE uncertainty of 8.58% is added to the measured value of 43%, a Condition Monitoring limit of 51.6% is obtained. This value is well below the structural limit of 60%. Since there is no uncertainty in the ASME Code equation itself, there is no relational uncertainty that must be considered in determining the Condition Monitoring limit. Therefore, the condition of the Surry Unit 2 steam generators, as indicated by the results of the inspection performed on "C" steam generator, satisfy condition monitoring requirements for structural and leakage integrity margin for the recently completed operating period.

### 5.0 Operational Assessment: Tube Integrity and Leakage

### 5.1 Discussion

NEI 97-06 requires that a "forward looking" Operational Assessment be performed to assess degradation mechanisms. The assessment must determine if the degradation mechanisms observed in a plant will continue to meet tube structural and leakage integrity requirements at the end of the upcoming cycle when degradation mechanism growth rates and NDE uncertainty are added to the largest flaw remaining in service. The only degradation mechanism observed is Surry Unit 2 "C" steam generator during the October 2000 inspection was AVB wear. The following sections summarize the

growth rate evaluation and the NDE sizing uncertainty evaluations performed for AVB wear to support the Operational Assessment.

Based on information contained in Technical Report NE-1214, Rev. 0 "Fuel Management Scheme 1999-B," the past operating interval between inspections of "C" steam generator was 48.4 EFPM and the cumulative operating period for the replacement steam generators was 166.8 EFPM. The projected operating interval until the next inspection of "C" steam generator is approximately 49.4 EFPM.

The only degradation that is expected over the long term is wear at anti-vibration bar locations. AVB wear, if present, is reported during bobbin testing. Typically, indications begin to be reported at approximately 10% through wall and, in general, are slow growing. As was shown in Table 3.0, the average AVB wear rate per cycle was 3.8% with a maximum of 7%. These tube wear rates are similar to those seen for the Surry Unit 1 "C" steam generator during the Spring 2000 outage and are higher than those seen previously for Surry station steam generators (i.e., 2% to 5% per cycle).

An evaluation was performed to determine the AVB wear depths for locations exhibiting wear in "C" steam generator that remained in service following the October 2000 inspection. This evaluation addressed all AVB wear conditions relative to tube integrity requirements at the end of the next planned operating interval (3 Cycles – 49.4 EFPM). Table 4.0 lists the projected through wall depths for all AVB wear sites left in service for "C" steam generator.

The appropriate NDE technique performance data for bobbin probe detection and sizing of AVB wear is based upon EPRI ETSS # 96004.1. Using the EPRI database, a technique uncertainty of 4.956 % at a 90% confidence interval is obtained. The analyst uncertainty for wear measurements is obtained from the document "Capabilities of Eddy Current Data Analysts to Detect and Characterize Defects in SG Tubes" D. H. Harris, 15<sup>th</sup> Steam Generator NDE Workshop, Long Beach, CA, July 1996. The value obtained for analyst variability is 7.04 %. As discussed in EPRI Report TR-107621, R1, "Steam Generator Integrity Assessment Guidelines", dated March 2000, the total NDE uncertainty is equal to the square root of the sum of the squares of the measurement uncertainty and the analyst uncertainty. The total NDE uncertainty associated with AVB sizing is 8.58 %. Since there is no uncertainty in the ASME Code equation itself, there is no relational uncertainty that must be considered in determining the Operational Assessment limit.

### 5.2 AVB Wear Depth Projections

As discussed earlier, the AVB wear growth rates were evaluated based upon the final field data from the EOC16 inspection. The growth rate from 1996 to 2000 for each AVB wear site is detailed in Table 3.0. A summary of the information is shown below:

Maximum:	7.00% / Cycle
Mean Growth Rate:	3.79% / Cycle
Standard Deviation:	1.50% / Cycle
Number of Data Points:	62
90% CL:	5.71% / Cycle
95% CL:	6.30% / Cycle

For this Operational Assessment, the maximum individual growth seen (i.e., 7% / cycle) will be utilized as the conservative growth rate basis.

The guidance provided in the EPRI Steam Generator Integrity Assessment Guidelines: Revision 1 (TR-107621-R1) states that structural integrity should be demonstrated at the next inspection by showing that the tube meets the performance criteria with an overall uncertainty based on a probability of 0.90, evaluated at 50% confidence. Application of the maximum observed growth rate from EOC16 (R38, C34 at AV3) for the last 3 cycles results in the following projected maximum depth at the next inspection (Spring of 2005) for "C" steam generator:

Maximum AVB Wear Site Left in Service:	24 %
(R39C54 – AV3) Max Growth Adjusted for Cycle Length:	21.4 %
(7 % x 49.4/48.4 x 3)	2111 /0
NDE Sizing at 90% CL	8.58%
Projected EOC19 (3 cycles) Condition	54%

This evaluation is conservative for the following reasons:

- a) The largest growth rate from the prior inspection data is utilized. This value is greater than the 95% CL and the industry experience is that growth rates decline with increasing operating time.
- b) Generally, the largest growth rates do not occur at the largest BOC indications retained in service. Thus, the combination of the largest individual growth rate and the largest indication kept in service is conservative.

### 5.3 Operational and Accident Leakage

Although there are no findings that would indicate a concern, sensitivity to primary-tosecondary leakage events will continue to be monitored with conservatively based monitoring procedures. Incorporation of recommended leakage values as indicated in industry guidelines will be implemented as a part of the assessment of the current monitoring procedures consistent with Dominion commitments to NEI 97-06, Steam Generator Program Guideline.

It is expected that chemistry controls similar to the past cycle will be maintained throughout the next cycle. Chemistry excursions or significant changes to treatment programs will be evaluated on a case by case basis. Evaluations will include the impact on planned steam generator inspection cycles and scopes.

### 5.4 Conclusion

Based upon the results of this eddy current inspection, past inspections, and current chemistry operating practices, "C" steam generator meets the performance criteria to operate for at least three cycles before the next planned tubing inspection. No conditions were identified during the recently completed inspection that would impact the structural and leakage performance of the Unit 2 steam generators through the next planned operating interval, thereby satisfying the operational assessment.

In accordance with the Program Plan logic of general and focused tubing inspections on one steam generator per refueling cycle, the findings of this inspection are consistent with maintaining the currently planned frequency of inspection. If other issues are identified during ensuing inspections of other Surry steam generators or relevant industry findings are reported during the inspection of similar model steam generators, a review of the planned inspection intervals will be conducted. Results to date indicate that inspection intervals for Unit 2 "A" and "B" steam generators may remain as planned. Surry Unit 2 "B" steam generator is scheduled for inspection in the Spring "2002" and Surry Unit 2 "A" steam generator is scheduled for inspection in the Fall of "2003".

Results of secondary side inspections continue to demonstrate reliable operation. Continuing diligence on chemistry and FME control issues will support long term performance. Evaluation and monitoring will continue as planned. Continued awareness of any related industry issues will be observed when planning future inspections.

### Table 4.0

Row	Column	AVB Location	% Call (Fall 2000)	Projected % Call - Spring 2005
24	8	AV2	13	43
		AV4	13	43
25	9	AV3	13	43
38	21	AV2	12	42
26	26	AV3	16	46
		AV4	15	45
25	27	AV2	13	43
38	28	AV1	13	43
		AV3	11	41
25	29	AV3	18	48
34	29	AV4	13	43
		AV4	19	49
40	33	AV1	12	42
		AV2	19	49
		AV3	23	53
42	33	AV2	13	43
26	39	AV3	15	45
43	39	AV2	19	49
39	53	AV3	24	54
39	55	AV3	22	52
		AV4	19	49
43	61	AV1	18	48
44	61	AV1	10	40
37	63	AV2	12	42
40	63	AV3	17	47
		AV4	18	48
31	65	AV2	15	45
40	65	AV3	10	40
41	66	AV3	14	44
41	67	AV2	11	41
33	68	AV1	16	46
:		AV2	16	46
41	68	AV2	10	40

### End Of Cycle 19 (EOC19) % TW Depths At AVB Location Left In Service For the "C" Steam Generator

### Table 4.0 (Cont'd)

### End Of Cycle 19 (EOC19) % TW Depths At AVB Location Left In Service For the "C" Steam Generator

Row	Column	AVB Location	% Call (Fall 2000)	Projected % Call - Spring 2005
31	69	AV2	15	45
33	70	AV1	11	41
		AV2	9	39
		AV3	15	45
40	70	AV1	12	42
		AV3	10	40
37	73	AV3	16	46
38	73	AV1	12	42
		AV2	14	44
31	75	AV3	14	44
		AV4	16	46
35	77	AV2	14	44
		AV2	13	43
27	84	AV4	11	41

Note: % TW (2005) = % TW (2000) + [(7% Growth / cycle) x 49.4. / 48.4 Cycles x 3 Cycles] + 8.58%

### **Corrective Actions Planned**

None

# Evaluation (If SG condition does not meet previous cycle operational assessment)

NA

### **Glossary** of Terms

AVB ANF ANR BDA BLG DNG DNT EFPM	Anti-vibration Bars Anomaly Not Found Anomaly Not Reportable Bad Data Bulge Ding Dent Effective Full Power Months
INF	Indication Not Found
INR	Indication Not Reportable
LGV	Local Geometric Variation
MAA	Multiple Axial Anomaly
MBM	Maufacturing Buff Mark
MMB	Multiple Maufacturing Buff Mark
NDD	No Degradation Detected
NQI	Non-Quantifiable Indication
NQN	Non-Quantifiable Indication Not Confirmed
NT	No Test
NTE	No Tube Expansion
PCT	Percent Through-Wall
PID	Positive Identification Established
PLG	Plug
PVN	Permeability Variation
RST	Restriction
SAA	Single Axial Anomoly
SCA	Single Circumferential Anomaly
TIU	Tube Identity Uncertain
TEH	Tube End Hot
TSH	Tubesheet Hot
BPH	Baffle Plate Hot
1H	Hot Leg, One Hot
2H	Hot Leg, Two Hot
3H	Hot Leg, Three Hot
4H	Hot Leg, Four Hot
5H	Hot Leg, Five Hot
6H	Hot Leg, Six Hot
7H	Hot Leg, Seven Hot
AV1	U-bend, Anti-vibration Bar One
AV2	U-bend, Anti-vibration Bar Two
AV3	U-bend, Anti-vibration Bar Three
AV4	U-bend, Anti-vibration Bar Four
7C	Cold Leg, Seven Cold
6C	Cold Leg, Six Cold
5C	Cold Leg, Five Cold

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- Cold Leg, Four Cold Cold Leg, Three Cold Cold Leg, Two Cold Cold Leg, One Cold Baffle Plate Cold 4C
- 3C
- 2C
- 1C
- BPC
- **Tube Sheet Cold** TSC
- TEC Tube End Cold

Attachment 2 Surry Power Station Unit 2 Inservice Inspections Repairs and Replacements

Abstract of Examinations NIS-2 Forms

### Abstract of Examinations Performed Repair and Replacements

Repair and replacements completed for Unit 2 from May 24, 1999 through October 31, 2000 were performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code, 1989 Edition.

The following paragraphs and the attached NIS-2 forms represent those repairs and replacements performed on Class 1 and Class 2 systems:

RR# 99-074, replace studs on 2-RC-MOV-2591 under work order 00413086-01, completed on 07/11/99.

RR# 00-006, replace valve 2-DA-TV-200B under work order 00423772-01, completed on 01/28/00.

RR# 00-063, replace operator and body to bonnet bolting on 2-CH-MOV-2115C under work order 00426904-01, completed on 10/10/00.

RR# 00-064, replace valve stem disc on 2-RC-MOV-2591 under work order 00413086-24, completed on 10/8/00.

RR # 00-065, replace body to bonnet bolts on 2-RC-MOV-2591 under work order 00413086-20, completed on 10/16/00.

RR# 00-114, replace studs and nuts on 2-RC-P-1A under work order 00414752-01, completed on 10/09/00.

RR# 00-115, overhaul 2-RH-HCV-2142 and replace trim assembly under work order 00413289-01, completed on 10/12/00.

RR# 00-116, replace trim assembly on 2-RC-PCV-2456 under work order 00411069-01, completed on 10/16/00.

RR# 00-117, replace trim assembly on 2-RC-PCV-2455C under work order 00411064-01, completed on 10/16/00.

RR# 00-118, replace operating valve for 2-RH-HCV-2758 under work order 00409797-01, completed on 10/14/00.

RR# 00-122, replace 12" pipe, flange and 6" pipe on 2-RH-12.00-PIPE under work order 00403857-01, completed on 10/16/00.

RR# 00-123, replace check valve 2-CS-45 under work order 00433000-02 completed on 07/26/00.

RR# 00-129, replace studs, nuts and valve 2-DA-TV-200A under work order 00424391-01 completed on 10/18/00.

RR# 00-130, replace studs and valve, 2-DA-TV-200B under work order 00424392-01 completed on 10/19/00.

RR# 00-131, replace studs and nuts on 2-RC-SV-2551A under work order 00421144-01, completed on 10/23/00.

RR# 00-132, replace studs and nuts on 2-RC-SV-2551B under work order 00421145-01, completed on 10/22/00.

