Attachment 1

Inservice Inspection Summary Report

North Anna Power Station Unit 2
P.O. Box 402
Mineral, Virginia 23117

1999 Refueling Outage Owner's Report of Inservice Inspections

Commercial Service Date 12-14-80

Virginia Electric and Power Company 5000 Dominion Boulevard Glen Allen, Virginia 23060 FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

Attachment 1 Page 1 of 30 Serial No.: 99-601 Docket No.: 50-339

1. Owner	Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, VA 23060								
	(Name and Address of Owner)								
2 Plant	North Anna Power Station, P.O. Box 402, Mineral, VA 23117								
Z. FIAIIL	(Name and Address of Plant)								
3. Plant Unit	4. Owner Certificate of Authorization (if required) N	IA							
5. Commerc	ial Service Date 12/14/80 6. National Board Number for Unit NA								
7. Compone:	nts 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	1281	VA-61431	6895
Steam Generator 2-RC-E-1B	Westinghouse	1282	VA 61432	6896
Steam Generator 2-RC-E-1C	Westinghouse	1283	VA 61433	6897
Pressurizer 2-RC-E-2	Westinghouse	1291	VA 61434	68-104
RC Pump 2-RC-P-1A	Westinghouse	819	NA	NA
Reactor Vessel 2-RC-R-1	RDM Rotterdam	30662	VA-61445	N/A
Heat Exchanger 2-RH-E-1A	Joseph Oat & Sons	1832-5	VA 61417	372
Boron Injection Tank 2-SI-TK-2	Struther Wells Corp.	2-70-07-30717-14	VA 59700	13351
Class 1 Piping Nonserialized	Stone & Webster Eng. Corp.	NA NA	NA	NA
Class 2 Piping Nonserialized	Stone & Webster Eng. Corp.	NA	NA	NA
Class 1 Component Supports	Stone & Webster Eng. Corp.	NA	NA	NA
Class 2 Component Supports	Stone & Webster Eng. Corp.	NA	, NA	NA

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

FORM NIS-1 (Back)

8. Examination Dates	
9. Inspection Period IdentificationThird Period (12-14-97 - 12-14-00)	
0. Inspection Interval Identification Second Interval (12-14-90 - 12-14-00)	
1. Applicable Edition of Section XI Addenda None	
2. Date/Revision of Inspection Plan November 19, 1998, Revision 11, Interim Change 02 of November 24, 1999	
3. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work re for the Inspection Plan.	quired
See Attachment 1, Abstract of Examinations Performed, Page 7 See Attachment 1, Abstract of System Pressure Tests, Page 11 4. Abstract of Results of Examinations and Tests.	
See Attachment 1, Examination Summary, Page 3	
5. Abstract of Corrective Measures. See Attachment 1, Examination Summary, Page 3	
Certificate of Authorization No. (if applicable) NA Expiration Date NA Date 12 15 19 99 Signed Virginia Elect. & Power Co. Owner	è
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors	
the State or Province of Virginia and employed by H.S.B.I. & I. Co.	
Hartford, CT have inspected the components described in this Owner's Report during the pe 5/3/98 to 10/8/99 , and state that to the best of my knowledge and belief,	noa 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, concern	-
the examinations, tests, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from	
connected with this inspection.	0.
Mark M. Ause Commissions VA 424-R	
Inspector's Signature National Board, State, Province, and Endorsements	
Date	

Form NIS-1 (Supplemental Sheet) Owner's Report For Inservice Inspections As required by the Provisions of the ASME Code Rules

Owner: Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen VA 23060
 Plant: North Anna Power Station, P. O. Box 402, Mineral, Virginia 23117
 Plant Unit: 2
 Owner Certificate of Authorization (if required): NA