RR# 00-133, replace studs and nuts on 2-RC-SV-2551C under work order 00421146-01, completed on 10/22/00.

RR# 00-144, replace valve bonnet, studs and nuts on 2-CH-27 under work order 00435673-01, completed on 9/8/00.

RR# 00-151, replace 14" pipe and elbow on 2-FW-PPS-218 under work order 00422454-10, completed on 10/18/00.

RR# 00-153, replace studs and nuts on flow element 2-RH-FE-2605 under work order 00403857-02, completed on 10/16/00.

RR# 00-154, replace valve 2-MS-196 and 3" pipe under work order 00425593-03, completed on 10/18/00.

RR# 00-155, repair valve 2-FW-12 body under work order 0438149-01, completed on 10/13/00.

RR# 00-156, replace relief valve, studs and nuts on 2-CH-RV-2382B under work order 00421007-01; completed on 10/12/00.

RR# 00-157, replace studs and nuts on 2-RC-MOV-2535 under work order 00438176-01, completed on 10/25/00.

RR# 00-158, U-bolt added to hanger H-2 on 2-RC-PP-12.00-RC-PIPE-310-2501R under work order 00438144-01, completed on 10/19/00.

RR# 00-159, replace relief valve 2-CH-RV-2203 under work order 00413896-01, completed on 10/12/00.

RR# 00-162, replace valve 2-IA-704 under work order 00438377-01, completed on 10/21/00.

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

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

1. Owner <u>Virginia Electric &amp; Power Company</u> Name	Date_July_16, 1999	
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet of1	
2. Plant Surry Power Station Name	Unit: <u>2</u>	
5570 Hog Island Road, Surry, VA 23883 Address	R/R 99-074 Work Order 004130 Repair Organization P.O.	086-01 No. Job No. , etc.
3. Work Performed By <u>Virginia Electric &amp; Power Company</u> Name	Type Code Symbol Stamp Authorization No	N/A N/A
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Expiration Date	N/A
4. Identification of System Reactor Coolant		

\_19<u>55</u> Edition, <u>N/A</u>Addenda, <u>N-1 through N-13</u>Code Case 5. (a) Applicable Construction Code ANSI B31.1 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition with Summer 1983 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No	Other Identification	Year Built	Repaired. Replaced. Or Replacement	ASME Code Stamped (Yes or No)
Stud	Anchor/Darling	Heat #41549	N/A	02-RC-MOV-2591	N/A	Replacement	No
		_					

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7. Description of Work Replaced Studs 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure °F Test Temp.

Other Pressure \_\_\_\_\_

psi

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8<sup>1</sup>/<sub>2</sub> 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.

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017 (12/82)

	Bemarks P.O.#CNT450013(Studs)
•	Applicable Manusacturer's Data Reports to be attached
	-
-	CERTIFICATE OF COMPLIANCE
	CENTIFICATE OF Court Endors
	ASME Code, Section XI.
	NA
	Type Code Symbol StampNA
	Certificate of Authorization No. NA Expiration Date NA
	Signed L. L. Locas ISI Constrained Date 2/16/99
	Signed
	CERTIFICATE OF INSERVICE INSPECTION
	the stand by the National Result of Rolles and Pressure Vessel inspectors and the State
	or Province of Virginiaand employed by HSB1 and 1 COof
	Hartford, Cthave inspected the components described
	in this Uwner's Hupbrit during the period
	to the best of my knewledge and belief, the Owner has performed exeminations and taken corrective mgasures 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
	By signing this certificate neutrer the importor nor his employer makes any variancy, appreciate or white, containing 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.
	Va BB3(Z)
	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. Va. $883(R)$ Inspection's Signature Date 7/16 19.72
	Date $7/16_{19}.99$

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

1. Owner Virginia Electric & Power Company	Date	May 30, 2000
Name		
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet <u>1</u> of <u>1</u>	
2. Plant Surry Power Station Name	Unit: <u>1 2</u>	
5570 Hog Island Road, Surry, VA 23883	R/R-00-006 W.Q.00423772-01	
Address	Repair Organization P.O.	No. Job No., etc.
3. Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp	N/A
Name	Authorization No.	N/A
5000 Dominion Blvd., Glen Allen, VA 23060	Expiration Date	N/A
Address		

4. Identification of System Drains Aerated

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
2° Trip Valve	N/A	N/A	N/A	Mark #38-02-DA- TV-200B-Valve	N/A	Replacement	No

F

7. Description of Work Replaced Valve/Actuator with Refurbished.

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is  $8^{1}/_{2}$  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.

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Installed Rebuilt Spare. Quality Documents Reviewed At Initial Installation. 9. Remarks Applicable Manufacturer's Data Reports to be attached CERTIFICATE OF COMPLIANCE\_ repair or replacement ASME Code, Section X1. NA Type Code Symbol Stamp. NA NA Expiration Date Certificate of Authorization No. IST ENGINEER 10 ZUDD 70 \_ Date Signed ìn 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 VITGINIA and employed by HSBI and I CD. or Province of VITGINIA and employed by.... Hartford, Ct. have inspected the components described 6114/00 131/00 \_, and state that in this Owner's Report during the period. 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 Va. 883 (C) National Board, State, Province, and Endorsements 6/14/ 2000 Date.

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

Date November 30, 2000	
Sheet _1 of 2	
Unit: _2	
R/R 00-063 W.O. 00426904-01 Repair Organization P.O. N	lo. Job No. , etc.
Type Code Symbol Stamp	<u>N/A</u>
	N/A
Expiration Date	N/A
	Sheet _1 of2           Unit: _2

 Identification of System <u>Charging</u>
 (a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Buitt	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
9/16* Stud	Mackson, Inc.	Heat #516984 Heat Code JYU	N/A	Mark #38-02-CH- MOV-2115C-Vaive	N/A	Replacement	No
9/16" Hex Nut	Mackson, Inc.	Heat #40544	N/A	Mark #38-02-CH- MOV-2115C-Valve	N/A	Replacement	No

Ξ

8. Tests Conducted:	Hydrostatic Pneumatic	Nominal Oper	ating Pressure	
		psi	Test Temp	°F

7. Description of Work Replace Operator / Body to Bonnet Bolting

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.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

ADDIICEC	ble Manufacturer's Date Reports to be attached	
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· · · · · · · · · · · · · · · · · · ·		
	TIFICATE OF COMPLIANCE	<u></u>
We certify that the statements made in the ASME Code, Section XI.	e report are correct and this <u>publicatest</u> repair or replacement	conforms to the rules of the t
Type Code Symbol StampNA		
$\bigcap$	Expiration Date NA	18 <u>00</u> 20
CERTIF	ICATE OF INSERVICE INSPECTION	
the undersigned, holding a valid commission issue or Province of <u>V1701113</u> and employed		/essel inspectors and the Sta
HETTIOTE, CL.		d the components describe
o the best of my knowledge and belief, the Owne Owner's Report in accordance with the requirement		tive measures described in th
By signing this certificate neither the Inspector xaminations and corrective measures described in hall be liable in any manner for any personal injur		ne inspector nor his employ
nspection		

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

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

1. Owner Virginia Electric & Power Company	Date	November 15, 2000
Name		
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet <u>1</u> of <u>2</u>	
2. Plant Surry Power Station Name	Unit: _2	
and the later d Deed, Sume VA 23883	R/R 00-064 W.O.00413086-24	
5570 Hog Island Road, Surry, VA 23883 Address	Repair Organization P.O. N	lo. Job No. , etc.
3. Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp	N/A
3. Work Performed by <u>virginia cleana a rower company</u>	Authorization No.	
5000 Dominion Blvd., Glen Allen, VA 23060	Expiration Date	N/A
Address		
4. Identification of System Reactor Coolant		

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
Valve Disc	Anchor Darling	Heat #N147	NA	Mark #02-RC- MOV-2591	N/A	Replacement	No

Ξ

7. Description of Work Assemble Valve Stem Disc

8.	Tests Conducted:	Hydrostatic Pneumati	Nominal Oper	ating Pressure	
		Other Pressure	 psi	Test Temp	 °F

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

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

9. Remarks P.O. SSY-173265 (Valve Disc)

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Applicable Manufacturer's Data Reports to be attached

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•=-	TIFICATE OF COMPLIANCE
We certify that the statements made in t ASME Code, Section X1.	he report are correct and this <b>_POBLAGET</b> conforms to the rules of the repair or replacement
ype Code Symbol StampNA	
Certificate of Authorization No	Expiration Date NA
~	ENGINE Date 11/22 19.00
CERTI	
the undersigned, holding a valid commission issu	ed by the National Board of Boiler and Pressure Vessel Inspectors and the State
Province of VITGINIA and emp	bloyed by HSBI and I CD.
Province of VITGINIA and emp Hartford, CL.	bloved by <u>HSBI and J Co</u> of
Province of VITGINIA and emp HATTIOTG, CL.	bloved by <u>HSBI and I CD</u> . of have, inspected the components described <u>3/21/00 to 1//27/00</u> , and state that
Province of VITGINIA and emp HATTIOTS, CL. this Owner's Report during the period the best of my knowledge and belief, the Own	have inspected the components described 3/2//00 to ///27/00 described and state that her has performed examinations and taken corrective measures described in this
Province of VITGINIA and emp HATTIOTO, CL. this Owner's Report during the period the best of my knowledge and belief, the Own owner's Report in accordance with the requirement	bloyed by <u>HSBI and I CD</u> . of have, inspected the components described <u>3/2//0D to ///27/D D</u> , and state that her has performed examinations and taken corrective measures described in this has of the ASME Code, Section XI.
Province of VITGINIA and emp HATTIOFG, CL. this Owner's Report during the period the best of my knowledge and belief, the Own wher's Report in accordance with the requirement By signing this certificate neither the Inspector	bloyed by <u>HSBI and I CD</u> . of have, inspected the components described <u>3/2//0D to ///27/D D</u> , and state that her has performed examinations and taken corrective measures described in this has of the ASME Code, Section XI. or nor his employer makes any warranty, expressed or implied, concerning the
Province of VITGINIA and emp HATTIOTO, CL. this Owner's Report during the period the best of my knowledge and belief, the Own wher's Report in accordance with the requirement By signing this certificate neither the Inspector kaminations and corrective measures described	have, inspected the components described <u>3/21/00 to 1/27/00</u> , and state that her has performed examinations and taken corrective measures described in this hts of the ASME Code, Section XI. or nor his employer makes any warranty, expressed or implied, concerning the in this Owner's Report. Furthermore, neither the Inspector nor his employer
Province of <u>VITGINIA</u> and emp <u>HATTIOTO, CE</u> . In this Owner's Report during the period the best of my knowledge and belief, the Own owner's Report in accordance with the requirement By signing this certificate neither the Inspector xaminations and corrective measures described half be liable in any manner for any personal inju-	bloyed by <u>HSBI and I CD</u> . of have, inspected the components described <u>3/2//0D to ///27/D D</u> , and state that her has performed examinations and taken corrective measures described in this has of the ASME Code, Section XI. or nor his employer makes any warranty, expressed or implied, concerning the
Province of <u>VITGINIA</u> and emp <u>HATTIOTO, CE</u> . In this Owner's Report during the period the best of my knowledge and belief, the Own owner's Report in accordance with the requirement By signing this certificate neither the Inspector xaminations and corrective measures described half be liable in any manner for any personal inju-	have inspected the components described <u>3/21/00</u> to <u>1/27/00</u> , and state that her has performed examinations and taken corrective measures described in this has of the ASME Code, Section XI. for nor his employer makes any warranty, expressed or implied, concerning the in this Owner's Report. Furthermore, neither the Inspector nor his employer ury or property damage or a loss of any kind arising from or connected with this Commissions Va. BB3(2)
Province of VITGINIA and emp HATCIOFG, CL. In this Owner's Report during the period the best of my knowledge and belief, the Own Owner's Report in accordance with the requirement By signing this certificate neither the Inspecto xaminations and corrective measures described	have, inspected the components described <u>3/21/00 to</u> <u>1/27/00</u> , and state that her has performed examinations and taken corrective measures described in this has of the ASME Code, Section XI. for nor his employer makes any warranty, expressed or implied, concerning the in this Owner's Report. Furthermore, neither the Inspector nor his employer any or property damage or a loss of any kind arising from or connected with this

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

1. Owner Virginia Electric & Power Company Name	Date November 15, 2000	
5000 Dominion Blvd., Glen Allen, VA. 23060 Address	Sheet1 of2	
2. Plant Surry Power Station Name	Unit: _2	
5570 Hog Island Road, Surry, VA 23883 Address	R/R 00-065 W.O. 00413086-20 Repair Organization P.O. 1	No. Job No. , etc.
3. Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp	N/A
Name	Authorization No.	N/A
5000 Dominion Blvd., Glen Allen, VA 23060	Expiration Date	N/A
Address		

4. Identification of System Reactor Coolant

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No	National Board No.	Other Identification	Year Buitt	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
Bonnet Stud Nut	Anchor Darling	Heat #531923	N/A	Mark #38-02-RC- MOV-2591-Valve	N/A	Replacement	No
Bonnet Studs	Anchor Darling	Heat #41549	N/A	Mark #38-02-RC- MOV-2591-Valve	N/A	Replacement	No
1 1/8" Hex Nut	Mackson, Inc	Heat #1-8023J0	N/A	Mark #38-02-RC- MOV-2591-Vaive	N/A	Replacement	No
1 1/8" Stud	Mackson, Inc.	Heat #11863	N/A	Mark #38-02-RC- MOV-2591-Valve	N/A	Replacement	No
					1		

7 Description of Work Replace Two Body To Bonnet Bolts

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is  $8^{1}/2$  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.

(12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

## 9. Remarks P.O. CSY-154208 (Bonnet Stud Nut ) P.O. CNT-450013 ( Bonnet Stud)

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Applicable Manufacturer's Data Reports to be attached P.O. BNT-467650 (Hex Nut ) P.O. CNT-575929 (Stud )

	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this <u>personant</u> conforms to the rules of the ASME Code, Section X1.
	Type Code Symbol StampNA
	Certificate of Authorization No. NA Expiration Date NA
	Signed U. I. Rocers IST Extruction Date 1/22 - 3 00 Owner or Owner's Designee, Title
_	
	CERTIFICATE OF INSERVICE INSPECTION
	i, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stat or Province of VITGINIA and employed by HSBI and I Co.
	Harriord, CL. have inspected the components described in this Owner's Report during the period 3/2//00 to 1//27/00, and state that
	to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
	Owner's Report in accordance with the requirements of the ASME Code, Section XI.
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning th
	examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employe
	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,
	Va. 887 (R)

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

1. Owner Virginia Electric & Power Company Name	Date December 18, 2000	
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _ 1 of2	
2. Plant Surry Power Station Name	Unit: <u>2</u>	
5570 Hog Island Road, Surry, VA 23883 Address	<u>R/R 00-114</u> W.O. 00414752-0 Repair Organization P.O.	1 No. Job No. , etc.
3. Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp	N/A
Name	Authorization No.	N/A
5000 Dominion Blvd., Glen Allen, VA 23060	Expiration Date	N/A
Address		

4. Identification of System Reactor Coolant

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No	Other identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
Studs	Framatone Industnes	Heat #G6779	N/A	Mark #38-02-RC-P- 1A	N/A	Replacement	No
Nuts	Framatone Industnes	Heat #G6779	N/A	Mark #38-02-RC-P- 1A	N/A	Replacement	No

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7. Description of Work Replacement of RCP 1A Main Flange Bolts per DCP-98-083

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

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.

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(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

	P.O.BKI-575904 (Studs & Nuts) Applicable Manufacturer's Data Reports to be attached
<u></u>	
	CERTIFICATE OF COMPLIANCE
Ŵ	e certify that the statements made in the report are correct and thisConforms to the rules of the repair or replacement
ASME Code	e, Section XI.
Type Code S	Symbol StampNA
Cartificata o	Authorization No. NA Expiration Date NA
Certificate	
Signe	h. Logue IST ENGINEER Dave 12/18 2900
	wher or Ovurler's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
I, the under	signed, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta
or Province	of VITGINIA and employed by HSBI and I Cp.
Harti	DTC, CL. have inspected the components describe
	er's Report during the period, and state th
	of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in th
- ,	port in accordance with the requirements of the ASME Code, Section X1.
	ng this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning t
	is and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employ
	ile in any manner for any personal injury or property damage or a loss of any kind arising from or connected with th
inspection.	
<u></u>	
	The spector's Signature Commissions VE - DO-(K) National Board, State, Province, and Endorsements

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Virginia Electric & Power Company	Date	November 8, 2000
Name 5000 Dominion Blvd., Glen Allen, VA 23060	Sheet _ 1 of 2	
Address 2. Plant Surry Power Station Name	Unit: _2	
5570 Hog Island Road, Surry, VA 23883 Address	<u>R/R 00-115. W. O.#00413289-01</u> Repair Organization P.O. No.	Job No. , etc.
3. Work Performed By <u>Virginia Electric &amp; Power Company</u> Name	Type Code Symbol Stamp Authorization No	N/A
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Expiration Date	<u>N/A</u>

4. Identification of System Residual Heat

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No	National Board No	Other Identification	Year Buitt	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
Plug (Trim Assembly)	Copes-Vuican, inc.	Heat #521584	N/A	Mark #38-02-RH- HCV-2142-Valve	N/A	Replacement	No
		1					
7. Description of Wo	ork Overhaul Valve/R	eplace Trim Asse	mbly				

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8<sup>1</sup>/<sub>2</sub> 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.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

9. Bemarks P.O.45011834 (Plug -Trim Assembly)

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Applicable Manufecturer's Data Reports to be attached

CERT	TIFICATE OF COMPLIANCE
We certify that the statements made in the	e report are correct and this <b>presented to conforms</b> to the rules of the
ASME Code, Section XI.	repair or replacement
Type Code Symbol StampNA	
Certificate of Authorization No.	Expiration Date NA
<b>A</b> .	NGINEtt Date 11/22 19 ec
	ICATE OF INSERVICE INSPECTION
	d by the National Board of Boiler and Pressure Vessel Inspectors and the Stat
	oved by HSBI and I Coo
Hartiord, CL.	have inspected the components describe
in this Owner's Report during the period	6 //3 / 10 to to, and state the
to the best of my knowledge and belief, the Owne	er has performed examinations and taken corrective measures described in th
Owner's Report in accordance with the requirement	is of the ASME Code, Section XI.
By signing this certificate neither the inspector	nor his employer makes any warranty, expressed or implied, concerning th
examinations and corrective measures described in	n this Owner's Report, Furthermore, neither the Inspector nor his employ
	y or property damage or a loss of any kind arising from or connected with th
INSPECTION	
inspection.	Va. 882(R)
Inspection.	Commissions Va. B82(R) National Board, State, Province, and Endorsements

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Attachment 2 Page 11 of 30 Serial No.: 01-021 Docket No.: 50-281

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

As Required by the Provisions of the ASME Code Section XI

1. Owner <u>Virginia Electric &amp; Power Company</u> Name	Date November 23, 2000
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _1 of2
2. Plant Surry Power Station Name	Unit: _2
STRUCE Lead Dead Sum/ VA 23883	R/R 00-116_W.O. 00411069-01
5570 Hog Island Road, Surry, VA 23883 Address	Repair Organization P.O. No. Job No. , etc.
3. Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp N/A
Name	Authorization NoN/A
5000 Dominion Blvd., Glen Allen, VA 23060	Expiration DateN/A
Address	

4. Identification of System Reactor Coolant

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired. Replaced, Or Replacement	Code Stamped (Yes or No)
Copes-Vuican	Heat #524603	N/A	Mark #38-02-RC- PCV-2456-Valve	N/A	Replacement	No
<u> </u>						
	Manufacturer	Manufacturer Serial No.	Name of Manufacturer Board Manufacturer Serial No. No.	Name of Manufacturer         Manufacturer         Board No.         Other Identification           Copes-Vuican         Heat #524603         N/A         Mark #38-02-RC-	Name of Manufacturer         Manufacturer         Board No.         Other         Year Built           Copes-Vuican         Heat #524603         N/A         Mark #38-02-RC-         N/A	Name of Manufacturer     Manufacturer Senal No.     No.     Other Identification     Year Built     Replaced, Or Replacement       Copes-Vulcan     Heat #524603     N/A     Mark #38-02-RC-     N/A     Replacement

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Description of Work Install Converter Kit/Trim Assembly
 Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure

Other Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_

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.

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(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

9. Remarks P.O. 45020273 (Trim Assembly-Plug)

Applicable Menufacturer's Data Reports to be attached

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	(	CERTIFICATE OF COMP	LIANCE		
We certify ASME Code, Section	that the statements made of XI.	in the report are correct ar	nd this <b>public final</b> - repair or repla		o the rul <b>es of th</b> e
Type Code Symbol !	itamp <u>NA</u>				
Certificate of Autho Signed Swner or I		ISI Ewant		/	3 al 19 2000
or Province of HATIERE,	olding a valid commission TGINIAand (	HSBI	and of Boiler and Pre	spected the com	ponents describe
to the best of my k Owner's Report in a	nort during the period nowledge and belief, the ( ccordance with the require entificate neither the Inspi	Owner has performed exam ments of the ASME Code,	Section XI.	corrective measure	
	prrective measures describ manner for any personal		······································	· · · · · · · · · · · · · · · · · · ·	
Inspection.				<b>`</b>	
Inspection.			Va. 882 (R National Board, S	tate, Province, and	d Endorsements

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

As Required by the Provisions of the ASME Code Section XI

Date_ <u>November 20, 2000</u>	
Sheet _1 of2	
Unit: <u>2</u>	
R/R 00-117 W.O.00411064-01 Repair Organization P.O. I	No. Job No. , etc.
Type Code Symbol Stamp	N/A
Authorization No.	N/A
Expiration Date	N/A
	Sheet _1of           Unit: _2          R/R 00-117_W.O.00411064-01           Repair Organization P.O. I          Type Code Symbol Stamp           Authorization No

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
Trim Assembly (Plug)	Copes – Vulcan	Heat #524603	N/A	Mark #38-02-RC- PCV-2455c-Valve	N/A	Replacement	No
		<u> </u>					<u> </u>

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

7. Description of Work Install Converter Kit/Trim Assembly

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.

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(12/82)

	Applicable Manufacturer's Data Reports to be attached
· · · · · · · · · · · · · · · · · · ·	
<u> </u>	
We certify that the state	ements made in the report are correct and this <b>seniormet</b> conforms to the rules of the
ASME Code, Section XI.	repair or replacement
	•
Type Code Symbol Stamp <u>NA</u>	
Certificate of Authorization No	NA Expiration Date NA
Certificate of Authorization No.	
Certificate of Authorization No	NA Expiration Date NA ISI ENGINIEE Date 11/22 18 2000
ask.	
ask.	and ISI ENGINEEL Date 11/22 18 2000
Signed Owner or Owner Desig	CERTIFICATE OF INSERVICE INSPECTION
Signed Owner or Owner Desig	CERTIFICATE OF INSERVICE INSPECTION
the uncersigned holding a valid	CERTIFICATE OF INSERVICE INSPECTION
the uncersigned holding a valid Hartford, CL.	CERTIFICATE OF INSERVICE INSPECTION
the uncersigned holding a valid or Province of VITBINIA HATIOTE. CL.	CERTIFICATE OF INSERVICE INSPECTION d commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta and employed by HSBI and I CD. 6/15/00 have vispected the components describ the period $M^5 + 3/7/00$ to $13/5/00$ , and state the
the uncersigned holding a valid or Province of VITBINIA HATTIOTE. CT. n this Owner's Report during the o the best of my knowledge and	CERTIFICATE OF INSERVICE INSPECTION d commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stational and employed by HSBI and I CD. 6/15/00 have inspected the components described the period $M^{-} + 3/7/00$ to $12/5/00$ , and state the d belief, the Owner has performed examinations and taken corrective measures described in the
the uncersigned holding a valid or Province of VITGINIA HATTIOTE. CT. In this Owner's Report during the Dwner's Report in accordance with	CERTIFICATE OF INSERVICE INSPECTION d commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State and employed by <u>HSBI and I Co</u> . 6//5/00 have inspected the components describe the period $M^2 + 3/7/00$ to $12/5/00$ , and state the d belief, the Owner has performed examinations and taken corrective measures described in the th the requirements of the ASME Code, Section XI.
Signed Owner or Owner Designed Owner or Owner Designed holding a valid or Province of VITGINIA HATTIOTE, CL. In this Owner's Report during the Owner's Report in accordance with By signing this certificate neutron	CERTIFICATE OF INSERVICE INSPECTION d commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta and employed by <u>HSBI and I Co</u> . G/15/00 have inspected the components describ the period $M^2 - 43/7/00$ to $13/5/00$ , and state the d belief, the Owner has performed examinations and taken corrective measures described in the th the requirements of the ASME Code, Section XI. there the Inspector nor his employer makes any warranty, expressed or implied, concerning to
Signed Owner or Owner Designed Owner or Owner Designed holding a valid or Province of VITGINIA HATTIOTE. CL. In this Owner's Report during the Owner's Report in accordance with By signing this certificate neu-	CERTIFICATE OF INSERVICE INSPECTION d commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta and employed by <u>HSBI and I Co</u> . <u><math>G/15/00</math></u> have inspected the components describ the period <u><math>M^5 + 44 + 7/00^6</math></u> to $12/5/00$ , and state the d belief, the Owner has performed examinations and taken corrective measures described in the th the requirements of the ASME Code, Section XI. there the Inspector nor his employer makes any warranty, expressed or implied, concerning to asures described in this Owner's Report. Furthermore, neither the Inspector nor his employ
Signed Owner or Owner Designed Owner or Owner Designed holding a valid or Province of VITBINIA HATTOTC. Ct. In this Owner's Report during the Owner's Report in accordance with By signing this certificate neutrinations and corrective mea- shall be liable in any manner for	CERTIFICATE OF INSERVICE INSPECTION d commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta and employed by <u>HSBI and I CD</u> . G//5/0D have inspected the components describe the period $M^5 + 3/5/DD$ to $13/5/DD$ , and state the d belief, the Owner has performed examinations and taken corrective measures described in the
Signed Owner or Owner Designed Owner or Owner Designed holding a valid or Province of VITGINIA HATTIOTE. CL. In this Owner's Report during the Owner's Report in accordance with By signing this certificate neu-	CERTIFICATE OF INSERVICE INSPECTION d commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta and employed by <u>HSBI and I CD</u> . G//5/OD have inspected the components describ the period $M^2 + 3/5/DD$ to $12/5/DD$ , and state the d belief, the Owner has performed examinations and taken corrective measures described in the the the requirements of the ASME Code, Section XI. there the Inspector nor his employer makes any warranty, expressed or implied, concerning to any personal injury or property damage or a loss of any kind arising from or connected with the
Signed Owner or Owner Designed Owner or Owner Designed holding a valid or Province of VITBINIA HATTOTC. Ct. In this Owner's Report during the Owner's Report in accordance with By signing this certificate neutrinations and corrective mea- shall be liable in any manner for	CERTIFICATE OF INSERVICE INSPECTION d commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta and employed by <u>HSBI and I Co</u> . <u><math>G/15/00</math></u> have inspected the components describ the period <u><math>M^5 + 44 + 7/00^6</math></u> to $12/5/00$ , and state the d belief, the Owner has performed examinations and taken corrective measures described in the th the requirements of the ASME Code, Section XI. there the Inspector nor his employer makes any warranty, expressed or implied, concerning to asures described in this Owner's Report. Furthermore, neither the Inspector nor his employ