3. Plant Unit: 25. Commercial Service Date: 6. National Board Number for Unit: NA 12-14-80

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Class 2 Piping, Dwg. 0103AA Spool Piece (SP) SI-216-2, Weld SW-26	Southwest Fabricating	2555	NA	NA
Class 1 Piping, Dwg. 0103AD SP SI-216-9, Weld SW-47 SP SI-208-2R, Weld SW-51	Southwest Fabricating Southwest Fabricating	2557 2375	NA NA	NA NA
Class 1 Piping, Dwg. 0103AG SP SI-226-4, Weld SW-62	Southwest Fabricating	4699	NA	NA NA
Class 1 Piping, Dwg. 0103AH SP SI-227-2, Weld SW-65 Class 1 Piping, Dwg. 0103AY	Southwest Fabricating	2700	NA	NA
SP RC-203-1, Weld SW-32 Class 1 Piping, Dwg. 0103AZ	Southwest Fabricating	2846	NA NA	NA
SP RC-203-2, Weld 3 Class 1 Piping, Dwg. 0103BE	Southwest Fabricating	2847	NA NA	NA NA
SP SI-219-4, Weld 16A Class 1 Piping, Dwg. 0103BE SP SI-217-11, Weld SW-74	Southwest Fabricating	2827	NA NA	NA .
Class 1 Piping, Dwg. 0103BH SP CH-205-14, Welds 24 and SW-39	Southwest Fabricating Southwest Fabricating	2720	NA NA	NA NA
Class 1 Piping, Dwg. 0103BN SP SI-215-6, Welds SW-51 and SW-52	Southwest Fabricating	2551	NA	NA
Class 1 Piping, Dwg. 0103BP SP SI-216-5, Weld SW-41 Class 1 Piping, Dwg. 0103CB	Southwest Fabricating	2833	NA	NA
SP RC-203-14, Weld SW-57 SP RC-203-12, Weld SW-69	Southwest Fabricating Southwest Fabricating	2860 2858	NA NA	NA NA
Class 1 Piping, Dwg. 0109A SP VGB-LOOP-1-BPI, Weld SW-11 Class 1 Piping, Dwg. 0109D	Southwest Fabricating	311	NA	NA
SP VGB-SURGE-1, Weld 2 Class 1 Piping, Dwg. 0110A-1	Southwest Fabricating	310	NA	NA
SP RC-201-12, Weld SW-12 Class 1 Piping, Dwg. 0110A-2	Southwest Fabricating	2387	NA NA	NA NA
SP RC-201-8, Weld SW-42 Class 1 Piping, Dwg. 0110B	Southwest Fabricating	2385	NA	NA
SP RC-202-3, Weld SW-65 Class 1 Piping, Dwg. 0111AD-1	Southwest Fabricating	2391	NA NA	NA NA
SP RC-205-14, Weld 3 Class 1 Piping, Dwg. 0111AD-2	Southwest Fabricating	2991	NA NA	NA NA
SP RC-206-14, Weld 26 SP RC-206-16, Weld SW-41	Southwest Fabricating Southwest Fabricating	2974 2976	NA	NA
Class 1 Piping, Dwg. 0113A-1 SP RH-204-2, Weld SW-32 Class 1 Piping, Dwg. 0113B	Southwest Fabricating	4532	NA	NA
SP SI-205-6, Weld 1	Southwest Fabricating	2791	NA NA	NA

Attachment 1 Page 3 of 30 Serial No.: 99-601 Docket No.: 50-339

Examination Summary

Virginia Electric and Power Company North Anna Power Station

Unit 2

1999 Refueling Outage 2nd Interval, 3rd Period

Introduction

This report covers inservice examinations and tests of Class 1 and Class 2 components, piping and component supports that were conducted at North Anna Power Station Unit 2 from May 3, 1998 through October 8, 1999. The examinations were conducted to meet the requirements of ASME Section XI, 1986 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. Mark Grace and Mr. Robert Smith), and North Anna 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 1986 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 the required ultrasonic examination volume or area could not be examined 100%, the examination method was evaluated and alternate beam angles or methods were considered in an

Attachment 1 Page 4 of 30 Serial No.: 99-601 Docket No.: 50-339

attempt to achieve the maximum examination volume. In the case of surface examinations where full coverage could not be achieved, an alternate component was considered for examination. However, where 100% examination was not possible the examination was considered to be a partial and so noted on the examination report. Where the reduction in coverage was 10% or greater, per Code Case N-460, a subsequent relief request will be provided by separate correspondence.

Results

Examinations of components, and piping resulted in no items being reported on the basis of procedure reporting criteria. Examinations of component supports resulted in no items being reported on the basis of procedure reporting criteria.