. Owner <u>Virginia Electric &amp; Power Company</u> Name	Date November 15, 2000	
000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _1 of2	
Plant <u>Surry Power Station</u> Name	Unit: _2	
570 Hog Island Road, Surry, VA 23883 Address	R/R 00-118 W.O.00409797-01 Repair Organization P.O. N	lo. Job No. , etc.
	Type Code Symbol Stamp	N/A
Work Performed By <u>Virginia Electric &amp; Power Company</u> Name	Authorization No.	<u>N/A</u>
000 Dominion Blvd., Glen Allen, VA 23060	Expiration Date	N/A
Address		

4. Identification of System Residual Heat

5. (a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Buitt	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
1 1/8 Hex Nut	Mackson, Inc.	Heat #6072700	N/A	Mark #38-02-RH- HCV-2758-Valve	N/A	Replacement	No
1 1/8 Stud	Mackson, Inc.	Heat #79734	N/A	Mark #38-02-RH- HCV-2758-Valve	N/A	Replacement	No
12" Butterfly Valve	Fisher Controls	Heat #626109	N/A	Mark #38-02-RH- HCV-2758-Valve	N/A	Replacement	No
							<u> </u>

7. Description of Work Replace Operating Valve

7

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

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.

(12/82)

### 9. Remarks P.O. SNT-367468 (12" Butterfly Valve ) P.O. BNT-467650 (1 1/8 Hex Nut) Applicable Manufacturer's Data Reports to be attached

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P.O. CNT-549563 (1 1/8 Stud)

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CE	RTIFICATE OF COMPLIANCE
We certify that the statements made in ASME Code, Section X1.	the report are correct and this <u>repair or replacement</u> conforms to the rules of the repair or replacement
Type Code Symbol StampNA	
Certificate of Authorization No. NA Signed Winer br Owner Designee, Title	Expiration Date NA Expiration Date NA Expiration Date NA NA NA NA NA NA NA NA NA NA
CERT	
	ued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of VITGINIA and em HATIIOTE, CL.	hploved by <u>HSBI and I CD</u> of
or Province of VITGINIA and em HATTIOTO, CT.	heloved by <u>HSBI and I CO</u> of have inspected the components described 
or Province of VITGINIA and em HATTIOTE, CT. In this Owner's Report during the period	hploved by <u>HSBI and I CO</u> of have inspected the components described 7/7/00 to <u>11/27/00</u> , and state that oner has performed examinations and taken corrective measures described in this
or Province of VITGINIA and em HATIFOIG, CT. In this Owner's Report during the period	hploved by HSBI and I CDo have inspected the components described 7/7/00to/27/00, and state that oner has performed examinations and taken corrective measures described in this
or Province of VITGINIA and em HATIFOIG, CT. In this Owner's Report during the period to the best of my knowledge and belief, the Ow Owner's Report in accordance with the requirement By signing this certificate neither the Inspect	hploved by <u>HSBI and I Co</u> o have inspected the components described <u>7/7/00</u> to <u>11/27/00</u> , and state that oner has performed examinations and taken corrective measures described in this ents of the ASME Code, Section XI.
or Province of VITGINIA and em HATTIOTC, CT. In this Owner's Report during the period to the best of my knowledge and belief, the Ow Owner's Report in accordance with the requirement By signing this certificate neither the Inspect examinations and corrective measures described	have inspected the components described have inspected the components described 7/7/00 to 1/27/00, and state that wher has performed examinations and taken corrective measures described in this ents of the ASME Code, Section XI. for nor his employer makes any warranty, expressed or implied, concerning th
or Province of VITGINIA and em HATTIOTC, CT. In this Owner's Report during the period to the best of my knowledge and belief, the Ow Owner's Report in accordance with the requirement By signing this certificate neither the Inspect examinations and corrective measures described	have inspected the components described have inspected the components described 7/7/00 to 11/27/00, and state that wher has performed examinations and taken corrective measures described in this ents of the ASME Code, Section XI. for nor his employer makes any warranty, expressed or implied, concerning the in this Owner's Report. Furthermore, neither the Inspector nor his employee

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1. Owner Virginia Electric & Power Company	Date December 13, 200	<u>10</u>
Name		
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet of2	-
2. Plant Surry Power Station Name	Unit: _2	_
5570 Hog Island Road, Surry, VA 23883 Address	R/R 00-122 W.O. 00403857-01 Repair Organization P.O. No. Job No. , etc.	
3. Work Performed By Virginia Electric & Power Company	Type Code Symbol StampN/A	
Name	Authorization NoN/A	_
5000 Dominion Blvd., Glen Allen, VA 23060	Expiration Date N/A	
Address		
4. Identification of System Residual Heat		<u> </u>

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
12 * Pipe Flange	Heat #26411	Energy & Process Corp.	N/A	Mark #38-02-RH- 12.00-Pipe	N/A	Replacement	No
12" Pipe	Heat #27882	Energy & Process Corp.	N/A	Mark #38-02-RH- 12.00-Pipe	N/A	Replacement	No
6° Pipe	Heat #SW481	Dubose National Energy Services	N/A	Mark #38-02-RH- 12.00-Pipe	N/A	Replacement	No
·····							

7. Description of Work Replace 12" Piping / N-416-1 Code Case Applies

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is  $8^{1}/2$  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.

	P.O. 45047645 (12" Pipe Flange ) P.O. 45013604 (12 " Pipe ) P.O. CNT-452680 (6 " Pipe '
	· · · · · · · · · · · · · · · · · · ·
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this conforms to the rules of the
ASME C	repair or replacement
<i></i>	
Type Coo	ie Symbol StampNA
Certificat	e of Authorization NoExpiration Date
1	Why trees ISI Engineer pore 12/18 1000
Signed	W-Y COCK ISI CNGINEA Date 12/18
	Uwher or Uwinger's Designee, Little
	CERTIFICATE OF INSERVICE INSPECTION
	dersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sti
	ce of VITUINIAand employed byHSBI and I Co TIOTE, CIhave, inspected the components describ
in this C	when s report during the period to be the terms to to
	ist of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in t
	Report in accordance with the requirements of the ASME Code, Section XI.
By si	ining this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning t
	ions and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employ
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 t
Inspectio	
	///Space/// ye are (2)
	Commissions Va. BB? (2)
	Annual Bank Bank Bank Bank
	Inspector's Signature National Board, State, Province, and Endorsements
	Inspector's Signeture / National Board, State, Province, and Endorsements

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1. Owner <u>Virginia Electric &amp; Power Company</u> Name	Date December 13, 2000
5000 Dominion Blvd., Glen Allen, VA_23060 Address	Sheet _ 1 of 2
2. Plant Surry Power Station Name	Unit: _2
5570 Hog Island Road, Surry, VA 23883	R/R 00-123 W.O.00433000-02
Address	Repair Organization P.O. No. Job No. , etc.
3. Work Performed By Virginia Electric & Power Company	Type Code Symbol StampN/A
3. Work Performed by <u>vignila Lieculo d'i Ower Composit</u>	Authorization NoN/A
5000 Dominion Blvd., Glen Allen, VA 23060	Expiration DateN/A
Address	

4. Identification of System Containment Spray

(a) Applicable Construction Code <u>ANSI B31.1</u> <u>1955</u> Edition, <u>N/A</u> <u>Addenda</u>, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>1989</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No	Other Identification	Year Buitt	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
2" Cneck Valve	Framatone Technologies	Heat #BJ124 Senal #941081	N/A	Mark #38-02-CS-45	1994	Replacement	No
	· · · · · · · · · · · · · · · · · · ·						

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7. Description of Work Replace 2\* Check Valve and Piping / Code Case N-416-1 Applies

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure

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

9	Remarks	P.O.	CNT-	559011	(2)	" Check	Val	ve	)
•									2

Applicable Manufacturer's Data Reports to be attached

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	RTIFICATE OF COMPLIA		
We certify that the statements made in ASME Code, Section XI.	the report are correct and t	his <b>pealectatet</b> conform repair or replacement	ns to the rules of the
Type Code Symbol StampNA			
Certificate of Authorization No. NA	Expi	ration Date NA	1000
	IFICATE OF INSERVICE	INSPECTION	/
or Province of Virginia and em			of
In this Owner's Report during the period			components described
In this Owner's Hepolit during the period	11 400	to 12/18/2000	, and state that
to the best of my knowledge and belief, the Ow Owner's Report in accordance with the requirement	mer has performed examination	ations and taken corrective me	·
to the best of my knowledge and belief, the Ow	vner has performed examination ents of the ASME Code, Sec	ations and taken corrective me ation XI,	asures described in this
to the best of my knowledge and belief, the Ow Owner's Report in accordance with the requireme	iner has performed examina ents of the ASME Code, Sec for nor his employer makes I in this Owner's Report. I	ations and taken corrective me ation XI. any warranty, expressed or in Furthermore, neither the Inspe	asures described in this mplied, concerning the actor nor his employe
to the best of my knowledge and belief, the Ow Owner's Report in accordance with the requireme By signing this certificate neither the Inspect examinations and corrective measures described shall be liable in any manner for any personal inj inspection.	iner has performed examina ents of the ASME Code, Sec for nor his employer makes I in this Owner's Report. I	ations and taken corrective me ition XI. any warranty, expressed or in Furthermore, neither the Inspe a loss of any kind arising from	asures described in this mplied, concerning the ector nor his employed or connected with this

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

As	Required	by the	Provisions	of the	ASME	Code	Section X	l

1. Owner Virginia Electric & Power Company Name	Date December 5, 2000	
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _1 of2	
2. Plant Surry Power Station Name	Unit: <u>2</u>	
5570 Hog Island Road, Surry, VA 23883 Address	R/R 00-129 W.O.00424391-01 Repair Organization P.O.	No. Job No. , etc.
3. Work Performed By <u>Virginia Electric &amp; Power Company</u> Name	Type Code Symbol Stamp Authorization No	N/A N/A N/A
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Expiration Date	

4. Identification of System Vents & Drains

5. (a) Applicable Construction Code ANSI B31.1 \_\_\_\_\_ 1955 Edition, N/A \_\_\_\_Addenda, N-1 through N-13 \_\_Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
5/8" Stud	Mackson, inc.	Heat #S16949	N/A	Mark #38-02-DA- T-V-200A-Valve	NA	Replacement	No
5/8° Hex Nut	Mackson, Inc.	Heet #319370F	N/A	Mark #38-02-DA- TV-200A-Valve	NA	Replacement	No
2" Valve	BNL industrials	Senal # 1 of the Following B000- 207-1-1,2,3,4	NA	Mark #38-02-DA- TV-200A-Valve	NA	Replacement	No
	-						

7. Description of Work Replace 2" Valve

8.	Tests Conducted:	Hydrostatic Pneumatic	Nominal Ope	rating Pressure	
		Other Pressure	psi	Test Temp	°F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8<sup>1</sup>/<sub>2</sub> 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.

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

(12/82)

Remarks P.O.45017502 (5/8" Stud)	P.O.45046917 (5/8	"Hex Nut) P.O.4	15035353 (2' Valve	)
	Applicable Manufacture	er's Deta Reports to I	be stached	
L F				
				<u> </u>
	CERTIFICATE OF			
We certify that the statements m ASME Code, Section XI.	ade in the report are col	rrect and thi <u>t Pomp</u> repair o	replecement	to the rules of the
Type Code Symbol Stamp NA	<u></u>	<u></u>		
Signed	ISI ENGINA	Expiration Date	12/5	<u>18_00</u>
	CERTIFICATE OF INS			
, the undersigned, holding a valid commis	tion issued by the Natio		ind Pressure Vessel Ins	pectors and the Stat
Hartford, Ct.	£12	h	ave inspected the ct	
n this Owner's Report during the period to the best of my knowledge and belief, t	دميندي والمستحديدي والمتعادي والمتعادي والمتعادي والمتعادين والمتعاد			
to the past of my knowledge and beliet, Owner's Report in accordance with the rec				
By signing this certificate neither the			enty, expressed or im	plied, concerning th
examinations and corrective measures de				
shall be liable in any manner for any pers				
inspection.				
	/		- /->	
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Indector's Signature	mith_commin	sions Va. BE. National B	<u>Perd, State, Province, a</u>	and Endorsements
		tsionsVABB. National B	<u>2 (TC)</u> perd, State, Province, (	and Endorsements

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

As Required by the	Provisions	of the ASME	Code Section XI
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1. Owner <u>Virginia Electric &amp; Power Company</u> Name	Date December 5, 2000	
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _1 of 2	
2. Plant <u>Surry Power Station</u> Name	Unit: <u>2</u>	
5570 Hog Island Road, Surry, VA 23883 Address	R/R 00-130 W.O.00424392-01 Repair Organization P.O.	No. Job No. , etc.
3. Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp	N/A
Name	Authorization No.	N/A
5000 Dominion Blvd., Glen Allen, VA 23060	Expiration Date	N/A
Address		

4. Identification of System Vents & Drains

(a) Applicable Construction Code <u>ANSI B31,1</u> 1955 Edition. <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Built	Repaired, Repiaced, Or Replacement	ASME Code Stamped (Yes or No)
5/8" Stud	Mackson, Inc.	Heat #S16949	NVA	Mark #38-02-DA- TV-2008-Valve	NA	Replacement	-No
2" Valve	BNL Industries	Serial # 1 of the Following B000- 207-1-1 2 3 4	N/A	Mark #38-02-DA- TV-2008-Valve	NA	Replacement	No

7. Description of Work Replace 2" Valve

8.	Tests Conducted:	Hydrosta	tic Pneumatic	Nominal Ope	rating Pressure	
			Pressure	 psi	Test Temp	 °F

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

<b>D</b>	P.O.45017502 (5/8" Stud)	P.O. 45035353 (2" Valve )	
Hemarks ,	A	pplicable Manufacturer's Data Reports to be a	Teched
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	×		
		CERTIFICATE OF COMPLIANCE	
	We certify that the statements mad	e in the report are correct and this	conforms to the rules of the
ASME Co	ode, Section XI.		
Type Cod	te Symbol StampNA		
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Certificat	e of Authorization No.	Expiration Date	<u>NA</u>
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Signed	Dwner or Dwodr's Designee, Title		is the set
·			
		ERTIFICATE OF INSERVICE INSPECTION	
I, the uni	dersigned, holding a valid commissio	n issued by the National Board of Boiler and i demological by HSBI and I CD.	
~ ~	ce of VITEINIAen		inspected the components described
			0/00, and state the
	wher's Report during the period	e Owner has performed examinations and tak	
		rements of the ASME Code, Section XI.	
		spector nor his employer makes any warranty	r, expressed or implied, concerning th
examinat	tions and corrective measures desci	ribed in this Owner's Report. Furthermore,	neither the inspector nor his employe
shall be i	liable in any manner for any person	al injury or property damage or a loss of any i	kind arising from or connected with th
inspectio		. unt	<b>`</b>
	/ in		R)
	Thepector's Signatule	National Board	I, State, Province, and Endorsements
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Date	12/AD ha2	<u>.000</u>	
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Attachment 2 Page 18 of 30 Serial No.: 01-021 Docket No.: 50-281

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

. Owner <u>Virginia Electric &amp; Power Company</u> Name	Date November 21, 2000
000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet1 of 2
Plant Surry Power Station Name	Unit: 2
70 Hog Island Road, Surry, VA 23883 Address	R/R 00-131 W.O.00421146-01 Repair Organization P.O. No. Job No. , etc.
Work Performed By <u>Virginia Electric &amp; Power Company</u> Name	Type Code Symbol Stamp         N/A           Authorization No.         N/A           Expiration Date         N/A
00 Dominion Blvd., Glen Allen, VA 23060 Address	
Identification of System Reactor Coolant	

(a) Applicable Construction Code <u>ANSI B31.1</u> 1955 Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
1 3/8" Hex Nut	Mackson, inc.	Heat #60344	N/A	Mark #38-02-RC- SV-2551A-Valve	N/A	Replacement	No
Stud	Mackson, Inc.	Heat #M53417	N/A	Mark #38-02-RC- SV-2551A-Valve	N/A	Replacement	No
Hex Nut	Mackson, Inc.	Heat #34413PJ	N/A	Mark #38-02-RC- SV-2551A-Vaive	N/A	Replacement	No
1/8° Cotter Pin	Southern Fastners & Supply Co.	Inspection Lot Number 14951	N/A	Mark #38-02-RC- SV-2551A-Valve	N/A	Replacement	No
1 3/8" Stud	Mackson, Inc.	Heat #69453	N/A	Mark #38-02-RC- SV-2551A-Valve	N/A	Replacement	No

7. Description of Work Remove and Install Safety Valve

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8. Tests Conducted: Hydrostatic Pneumatic D Nominal Operating Pressure Test Temp. psi Other Pressure

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.

(12/82)

	Bemarks P.O 45014699 (Hex Nu	D = D = D = T = 467650 (Stud)	P.O. 45049644 (Hex Nut)
9	Remarks P.O 43014077 (nex 140	EU. BRI-RIGOO LECT	

# Applicable Manufacturer's Data Reports to be attached P.O. 45040777 (Cotter Pin) P.O. BNT-467650 (Stud)

	CERTIFICATE OF COMPLIANCE
We certify that the statements made ASME Code, Section X1.	In the report are correct and this <u>public parts</u> conforms to the rules of the repair or replacement
vpe Code Symbol StampNA	
ertificate of Authorization No.	Expiration Date NA
ignedOwner of Owner's Designee, Time	ISTENGINE 11/22/00 20
	il palla
CF	RTIFICATE OF INSERVICE INSPECTION
the undersigned holding a valid commission	RTIFICATE OF INSERVICE INSPECTION I issued by the National Board of Boiler and Pressure Vessel Inspectors and the State amploued by HSBI and I CD.
The undersigned holding a valid commission Province of <u>VITGINIA</u> HETTIOTE, CL.	employed by <u>HSBI and I CD</u> of
The undersigned holding a valid commission Province of <u>VITCIDIA</u> HATTIOTE. CL. This Owner's Report during the period	b issued by the National Board of Boiler and Pressure Vessel Inspectors and the State employed by <u>HSBI and I CD</u> of have inspected the components described B/23/00 to $I2/4/00$ , and state that
the undersigned holding a valid commission Province of <u>VITGINIA</u> and HATTIOTE, CL. This Owner's Report during the period the best of my knowledge and belief, the	r issued by the National Board of Boiler and Pressure Vessel inspectors and the State employed by <u>HSBI and I CD</u> of have inspected the components described B/23/00 to $I2/4/00$ , and state that Owner has performed examinations and taken corrective measures described in this
the undersigned holding a valid commission or Province of <u>V1701711a</u> and HATTIOTE. CL. In this Owner's Report during the period of the best of my knowledge and belief, the Owner's Report in accordance with the require By signing this certificate neither the Insp examinations and corrective measures descri-	r issued by the National Board of Boiler and Pressure Vessel inspectors and the State employed by <u>HSBI and I CD</u> of have inspected the components described B/23/00 to $I2/4/00$ , and state that Owner has performed examinations and taken corrective measures described in this

Owner Virginia Electric & Power Company Name	Date November 21, 2000	
000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _1 of2	
Plant Surry Power Station Name	Unit: <u>2</u>	
570 Hog Island Road, Surry, VA 23883 Address	R/R 00-132 W.O.00421145-01 Repair Organization P.O.	No. Job No. , etc.
Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp	N/A
Name	Authorization No.	N/A
000 Dominion Blvd., Glen Allen, VA_23060	Expiration Date	N/A
Address		

4. Identification of System Reactor Coolant

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Buitt	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
1 3/8" Hex Nut	Mackson, Inc.	Heat #60344	N/A	Mark #38-02-RC- SV-2551B-Valve	N/A	Replacement	No
Stud	Mackson, Inc.	Heat #M53417	N/A	Mark #38-02-RC- SV-2551B-Valve	N/A	Replacement	No
Hex Nut	Mackson, Inc.	Heat #34413PJ	N/A	Mark #38-02-RC- SV-2551B-Valve	N/A	Replacement	No
1/8" Cotter Pin	Southern Fastners & Supply Co.	Inspection Lot Number 14951	N/A	Mark #38-02-RC- SV-2551B-Valve	N/A	Replacement	No
1 3/8" Stud	Mackson, Inc.	Heat #69453	N/A	Mark #38-02-RC- SV-2551B-Valve	N/A	Replacement	No

7. Description of Work Remove and Install Safety Valve

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

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.

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(12/82)

# 9. Remarks P.O 45014699 (Hex Nut) P.O. BNT-467650 (Stud) P.O. 45049644 (Hex Nut) Applicable Manufacturer's Date Reports to be attached

# P.O. 45040777 (Cotter Pin) P.O. BN1-467650 (Stud)

		ATE OF COMPLIANCE		
We certify that the ASME Code, Section X1.	statements made in the repo	ort are correct and this 2	confo	rms to the rules of the
lype Code Symbol Stamp	NA			
Certificate of Authorization N Signed U U U U U U U U U U U U U U U U U U U	en TT	Expiration		20 19 00 24
		E OF INSERVICE INSP		
Hartiord, Ct.	aand employed	by <u>HSBI and</u>	have, inspected the	components described
HATTIOTG, CT. HATTIOTG, CT. In this Owner's Report during to the best of my knowledge	and employed	by HSBI and J	and taken corrective m	components described
Province of <u>V1701111</u> HETIOTE, CL. - this Owner's Report during to the best of my knowledge Dwner's Report in accordance By signing this certificate examinations and corrective	and employed mg the period and belief, the Owner has a with the requirements of the neither the Inspector nor measures described in this	by HSBI and J by HSBI and J bertormed examination the ASME Code, Section his employer makes any cover's Report. Furth	have, inspected the particular of the particular of the particula	components described and state that measures described in this implied, concerning the pector nor his employer
Dr Province of <u>V1701R1</u> HATTIOTG, CT. In this Owner's Report durin to the best of my knowledge Owner's Report in accordance By signing this certificate examinations and corrective shall be liable in any manner inspection	and employed mg the period and belief, the Owner has a with the requirements of the neither the Inspector nor measures described in this	by HSBI and J by HSBI and J bertormed examination the ASME Code, Section his employer makes any cover's Report. Furth	BB2(R)	components described and state that measures described in this implied, concerning the pector nor his employer

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. Owner Virginia Electric & Power Company Name	Date November 16, 2000	
000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet <u>1</u> of <u>2</u>	
Plant <u>Surry Power Station</u> Name	Unit: <u>2</u>	
570 Hog island Road, Surry, VA 23883 Address	R/R 00-133 W.O.00421146-01 Repair Organization P.O. I	No. Job No. , etc.
Work Performed By <u>Virginia Electric &amp; Power Company</u> Name	Type Code Symbol Stamp Authorization No	N/A
000 Dominion Blvd., Glen Allen, VA 23060 Address	Expiration Date	<u> </u>

(a) Applicable Construction Code <u>ANSI B31.1</u> 1955 Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
1 3/8 Hex Nut	Mackson, Inc.	Heat #60344	N/A	Mark #38-02-RC- SV-2551C-Valve	N/A	Replacement	No
Stud	Mackson, Inc.	Heat #M53417	N/A	Mark #38-02-RC- SV-2551C-Valve	N/A	Replacement	No
Hex Nut	Mackson, Inc.	Heat #34413PJ	N/A	Mark #38-02-RC- SV-2551C-Valve	N/A	Replacement	No
1/8" Cotter Pin	Southern Fastners& Supply	Inspection Lot Number 14951	N/A	Mark #38-02-RC- SV-2551C-Valve	N/A	Replacement	No
1 3/8 Stud	Co. Mackson, Inc.	Heat #69453	N/A	Mark #38-02-RC- SV-2551C-Valve	N/A	Replacement	No

7. Description of Work Remove And Reinstall Safety Valve

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8. Tests Conducted: Hydrostatic Pneumatic D Nominal Operating Pressure Test Temp. Other Pressure \_\_\_\_ psi

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.