Resolution of Previous Outage Summary Report Commitments

The following is a brief summary of open commitments made in previous outage summary reports:

1. Letter Serial No. 96-629, Attachment 1, page 5:

A commitment was made to submit a relief request, if necessary, after examining the remainder of weld 1 on 2-SI-TK-2. A portion of the weld is scheduled for examination each period. Full coverage of the required volume could not be achieved for the examination performed during the second period. The remainder of the weld was examined this outage. A relief request will be submitted.

2. Letter Serial No. 98-410, Attachment 1, page 5:

A commitment was made to submit relief requests for the following welds due to failing to achieve the required volume or surface coverage required by ASME Section XI:

Weld 32 shown on drawing 12050-WMKS-0109G-1. Relief request NDE-40 was submitted to the NRC by Letter Serial No. 98-513 dated September 18, 1998.

Weld 33 shown on drawing 12050-WMKS-0109G-1. Relief request NDE-40 was submitted to the NRC by Letter Serial No. 98-513 dated September 18, 1998.

Weld SW-35 shown on drawing 12050-WMKS-0109G-2. Relief request NDE-41 was submitted to the NRC by Letter Serial No. 98-513 dated September 18, 1998.

Weld SW-36 shown on drawing 12050-WMKS-0109G-2. Relief request NDE-41 was submitted to the NRC by Letter Serial No. 98-513 dated September 18, 1998.

Attachment 1 Page 5 of 30 Serial No.: 99-601 Docket No.: 50-339

Weld SW-47 shown on drawing 12050-WMKS-0109G-2. Relief request NDE-41 was submitted to the NRC by Letter Serial No. 98-513 dated September 18, 1998.

Weld SW-48 shown on drawing 12050-WMKS-0109G-2. Relief request NDE-41 was submitted to the NRC by Letter Serial No. 98-513 dated September 18, 1998.

Weld SW-49 shown on drawing 12050-WMKS-0109G-2. Relief request NDE-41 was submitted to the NRC by Letter Serial No. 98-513 dated September 18, 1998.

3. Letter Serial No. 98-410, Attachment 1, page 7:

A commitment was made to submit relief requests for the following welds due to failing to achieve the required surface coverage required by ASME Section XI:

Weld WS-01 shown on drawing 12050-WMKS-CH-P-1C. Relief request NDE-42 was submitted to the NRC by Letter Serial No. 98-513 dated September 18, 1998.

Weld WS-04 shown on drawing 12050-WMKS-CH-P-1C. Relief request NDE-42 was submitted to the NRC by Letter Serial No. 98-513 dated September 18, 1998.

4. Letter Serial No. 98-410, Attachment 2, RR# 98-040:

A commitment was made to verify the nameplate of snubber 2-RC-HSS-011B during the next outage. The nameplate was verified. The information is not in agreement with certification documentation provided by the supplier. The supplier corrected this discrepancy and provided a certificate of compliance.

5. Letter Serial No. 98-410, Attachment 2, RR# 98-056:

A commitment was made to verify the nameplate of snubber 2-RC-HSS-010B during the next outage. The nameplate was verified. The information is not in agreement with certification documentation provided by the supplier. The supplier corrected this discrepancy and provided a certificate of compliance.

Analytical Evaluation

Analytical evaluation(s) of examination results (Volumetric and/or Surface examinations):

None required or performed.

Evaluation Analyses

Evaluation analyses of examination results (Visual Examinations):

None required or performed.

Attachment 1 Page 6 of 30 Serial No.: 99-601 Docket No.: 50-339

Statement of Interval Status

Virginia Electric and Power Company has completed 87 percent of the third period system pressure test examinations and 95 percent of the interval system pressure test examinations.

Virginia Electric and Power Company has completed 75 percent of the third period ISI-NDE examinations and 90 percent of the interval ISI-NDE examinations.