(12/82)

# 9. Remarks P.O. 45014699 (Hex Nut) P.O. BNT-467650 (Stud) P.O. 45049644 (Hex Nut) Applicable Manufacturer's Data Reports to be attached P.O. 45040777 (Cotter Pin) P.O. BNT-467650 (Stud)

CERTIFIC	ATE OF COMPLIAN	CE	
We certify that the statements made in the repl ASME Code, Section X1.	ort are correct and thi	s confo -repair or replacement	rms to the rul <del>es</del> of the
Type Code Symbol StampNA			
Certificate of Authorization No. RA	Expire Excanced D		¥2000
Dwner Br Owner's Designee, Title	<u></u>		àc
t, the undersigned, holding a valid commission issued by or Province of <u>VITGINIA</u> and employed HATTIOTE, CT.	by HSBI and	have inspected the	components described
in this Owner's Report during the period			, and state that neasures described in this
Owner's Report in accordance with the requirements of t			implied concerning the
By signing this certificate neither the Inspector nor examinations and corrective measures described in this shall be liable in any manner for any personal injury or	s Owner's Report, Fu	urthermore, neither the Ins	pector nor his employer
	Commissions V	BB?(R)	ce, and Endorsements
Date12/4 1 2000			

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5000 Dominion Blvd., Glen Allen, VA 23060       Sheet 1 of 2         Address       Unit: 2         2. Plant Surry Power Station       Unit: 2         Name       8         5570 Hog Island Road, Surry, VA 23883       R/R 00-144 W.O. 00435673-01         Address       Repair Organization P.O. No. Job No. , etc.         3. Work Performed By Virginia Electric & Power Company       Type Code Symbol Stamp N/A         Name       Authorization No	1. Owner Virginia Electric & Power Company Name	Date December 4, 2000
Name         5570 Hog Island Road, Surry, VA 23883       R/R 00-144 W.Q. 00435673-01         Address       Repair Organization P.O. No. Job No. , etc.         3. Work Performed By Virginia Electric & Power Company       Type Code Symbol StampN/A		Sheet 1 of 2
3570 Hog Island Road, Surry, VA 20000       Address       Repair Organization P.O. No. Job No. , etc.         3. Work Performed By <u>Virginia Electric &amp; Power Company</u> Type Code Symbol Stamp       N/A		Unit: _2
3. Work Performed By Virginia Electric & Power Company Type Code Symbol Stamp N/A		
3. Work Performed by <u>virginia Electric di Power Company</u> Type codo cymer cump	Address	Repair Organization P.O. No. 300 No. , etc.
	3 Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp N/A
		Authorization No. N/A
5000 Dominion Blvd., Glen Allen, VA 23060 Expiration Date N/A	5000 Dominion Blvd Gien Allen VA 23060	Expiration Date N/A
Address		

4. Identification of System Charging

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
7/16" Tap End Stud	Mackson.Inc.	Heat #Z6550MK	N/A	Mark #38-02-CH- 27-Valve	N/A	Replacement	No
7/16" Hex Nut	Mackson, Inc.	Heat#8655134	N/A	Mark #38-02-CH- 27-Valve	N/A	Replacement	No
Valve Bonnet	ITT industries	Heat #B3894-7	N/A	Mark #38-02-CH- 27-Valve	N/A	Replacement	No
					<u> </u>		
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7. Description of Work Replace 2" Grinnell Valve

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_

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.

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	d Stud) P.O.CNT-54271	<u>8 (7/16" Hex Nut)</u>	
Applic	bie Manufacturer's Data Reports t	o be sttached	
P.O.CNT-568653 (2" Valve )			
		· · · · · · · · · · · · · · · · · · ·	
	TIFICATE OF COMPLIANCE		to the rules of the
We certify that the statements made in t	e report are correct and this repair	or replacement	
ASME Code, Section X1.			
Type Code Symbol StampNA			
	-	87 B	
Certificate of Authorization No	Expiration D	)ate/	
U.J. J. Locus TC	- ENGINEER_ Date_	12/4	20
Signed Owner of Owners Designee, Title			se
	ICATE OF INSERVICE INSPEC		_
I, the undersigned, holding a valid commission issue	ed by the National Board of Boile	r and Pressure Vessel ins	pectors and the State
or Province of VITEINIA and em	loyed by HSBI and I	<u>po</u>	of
or Province of <u>VITUINIA</u> and em HATTIOTO, CL.	loved by HSBI and I	nave / inspected the co	of
or Province of <u>VITUINIA</u> and emi <u>HATTIOIG</u> , <u>CL</u> .	10yed by HSBI and I 9/5/00 to	DD _ have / inspected the co /2/4/00	of omponents described , and state that
or Province of <u>VITUINIA</u> and emi HETIDIG. CL. In this Owner's Report during the period to the best of my knowledge and belief, the Ow	er has performed examinations a	DD. have inspected the co 12/4/00 nd taken corrective meas	of omponents described , and state that
or Province of <u>VITUINI</u> , and emi <u>HETIOFG</u> , CL. In this Owner's Report during the period to the best of my knowledge and belief, the Ow Owner's Report in accordance with the requireme By signing this certificate neither the inspect	er has performed examinations a bits of the ASME Code, Section XI r nor his employer makes any wi	nave / inspected the co have / inspected the co /2/4/00 nd taken corrective mean arranty, expressed or im	of omponents described , and state that sures described in this plied, concerning the
or Province of <u>VITUINIA</u> and emi <u>HETTIOFG</u> , <u>CL</u> in this Owner's Report during the period to the best of my knowledge and belief, the Ow Owner's Report in accordance with the requireme By signing this certificate neither the inspect examinations and corrective measures described	ioved by <u>HSBI and J</u> <u>9/5/00</u> to er has performed examinations a bits of the ASME Code, Section XI r nor his employer makes any wi in this Owner's Report. Further	nd taken corrective mean arranty, expressed or immore, neither the inspected	of omponents described , and state that sures described in this plied, concerning the stor nor his employer
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Owner Virginia Electric & Power Company Name	Date December 13, 2000	
000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _1 of2	,,,,,
. Plant <u>Surry Power Station</u> Name	Unit: <u>2</u>	
570 Hog Island Road, Surry, VA 23883 Address	R/R 00-151 W.O. 00422454-10 Repair Organization P.O.	No. Job No. , etc.
Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp	N/A
Name	Authorization No.	N/A
000 Dominion Blvd., Glen Allen, VA 23060	Expiration Date	N/A
Address		

4. Identification of System Feedwater

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
14* Pipe	Dubose National Energy Services	Heat #J736159	N/A	Mark #38-02-FW- PPS-218	N/A	Replacement	No
14 * Elbow Pipe	N/A	Matenal Comp ASTM A234 Grade WP22	N/A	Mark #38-02-FW- PPS-218	N/A	Replacement	No
			<u> </u>		+		<u> </u>

7. Description of Work Fac Replacement Component / N-416-1 Code Case Applies

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is  $8^{1}/2$  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.

(12/82)

Remarks	1.0.4500000			4" Elbow ) Material Com	
		Applicable Mi	enutacturer's Data Rep	DITS TO be attached	
				<u> </u>	
			ATE OF COMPLIANC		
We cert	ify that the stateme	nts made in the repo	ort are correct and this.	per or replacement	to the rules of the
ASME Code, Sect	non XI.		•		
Type Code Symbo	ol StampNA				
	NU.	A	Expirati	Date NA	
Certificate of Aut				/	20
	4 locus	- ISI	ENGINEER Der	. 12/18	<u> </u>
Signed Lines				· · · · · · · · · · · · · · · · · · ·	
	or Owner's Wesignee	, Title	-		and
	or Owner's Vesignee	. Title			"ded
	or Owner's Gesignes	CERTIFICAT	E OF INSERVICE INS	PECTION	(dek
	d holding a valid cor				Dectors and the State
the undersigned	or Owner's Wesignee b holding a valid cor Virginia	mmission issued by	the National Board of I	Boiler and Pressure Vessel Ins 	of
Province of	Virginia	mmission issued by	the National Board of I by <u>HSBI and</u>	Boiler and Pressure Vessel Ins 	of
or Province of	Virginia	mmission issued by	the National Board of I by <u>HSBI and</u>	Boiler and Pressure Vessel Ins	of
HETTEDEE	VITUINIA 	mmission issued byand employed	the National Board of I by HSBI and 10/5/00 to	Boiler and Pressure Vessel Ins <u>J D</u> D. have inspected the co / 2/31/00	of emponents described
n this Owner's F	VITGINIA Report during the p knowledge and be	mmission issued by and employed  beriod lief, the Owner has	the National Board of I by HSBI and 10/5/00 to performed examination	Boiler and Pressure Vessel Ins $I_D$ . have inspected the cc $I_2/3I/00$ ons and taken corrective meas	of emponents described
Dr Province of HETITOTE In this Owner's F to the best of my Owner's Report in	VITOIRIA Report during the p knowledge and be n accordance with th	mmission issued by and employed  beriod lief, the Owner has he requirements of t	the National Board of I by HSBI and 10/5/00 to performed examination the ASME Code, Section	Boiler and Pressure Vessel Ins <u>I DD</u> . have inspected the co <i>I 2/21/0</i> ons and taken corrective meas n XI.	of omponents described , and state that ures described in this
br Province of HETITOTE In this Owner's F to the best of my Owner's Report in By signing thi	VITUINIA Report during the p / knowledge and be n accordance with th s certificate neither	mmission issued by and employed  beriod lief, the Owner has he requirements of t the inspector nor	the National Board of I by HSBI and /0/5/00 to performed examination the ASME Code, Section his employer makes an	Boiler and Pressure Vessei Insi <u>I DD</u> . have inspected the co <i>I 2/21/0</i> ons and taken corrective meas n XI. iv warranty, expressed or imi	of omponents described , and state that ures described in this plied, concerning the
DEPROVINCE OF HETEFOTE IN THIS OWNER'S F TO THE BEST OF MY OWNER'S REPORT IN BY SIGNING THI EXAMINATIONS AND	VITOINIA Report during the p v knowledge and be n accordance with th s certificate neither d corrective measure	mmission issued by and employed  hef, the Owner has he requirements of t the inspector nor es described in this	the National Board of I by HSBI and 10/5/00 to performed examination the ASME Code, Section his employer makes and covner's Report. Fur	Boiler and Pressure Vessei Insi <u>I DD</u> . have inspected the co <i>I 2/21/00</i> ons and taken corrective meas n XI. w warranty, expressed or imi- thermore, neither the Inspec	of mponents described , and state that ures described in this plied, concerning the tor nor his employer
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or Province of HETEOTE In this Owner's F to the best of my Owner's Report in By signing thi examinations and shall be liable in	VITOINIA Report during the p v knowledge and be n accordance with th s certificate neither d corrective measure	mmission issued by and employed  itef, the Owner has he requirements of t the inspector nor the inspector nor es described in this personal injury of i	the National Board of I by HSBI and 10/5/00 to performed examination the ASME Code, Section his employer makes and covner's Report. Fur	Boiler and Pressure Vessei Insi <u>I DD</u> . <u>have</u> inspected the co <u>12/21/00</u> ons and taken corrective meas n XI. iv warranty, expressed or imi- thermore, neither the Inspec- poss of any kind arising from o	of omponents described , and state that ures described in this plied, concerning the tor nor his employer r connected with this

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Attachment 2 Page 23 of 30 Serial No.: 01-021 Docket No.: 50-281

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

1. Owner <u>Virginia Electric &amp; Power Company</u> Name	Date November 15, 2000	
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _1 of 2	
2. Plant <u>Surry Power Station</u> Name	Unit: <u>2</u>	
5570 Hog Island Road, Surry, VA 23883 Address	R/R 00-153 W.O.00403857-02 Repair Organization P.O. I	No. Job No. , etc.
3. Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp	N/A
3. Work Performed by <u>virginia cleculo d'i ower compenn</u>	Authorization No.	N/A
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Expiration Date	N/A
4. Identification of System Residual Heat		

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
1 ¼" Hex Nut	Mackson, Inc.	Heat #33627	N/A	Mark #38-02-RH- FE-2605-Detect	N/A	Replacement	No
1 1/4" Stud	Mackson, Inc.	Heat #S24998	N/A	Mark #38-02-RH- FE-2605-Detect	N/A	Replacement	No

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

7. Description of Work Remove & Install Spoolpiece / Flow Element

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.

(12/82)

Applic	P.O. CNT-575889 (Stud) able Manufacturer's Data Reports to be attached
	,
CEE	RTIFICATE OF COMPLIANCE
	the report are correct and this <b>personnel</b> conforms to the rules of the
ASME Code, Section X1.	-repair or replacement
RSIME CODE, Section XI.	
Type Code Symbol StampNA	
Certificate of Authorization No	Expiration Date NA
Siones W. 4- Porcere IS	Changed Dave 11/29 2000
Siones U. 4. John Josignee, Title	E Compile Date 1/29 20 00
Signes When or Owner & Designee. Title	Changed Date 1/29 20 00
Swhet of Owfort's Designee. Title	FICATE OF INSERVICE INSPECTION
CERTH The undersidned noiding a valid commission issue	FICATE OF INSERVICE INSPECTION red by the National Board of Boiler and Pressure Vessel Inspectors and the Stat
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Owner <u>Virginia Electric &amp; Power Company</u> Name	Date_December 18, 2000	
000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _1 of2	
. Plant <u>Surry Power Station</u> Name	Unit: <u>2</u>	
570 Hog Island Road, Surry, VA 23883 Address	R/R 00-154 W.O. 00425593-03 Repair Organization P.O.	3 No. Job No. , etc.
. Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp	N/A
Name	Authorization No.	N/A
000 Dominion Blvd., Glen Allen, VA 23060	Expiration Date	N/A
Address		
000 Dominion Blvd., Glen Allen, VA 23060 Address	Expiration Date	

4. Identification of System Mainsteam

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Buitt	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
3° Valve	Crane Supply Co.	Model 171-1/2	N/A	Mark #38-02-MS- 196-Valve	N/A	Replacement	No
3' Pipe	Consolidated Power Supply	Heat #Y67155	N/A	Mark #38-02-MS- 196-Valve	N/A	Replacement	No
					+		
					+		

7. Description of Work Replace 3" Globe Valve N-416-1 Code Case Applies

3

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is  $8^{1}/2$  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.