Attachment 1 Page 7 of 30 Serial No.: 99-601 Docket No.: 50-339

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DRAWING NO.	MARK/WELD NO.	LINE NO.	ISI CLASS	GORY	NO NO	METHOD	DATE	REMARKS
12050-WMKS-0101A-1	LS-96(50)	32"-SHP-401-601-Q2	2	C-F-2	C5.52	MT/UT	9/28/1999	
12050-WMKS-0101A-1	SW-8W	32"-SHP-422-601-Q2	2	C-F-2	C5.81	MT	10/2/1999	
12050-WMKS-0101A-2	LS-115W(SW-82)	32"-SHP-423-601-Q2	2	C-F-2	C5.52	MT/UT	10/6/1999	
12050-WMKS-0101A-2	LS-115W(SW-88)	32"-SHP-423-601-Q2	2	C-F-2	C5.52	MT/UT	10/6/1999	
12050-WMKS-0101A-2	LS-95(1)	32"-SHP-402-601-Q2	2	C-F-2	C5.52	MT/UT	9/28/1999	
12050-WMKS-0101C	27	32"-SHP-402-601-Q2	2	C-F-2	C5.51	MT/UT	9/23/1999	
12050-WMKS-0101GC	6	6"-SHP-439-601-Q2	2	C-F-2	C5.51	MT/UT	10/2/1999	
12050-WMKS-0102B	42	16"-WFPD-423-601C-Q2	2	C-F-2	C5.51	MT/UT	9/24/1999	
	60		2					
12050-WMKS-0102C	SW-26	16"-WFPD-422-601C-Q2 6"-SI-419-1502-Q1		C-F-2	C5.51	MT/UT	9/21/1999	
12050-WMKS-0103AA	2-SI-113-		2	C-F-1	C5.11	PT/UT	9/28/1999	
12050-WMKS-0103AD	BOLTING	6"-SI-419-1502-Q1	1	B-G-2	B7.70	VT-1	9/13/1999	
12050-WMKS-0103AD	21B	2"-SI-459-1502-Q1	1	B-J	B9.40	PT	9/29/1999	
12050-WMKS-0103AD	SW-47	6"-SI-419-1502-Q1	i	B-J	B9.32	ΡŤ	9/25/1999	
12050-WMKS-0103AD	SW-51	2"-SI-459-1502-Q1	i	B-J	B9.40	PŤ	9/29/1999	
12050-WMKS-0103AB	2-SI-124-	6"-SI-421-1502-Q1	i	B-G-2	B7.70	VT-1	9/13/1999	
12030-4414170-010376	BOLTING	0 -31-421-1502-Q1	1	D-G-2	67.70	V 1-1	3/13/1333	
12050-WMKS-0103AG	2-SI-R-1	2"-SI-461-1502-Q1	1	F-A	F1.0	VT-3	9/26/1999	
12050-WMKS-0103AG	3A	6"-RC-416-1502-Q1	1	B-J	B9.11	PT/UT	9/25/1999	
12050-WMKS-0103AG	SW-62	6"-SI-421-1502-Q1	i	B-J	B9.32	PT	9/20/1999	
12050-WMKS-0103AH	2-SI-R-1	6"-SI-416-1502-Q1	2	F-A	F1.0	VT-3	9/26/1999	
12050-WMKS-0103AH	36	2"-SI-463-1502-Q1	1	B-J	B9.40	PT	9/27/1999	
12050-WMKS-0103AH	38	2"-SI-463-1502-Q1	i	B-J	B9.40	PT	9/27/1999	
12050-WMKS-0103AH	SW-65	2"-SI-463-1502-Q1	i	B-J	B9.40	PT	9/27/1999	
12050-WMKS-0103AR	FB-FLG-2	2"-CH-494-1502-Q1	1	B-G-2	B7.50	VT-1	9/28/1999	
12050-WMKS-0103AT	SW-82	1 1/2"-CH-798-1502-Q1	1	B-G-2 B-J	B9.40	PT		•
							9/29/1999	
12050-WMKS-0103AY	24 SW-32	3"-RC-619-1502-Q1	1	B-J	B9.21	PT	9/25/1999	
12050-WMKS-0103AY		2"-RC-620-1502-Q1	1	B-J	B9.21	PT	9/27/1999	
12050-WMKS-0103AZ	19A	2"-RC-620-1502-Q1	1	B-J	B9.21	PT	9/18/1999	
12050-WMKS-0103AZ	3	2"-RC-620-1502-Q1	1	B-J	B9.21	PT	9/18/1999	
12050-WMKS-0103BA	22	2"-RC-618-1502-Q1	1	B-J	B9.21	PT	9/25/1999	
12050-WMKS-0103BC	28A	2"-SI-455-1502-Q1	2	C-F-1	C5.30	PT	9/26/1999	* •
12050-WMKS-0103BE	1	6"-RC-417-1502-Q1	1	B-J	B9.11	PT/UT	9/20/1999	
12050-WMKS-0103BE	16A	2"-SI-451-1502-Q1	2	C-F-1	C5.30	PT	9/24/1999	
12050-WMKS-0103BE	2	6"-RC-417-1502-Q1	1	B-J	B9.11	PT/UT	9/20/1999	
12050-WMKS-0103BE	2-SI-92- BOLTING	6"-SI-531-1502-Q1	1	B-G-2	B7.70	VT-1	9/13/1999	
12050-WMKS-0103BE	SW-74	6"-SI-531-1502-Q1	1	B-J	B9.32	PT	9/20/1999	
12050-WMKS-0103BH	24	2"-CH-409-1502-Q1	1	B-J	B9.40	ΡΤ	9/14/1999	100
12050-WMKS-0103BH	SW-39	2"-CH-409-1502-Q1	i	B-J	B9.40	PT	9/14/1999	
12050-WMKS-0103BK	1	2"-RC-598-1502-Q1	i	B-J	B9.40	ΡΤ	9/18/1999	
12050-WMKS-0103BN	SW-51	6"-SI-532-1502-Q1	i	B-J	B9.11	PT/UT	9/26/1999	
12050-WMKS-0103BN	SW-52	6"-SI-532-1502-Q1	i	B-J	B9.11	PT/UT	9/26/1999	
12050-WMKS-0103BP	SW-41	6"-SI-533-1502-Q1	i	B-J	B9.11	PT/UT	9/18/1999	
12050-WMKS-0103DF	7	3"-RC-615-1502-Q1	i	B-J	B9.21	PT	9/19/1999	
40050 1488140 040000	, SW-57							
12050-WMKS-0103CB	SW-69	2"-RC-453-1502-Q1	1	B-J	B9.21	PT	9/20/1999	
12050-WMKS-0103CB		3"-RC-615-1502-Q1	1	B-J	B9.21	PT	9/19/1999	
12050-WMKS-0104C-2	2-SI-R-56	10"-SI-629-153A-Q2	2	F-A	F1.0	VT-3	10/5/1999	
12050-WMKS-0104C-2	2-SI-R-57	107-SI-629-153A-Q2	2	F-A	F1.0	VT-3	10/5/1999	
12050-WMKS-0104DA	21	12"-RS-408-153A-Q2	2	C-F-1	C5.41	PT	10/6/1999	
12050-WMKS-0107B	14	16"-SI-407-153A-Q3	2	C-F-1	C5.11	PT/UT	9/30/1999	
12050-WMKS-0107B	2	16"-SI-407-153A-Q3	2	C-F-1	C5.11	PT/UT	10/1/1999	
12050-WMKS-0107B	LS-69(14)	16"-SI-407-153A-Q3	2	C-F-1	C5.12	PT/UT	10/1/1999	
12050-WMKS-0107B	LS-69(2)	16"-SI-407-153A-Q3	2	C-F-1	C5.12	PT/UT	10/1/1999	
12050-WMKS-0109A	1	8"-RC-411-2501R-Q1	1	B-J	B9.11	PT/UT	9/21/1999	
12050-WMKS-0109A	SW-11	8"-RC-411-2501R-Q1	1	B-J	B9.32	PT	9/21/1999	
12050-WMKS-0109B	SW-14	8*-RC-412-2501R	1	B-J	B9.11	PT/UT	9/20/1999	
12050-WMKS-0109D	2	14"-RC-410-2501R-Q1	1	B-J	B9.11	PT/UT	9/20/1999	
12050-WMKS-0109E-1	8	31"-RC-402-2501R-Q1	1	B-J	B9.11	PT/UT	9/21/1999	Ρ.
12050-WMKS-0109F-1	21	27 1/2"-RC-406-2501R-Q1		B-J	B9.11	PT/UT	9/26/1999	P
12050-WMKS-0109F-2	1	3*-RC-516-1502-Q1	1	B-J	B9.21	PT	9/25/1999	
12050-WMKS-0110A-1	SW-12	6"-RC-438-1502-Q1	1	B-J	B9.11	PT/UT	9/17/1999	
12050-WMKS-0110A-1	SW-6	6"-RC-437-1502-Q1	1	B-F	B5.40	PT/UT	9/18/1999	