		Applice	able Manufacturer's Data Reports to be attached
We certify that the statements made in the report are correct and this <u>personnent</u> conforms to the rules of the ASME Code, Section X1. Type Code Symbol Stamp <u>NA</u> Certificate of Authorization No. <u>NA</u> <u>Expiration Date NA</u> Signed <u>Owner or Owner's Designee, Title</u> <u>Second</u> <u>CERTIFICATE OF INSERVICE INSPECTION</u> If the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Store Province of <u>V170118</u> and employed by <u>HSB1</u> and <u>I</u> <u>CO</u> , and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in the SME Code, Section X1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the state to the lable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with the inspection.			
We certify that the statements made in the report are correct and this <u>performant</u> conforms to the rules of the ASME Code. Section X1.  Type Code Symbol Stamp <u>NA</u> Certificate of Authorization No. <u>NA</u> Expiration Date <u>NA</u> Certificate of Authorization No. <u>NA</u> Expiration Date <u>NA</u> Certificate of Authorization No. <u>NA</u> CERTIFICATE OF INSERVICE INSPECTION  The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Store Province of <u>VITCINIA</u> and employed by <u>HSB1</u> and I CO.  Hattion, Ct. have inspected the components described in this Owner's Report in accordance with the requirements of the ASME Code, Section X1.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning is examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning is examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning is provided by the liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with the inspection.			
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Certificate of Authorization No. NA Expiration Date NA Signed $\bigcirc$ $\square$			
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examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his emplois shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with t inspection.	n this Owner's	Net holding a valid commission issu VITCINIA and emp C. CL. Report during the period my knowledge and belief, the Own	be by the National Board of Boiler and Pressure Vessel Inspectors and the Stability dependence of the components described in the transfer of the components described in the transfer of the components described in the transfer of the component described in the transfer of the t
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Commissions VB. BB2 (R) Inspector's Signature Commissions National Board, State, Province, and Endorsements	In this Owner's Owner's Report By signing t examinations a	ed, holding a valid commission issu VITGINIA and emp G. CC. s Report during the period my knowledge and belief, the Own t in accordance with the requirement inis certificate neither the Inspecto nd corrective measures described	Jed by the National Board of Boiler and Pressure Vessel Inspectors and the Sta ployed by <u>HSBI and I Do</u> have inspected the components describe <u>ID/I2/OD</u> to <u>IZ/ZJUU</u> , and state the ner has performed examinations and taken corrective measures described in the nts of the ASME Code, Section XI. for nor his employer makes any warranty, expressed or implied, concerning to in this Owner's Report. Furthermore, neither the Inspector nor his employer
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1. Owner <u>Virginia Electric &amp; Power Company</u> Name	Date November 20, 2000
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _1 of 2
2. Plant <u>Surry Power Station</u> Name	Unit: <u>2</u>
5570 Hog Island Road, Surry, VA 23883 Address	R/R 00-155 W.O.0438149-01 Repair Organization P.O. No. Job No. , etc.
3. Work Performed By Virginia Electric & Power Company	Type Code Symbol StampN/A
Name	Authorization No N/A
5000 Dominion Blvd., Glen Allen, VA 23060	Expiration DateN/A
Address	
Auress	

4. Identification of System Feedwater

(a) Applicable Construction Code <u>ANSI B31.1</u> 1955 Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
N/A	N/A	N/A	N/A	Mark #38-02-FW- 12-CKVALV	N/A	Repair	No
			<u></u>				<u>+</u>
							<u> </u>
		<u> </u>					
7. Description of Wo	rk Repair Valve Bod	Y					

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is  $8^{1}/2$  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.

(12/82)

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Remarks
Applicable Manufacturer's Data Reports to be attached
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CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this conforms to the rules of
ASME Code, Section X1.
Type Code Symbol StampNA
Certificate of Authorization No RAExpiration Date
Signer by Owner Designee Title
Signed My - Tre Contract State - The Date - 1724-
CERTIFICATE OF INSERVICE INSPECTION
the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the conference of VITGINIA and employed by HSBI and I Co.
this Owner's Report during the period ID/2/DD to 12/19/DD and state
to the pest of my knowledge and belief, the Owner has performed examinations and taken corrective measures. described if
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, concernin
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his emp shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
inspection
Va. BB?(R)
Inspector Sigheture Commissions Va. BB3(R) National Board, State, Province, and Endorsemen
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12/19/10 to 2000

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Attachment 2 Page 26 of 30 Serial No.: 01-021 Docket No.: 50-281

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

1. Owner <u>Virginia Electric &amp; Power Company</u> Name	Date November 17,2000	
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _1 of2	
Plant <u>Surry Power Station</u> Name	Unit: _2	
570 Hog Island Road, Surry, VA 23883 Address	R/R 00-156 W.O.00421007-01 Repair Organization P.O.	No. Job No. , etc.
. Work Performed By <u>Virginia Electric &amp; Power Company</u> Name	Type Code Symbol Stamp     Authorization No.	N/A
000 Dominion Blvd., Glen Allen, VA_23060 Address	Expiration Date	N/A
I. Identification of System Charging System		

(a) Applicable Construction Code <u>ANSI B31.1</u> 1955 Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
Relief Valve	Senal # N78092- 00-0002	Crosby Valve	N/A	Mark #38-02-CH- RV-2382B-Valve	N/A	Replacement	No
Hex Nut	Heat #31937of	Mackson, Inc.	N/A	Mark #38-02-CH- RV-2352B-Valve	N/A	Replacement	No
Stud	Heat #M60635	Mackson, Inc.	N/A	Mark #38-02-CH- RV-2382B-Valve	N/A	Replacement	No

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8	Tests Conducted:	Hydrosta	tic Pneumatic	Nominal Oper	ating Pressure	
			Pressure	 psi	Test Temp	

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.

(12/82)

7. Description of Work Replace Relief Valve

# 9. Bemarks P.O.BNT-562947 (Relief Valve) P.O.45046917 (Nut) P.O. 45026205(Stud)

Applicable Manufacturer's Data Reports to be attached

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We certify that the statements made in ASME Code, Section X1.	n the report are correct and this <b></b>
Type Code Symbol Stamp NA	
Certificate of Authorization No.	Expiration Date NA
Signed Line ISI	- ENGINERA Date 1/22 1/ 2000
	· sec
CER	
. the undersigned, holding a valid commission is	ssued by the National Board of Boiler and Pressure Vessel Inspectors and the State
the undersigned, holding a valid commission is or Province of VITCINIA and er	
the undersigned, holding a valid commission is or Province of <u>VITCINIA</u> and er HATTIDIC, CL.	ssued by the National Board of Boiler and Pressure Vessel Inspectors and the Stati mploved by <u>HSBI and I Co</u> o
in this Owner's Report during the period.	ssued by the National Board of Boiler and Pressure Vessel Inspectors and the State mploved by <u>HSBI and J Co</u> o have inspected the components describer /0/13/00_to_12/4/00, and state tha
the undersigned, holding a valid commission is or Province of <u>VITCINIA</u> and er <u>HATTIDIC</u> , <u>CL</u> . In this Owner's Report during the period to the best of my knowledge and belief, the O	ssued by the National Board of Boiler and Pressure Vessel Inspectors and the State mploved by <u>HSBI and J Co</u> o 
the undersigned, holding a valid commission is or Province of <u>VITGINIS</u> and er <u>HATTIOTG</u> . CL. in this Owner's Report during the period to the best of my knowledge and belief, the O Owner's Report in accordance with the requirem	ssued by the National Board of Boiler and Pressure Vessel Inspectors and the State mploved by <u>HSBI and I Co</u> . <u>have inspected</u> the components described <u>/0/13/00_to_12/4/00</u> , and state tha wher has performed examinations and taken corrective measures described in this nents of the ASME Code, Section XI.
the undersigned, holding a valid commission is or Province of <u>VITGINIA</u> and er <u>HATIODG</u> . CL. in this Owner's Report during the period to the best of my knowledge and belief, the Or Owner's Report in accordance with the requirem By signing this certificate neither the Inspec	ssued by the National Board of Boiler and Pressure Vessel Inspectors and the Stat mploved by <u>HSBI and J Co</u> o 
the undersigned, holding a valid commission is or Province of <u>VITGINIA</u> and er <u>HATTIOTG</u> . CT. In this Owner's Report during the period to the best of my knowledge and belief, the Or Owner's Report in accordance with the requirem By signing this certificate neither the Inspec examinations and corrective measures describe	ssued by the National Board of Boiler and Pressure Vessel Inspectors and the State mploved by <u>HSBI and J Co</u> . have inspected the components describe <u>/0//3/00</u> to <u>12/4/00</u> , and state that wher has performed examinations and taken corrective measures described in this hents of the ASME Code, Section XI. ctor nor his employer makes any warranty, expressed or implied, concerning the
the undersigned, holding a valid commission is or Province of <u>VITGINIA</u> and er <u>HATTIOTG</u> . CT. In this Owner's Report during the period to the best of my knowledge and belief, the Or Owner's Report in accordance with the requirem By signing this certificate neither the Inspec examinations and corrective measures describe	ssued by the National Board of Boiler and Pressure Vessel Inspectors and the State mploved by <u>HSBI and J Co</u> . have inspected the components describe <u>/0/13/00</u> to <u>12/4/00</u> , and state this where has performed examinations and taken corrective measures described in the hents of the ASME Code, Section XI. etor nor his employer makes any warranty, expressed or implied, concerning the in this Owner's Report. Furthermore, neither the Inspector nor his employed.

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Attachment 2 Page 27 of 30 Serial No.: 01-021 Docket No.: 50-281

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

. Owner Virginia Electric & Power Company Name	Date November 20, 2000	
000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _1 of 2	
Plant Surry Power Station Name	Unit: <u>2</u>	
570 Hog Island Road, Surry, VA 23883 Address	R/R 00-157 W.O.00438176-01 Repair Organization P.O.	No. Job No. , etc.
Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp	<u>N/A</u>
Name	Authorization No.	N/A
00 Dominion Blvd., Glen Allen, VA 23060 Address	Expiration Date	<u>N/A</u>
Identification of System Reactor Coolant		

(a) Applicable Construction Code <u>ANSI B31.1</u> 1955 Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
34" Hex Nut	Mackson, Inc.	Heat #11379090	N/A	Mark #38-02-RC- MOV-2535-Valvop	N/A	Replacement	No
3/4" Stud	Mackson, Inc	Heat #61870	N/A	Mark #38-02-RC- MOV-2535-Valvop	N/A	Replacement	No

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8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure \_\_\_\_\_\_ psi \_\_\_\_\_\_\_ Test Temp. \_\_\_\_\_\_\_

7. Description of Work Disassemble, Inspect and Overhaul Valve

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.

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(12/82)

# 9. Remarks P.O. 45011652 (3/4" Stud ) P.O. 45053446 ( 3/4" Hex Nut )

Applicable Manufacturer's Data Reports to be attached

Date NA
Date_NA
Date_NA
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11/22 \$200
ler and Pressure Vessel Inspectors and the St CD.
have inspected the components describ
and taken corrective measures described in t
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warranty, expressed or implied, concerning
ermore, neither the inspector nor his emplo
of any kind arising from or connected with t
BB3 (2) al Board, State, Province, and Endorsements

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1. Owner Virginia Electric & Power Company	Date	November 8, 2000
Name		
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _ 1 _ of 2	
2. Plant Surry Power Station Name	Unit: <u>2</u>	<u> </u>
5570 Hog Island Road, Surry, VA 23883 Address	R/R 00-158 W. O.#00438144-01 Repair Organization P.O. N	o. Job No. , etc.
3. Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp	N/A
Name	Authorization No.	N/A
5000 Dominion Blvd., Glen Allen, VA 23060	Expiration Date	<u>N/A</u>
Address		

4. Identification of System Reactor Coolant

(a) Applicable Construction Code <u>ANSI B31.1</u> 1955 Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No	National Board No	Other Identification	Year Built	Repaired. Replaced. Or Replacement	ASME Code Stamped (Yes or No)
1 <sup>®</sup> Round Bar	Dubose National Energy Services	Heat #JB6602	N/A	Mark #38-02-RC- PP-12.00-RC-Pipe- 310-2501R	N/A	Replacement	No
v₂°x3° Flat Bar	Dubose National Energy Services	Heat #977219	N/A	Mark #38-02-RC- pp-12.00-RC-Pipe- 310-2501R	N/A	Replacement	No
				· · · · · · · · · · · · · · · · · · ·			
			T S 00 0220 B	av 1			<u> </u>

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.

# 9. Remarks P.O.45051918 (1" Round Bar) P.O.CNT-568533 (1.2" Flat Bar)

Applicable Manufacturer's Data Reports to be attached

Event of Stamp_NA         Certificate of Authorization No.         Stand         Stand         Owner of Owner's Designee.         CERTIFICATE OF INSERVICE INSPECTION	CERTIF	ICATE OF COMPLIANCE
ASME Code, Section XI.	We certify that the statements made in the re	eport are correct and this conforms to the rules of the
Certificate of Authorization No. NA Signed Winker dr Dwinker's Designee. Title CERTIFICATE OF INSERVICE INSPECTION the undersigned noiding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State reversioned of <u>Vitaginia</u> and employed by <u>HSB1 and I Co</u> . <u>Hattiford</u> , Ct. In this Owner's Report during the period <u>10/16/00</u> to <u>11/22/00</u> , and state the to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in 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 to examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be itable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with to inspection <u>Mattion</u> <u>Va. 883 (p)</u> <u>National Board</u> , State, Province, and Endorsements	ASME Code, Section XI	repair or replacement
Certificate of Authorization No. NA Expiration Date NA General Owner of Owner's Designee. Title CERTIFICATE OF INSERVICE INSPECTION The undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the States Province of Vitginia and employed by HSBI and I CD. hartford, CE. nave inspected the components described in this Owner's Report during the period 10/16/00 to 11/22/00, and state the o the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in 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 to examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer in this of the isobie in any manner for any personal injury or property damage or a loss of any kind arising from or connected with to number to a State, Province, and Endorsements (A. 883 (D) National Board, State, Province, and Endorsements		
Certificate of Authorization No. NA Signed Winker dr Dwinker's Designee. Title CERTIFICATE OF INSERVICE INSPECTION the undersigned noiding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State reversioned of <u>Vitaginia</u> and employed by <u>HSB1 and I Co</u> . <u>Hattiford</u> , Ct. In this Owner's Report during the period <u>10/16/00</u> to <u>11/22/00</u> , and state the to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in 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 to examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be itable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with to inspection <u>Mattion</u> <u>Va. 883 (p)</u> <u>National Board</u> , State, Province, and Endorsements		
Signed With dr Summer S.	Type Code Symbol StampNA	
Signed With dr Summer S.		
CERTIFICATE OF INSERVICE INSPECTION The undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the States Province of <u>VITGINIA</u> and employed by <u>HSBI and I CD</u> . <u>HATTORC, CT.</u> In this Owner's Report during the period <u>10/16/DD</u> to <u>11/22/DD</u> , and state the to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in 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 Owner's Report. Furthermore, neither the Inspector nor his employer makes of any kind arising from or connected with the inspection Shall be itable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection Commissions Va. 882 D National Board, State, Province, and Endorsements		
CERTIFICATE OF INSERVICE INSPECTION The undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the States Province of <u>VITGINIA</u> and employed by <u>HSBI and I CD</u> . <u>HATTORC, CT.</u> In this Owner's Report during the period <u>10/16/DD</u> to <u>11/22/DD</u> , and state the to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in 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 Owner's Report. Furthermore, neither the Inspector nor his employer makes of any kind arising from or connected with the inspection Shall be itable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection Commissions Va. 882 D National Board, State, Province, and Endorsements		24
CERTIFICATE OF INSERVICE INSPECTION The undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the States Province of <u>VITGINIA</u> and employed by <u>HSBI and I CD</u> . <u>HATTORC, CT.</u> In this Owner's Report during the period <u>10/16/DD</u> to <u>11/22/DD</u> , and state the to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in 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 Owner's Report. Furthermore, neither the Inspector nor his employer makes of any kind arising from or connected with the inspection Shall be itable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection Commissions Va. 882 D National Board, State, Province, and Endorsements	Signed U. 4. APSING 15+ F	allamtet Date 11/29 18 00
the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the States Province of <u>V1701112</u> and employed by <u>HSB1 and J</u> CD. <u>HATTEOFC, CL.</u> nave inspected the components described in this Owner's Report during the period <u>10/16/00</u> to <u>11/22/00</u> , and state the to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in the Owner's Report in accordance with the requirements of the ASME Code, Section X1. 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 employed in this Owner's Report. Furthermore, neither the Inspector nor his employed in the examinations of any manner for any personal injury or property damage or a loss of any kind arising from or connected with the inspection Signature Commissions Va. 883 (p) National Board, State, Province, and Endorsements of the total and the state of the total and arising from or connected with the inspection of the section of the section of the total and arising from or connected with the inspection of the section of	Owner dr Owner's Designee, Title	<i>we</i>
the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the States Province of <u>V1701112</u> and employed by <u>HSB1 and J</u> CD. <u>HATTEOFC, CL.</u> nave inspected the components described in this Owner's Report during the period <u>10/16/00</u> to <u>11/22/00</u> , and state the to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in the Owner's Report in accordance with the requirements of the ASME Code, Section X1. 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 employed in this Owner's Report. Furthermore, neither the Inspector nor his employed in the examinations of any manner for any personal injury or property damage or a loss of any kind arising from or connected with the inspection Signature Commissions Va. 883 (p) National Board, State, Province, and Endorsements of the total and the state of the total and arising from or connected with the inspection of the section of the section of the total and arising from or connected with the inspection of the section of		
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Province of <u>VITGINIA</u> and employed by <u>HSBI and I Co</u> . <u>HATTEOFC, CL</u> <u>nave inspected the components described</u> this Owner's Report during the period <u>IO/16/DD</u> to <u>II/22/DD</u> , and state the to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in 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 Owner's Report. Furthermore, neither the inspector nor his employer makes of a loss of any kind arising from or connected with the inspection <u>Augustual</u> Commissions <u>Va. 883</u> <u>R</u> National Board, State, Province, and Endorsements	the undersioned holding a valid commission issued b	iv the National Board of Boiler and Pressure Vessel Inspectors and the Stat
HEFECOFE, CE. n this Owner's Report during the period	or Province of VITOINIA and employe	d by HSBI and I Co.
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in 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 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 the inspection. Wa. BB3 (R) National Board, State, Province, and Endorsements (R) National Board, State, Province, R) National R)		have inspected the components describe
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in 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 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 the inspection. Wa. BB3 (R) National Board, State, Province, and Endorsements (R) National Board, State, Province, R) National R)	in this Owner's Report during the period	10/16/00 to 11/27/00, and state that
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 employed shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with the inspection. Wa. BB3 (R) National Board, State, Province, and Endorsements		
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning texaminations 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 transpection Wa. 883 (2) Hispector's Signature National Board, State, Province, and Endorsements		
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shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with t inspection Va. BB3 (R) Inspector's Signature (		
Inspection Va. 883 (R) Inspector's Signature Inspector's Signature Inspector's Signature		
Va. BB2 (R) Inspector's Signature I		or property damage or a loss of any kind arising from or connected with th
	inspection	
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	- De Smith	Commissions National Book State Province and Endorsements
Date 11/27 18/2000	Inspector's Signature	Commissions Va. 882 (2) National Board, State, Province, and Endorsements

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1. Owner <u>Virginia Electric &amp; Power Company</u> Name	Date November 23, 2000	
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet _1 of 2	<u> </u>
2. Plant <u>Surry Power Station</u> Name	Unit: <u>2</u>	<b>\</b>
5570 Hog Island Road, Surry, VA 23883 Address	R/R 00-159 W.O. 00413896-01 Repair Organization P.O. I	No. Job No. , etc.
3. Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp	<u>N/A</u>
Name	Authorization No.	N/A
5000 Dominion Blvd., Glen Allen, VA 23060	Expiration Date	<u>N/A</u>
Address		
Address		

4. Identification of System Charging System

7. Description of Work Replace Relief Valve

(a) Applicable Construction Code <u>ANSI B31.1</u> 19<u>55</u> Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19<u>89</u>

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired. Replaced, Or Replacement	ASME Code Stamped (Yes or No)
Crosby Valve	Serial Number N72390-00-0005	N/A	Mark #38-02-CH- RV-2203-Valve	N/A	Replacement	No
	Manufacturer	Manufacturer Serial No.	Name of Manufacturer Board Manufacturer Serial No. No.	Name of Manufacturer         Manufacturer         Board No.         Other Identification           Crosby Valve         Serial Number         N/A         Mark #38-02-CH-	Name of Manufacturer         Manufacturer         Board No.         Other         Year Built           Crosby Valve         Serial Number         N/A         Mark #38-02-CH-         N/A	Name of Manufacturer         Manufacturer Serial No.         No.         Other Identification         Year Built         Replaced, Or Replacement           Crosby Valve         Serial Number         N/A         Mark #38-02-CH-         N/A         Replacement

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8. Tests Conducted:	Hydrostatic Pneumatic	Nominal Oper	rating Pressure	RC)
	Other Pressure	psi	Test Temp.	°F

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

(12/82)

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9 Remarks P.O. CNT-463200 ( Relief Valve )

Applicable Manutacturer's Data Reports to be attached

CERT	TIFICATE OF C	DMPLIANCE		
We certify that the statements made in th	e report are corr	ect and this	confor	ms to the rules of the
ASME Code, Section XI.		repair o	r replacement	
vpe Code Symbol StampNA				
Certificate of Authorization No. NA		Expiration Date	NA	
ingred & fileger ISI Em			,	20
Owner or Owner's Designee, Title				Der,
Province of Virginia and emplo		h		components describe
this Owner's Report during the period			27/00	, and state the
o the best of my knowledge and belief, the Owne Owner's Report in accordance with the requirement			taken corrective me	asures described in th
By signing this certificate neither the Inspector			inty, expressed or i	mphed, concerning th
xaminations and corrective measures described in	this Owner's F	Report. Furthermo	re, neither the insp	ector nor his employe
hall be liable in any manner for any personal injur	v or property da	mage or a loss of ar	ny kind arising from	or connected with th
noitoedan				
	$\sim$ .	ons Va. 883	(R)	, and Endorsements
A. marth	Lommissi			
Inspector & Signature	Lommissi	National Bo	ard, State, Province	e, and Endorsements

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1. Owner Virginia Electric & Power Company	Date	December 18 , 2000
Name		
5000 Dominion Blvd., Glen Allen, VA 23060 Address	Sheet <u>1</u> of <u>2</u>	
2. Plant Surry Power Station Name	Unit: <u>2</u>	
5570 Hog Island Road, Surry, VA 23883 Address	<u>R/R 00-162 W.O.00438377-01</u> Repair Organization P.O.	No. Job No. , etc.
3. Work Performed By Virginia Electric & Power Company	Type Code Symbol Stamp	N/A
3. Work Performed by <u>Virginia Electric d Power Company</u> Name	Authorization No.	<u>N/A</u>
5000 Dominion Blvd., Glen Allen, VA 23060	Expiration Date	N/A
Address		
4. Identification of System Instrument Air		

(a) Applicable Construction Code <u>ANSI B31.1</u> 1955 Edition, <u>N/A</u> Addenda, <u>N-1 through N-13</u> Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Senal No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (Yes or No)
2° Gate Valve	Valan, Inc.	Senal #971045- 1 thru 12	N/A	Mark #38-02-IA- 704-Valve	N/A	Replacement	No

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7 Description of Work Replace 2" Valve / N-416-1 Code Case Applies

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is  $8^{1}/2$  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.

# 9. Bemarks <u>P.O.45045362 (2 " Valve )</u>

Applicable Manufacturer's Data Reports to be attached

# Serial Number is one of the following 971045-1 thru 12

	CERTIFICATE OF COMPLIANCE
We certify that the statements mac ASME Code, Section X1.	se in the report are correct and this <b>contorms</b> to the rules of the repair or replacement
Type Code Symbol StampNA	
	Expiration Date NA
Signed (1) Const S Designee, Title	<u>5 I Entruciste</u> Date <u>12/20</u> 19/2000
-	ERTIFICATE OF INSERVICE INSPECTION
or Province of VITEINIA and	
	have inspected the components describe
HETTIDIG, CL.	10/17/00 to $12/21/00$ , and state this
in this Owner's Report during the period_	
in this Owner's Report during the period_	e Owner has performed examinations and taken corrective measures described in th
in this Owner's Report during the period	e Owner has performed examinations and taken corrective measures described in th irements of the ASME Code, Section XI. spector nor his employer makes any warranty, expressed or implied, concerning th
in this Owner's Report during the period_ to the best of my knowledge and belief, the Owner's Report in accordance with the requi By signing this certificate neither the lns examinations and corrective measures descr	e Owner has performed examinations and taken corrective measures described in th irements of the ASME Code, Section XI. spector nor his employer makes any warranty, expressed or implied, concerning th ribed in this Owner's Report. Furthermore, neither the Inspector nor his employ
ir this Owner's Report during the period_ to the best of my knowledge and belief, the Owner's Report in accordance with the requi By signing this certificate neither the Ins examinations and corrective measures descri- shall be liable in any manner for any person.	e Owner has performed examinations and taken corrective measures described in th irements of the ASME Code, Section XI.
in this Owner's Report during the period_ to the best of my knowledge and belief, the Owner's Report in accordance with the requi By signing this certificate neither the lns examinations and corrective measures descr	e Owner has performed examinations and taken corrective measures described in th irements of the ASME Code, Section XI, spector nor his employer makes any warranty, expressed or implied, concerning th ribed in this Owner's Report. Furthermore, neither the Inspector nor his employ.

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