IWB, IWC and IWF								
DRAWING NO.	MARK/WELD NO.	LINE NO.	ISI CLASS	CATE- GORY	ITEM NO	EXAM METHOD	EXAM DATE	REMARKS
12050-WMKS-0110A-2	SW-40	4"-RC-434-1502-Q1	1	B-F	B5.40	PT/UT	9/17/1999	
12050-WMKS-0110A-2	SW-42	3"-RC-435-1502-Q1	i	B-J	B9.21	PT	9/16/1999	
12050-WMKS-0110B	50	4"-RC-414-1502-Q1	i	B-J	B9.11	PT/UT	9/24/1999	
12050-WMKS-0110B	SW-65	4"-RC-414-1502-Q1	1	B-J	B9.11	PT/UT	9/30/1999	
12050-WMKS-0110C	23A	4"-RC-414-1502-Q1	i	B-J	B9.11	PT/UT	9/27/1999	
12050-WMKS-0110D	2-RC-CSH-39	4"-RC-415-1502-Q1	1	F-C	F3.0	VT-3	9/26/1999	
12050-WMKS-0111AAD	26	3"-CH-667-1502-Q2	ż	C-F-1	C5.21	PT/UT	9/15/1999	
12050-WMKS-0111AAD	SW-72W	4"-CH-480-1502-Q2	2	C-F-1	C5.21	PT/UT	9/15/1999	,
12050-WMKS-0111AAG	49A	3"-SI-567-1502-Q2	2	C-F-1	C5.21	PT/UT	9/29/1999	
12050-WMKS-0111AAJ	47	6"-SI-570-1502-Q2	2	C-F-1	C5.11	PT/UT	9/22/1999	
12050-WMKS-0111AAJ	SW-37	3"-SI-536-1502-Q2	2	C-F-1	C5.21	PT/UT	9/15/1999	
12050-WMKS-0111AAP	3	3"-CH-778-1502-Q2	2	C-F-1	C5.21	PT/UT	9/16/1999	
12050-WMKS-0111AAP	88A	2"-CH-938-1502-Q2	2	C-F-1	C5.30	PT	9/13/1999	
12050-WMKS-0111AB	10	2"-CH-405-1502-Q1	1	B-J	B9.21	PT	9/19/1999	
12050-WMKS-0111AB	11A	2"-CH-801-1502-Q1	1	B-J	B9.21	PT	9/22/1999	
12050-WMKS-0111AB	13	2"-CH-405-1502-Q1	. 1	B-J	B9.40	PT	9/24/1999	
12050-WMKS-0111AB	65	2"-CH-801-1502-Q1	1	B-J	B9.21	PT	9/22/1999	
12050-WMKS-0111AB	66	2"-CH-801-1502-Q1	1	B-J	B9.21	PT	9/22/1999	
12050-WMKS-0111AD-1	3	2"-RC-445-1502-Q1	1	B-J	B9.40	PT	9/21/1999	
12050-WMKS-0111AD-1	FLANGE-1	2"-RC-445-1502-Q1	1	B-G-2	B7.50	VT-1	9/13/1999	
12050-WMKS-0111AD-2	26	2"-RC-446-1502-Q1	1	B-J	B9.40	PT	9/26/1999	
12050-WMKS-0111AD-2		2"-RC-446-1502-Q1	11	B-J	B9.40	PT	9/26/1999	
12050-WMKS-0111AQ	76	6"-CH-418-153A-Q2	2	C-F-1	C5.11	PT/UT	9/13/1999	
12050-WMKS-0111DA	LS-61W(25W)	6"-CH-418-153A-Q2	2	C-F-1	C5.12	PT/UT	9/15/1999	
12050-WMKS-0111DA	LS-61W(26W)	6"-CH-418-153A-Q2	2	C-F-1	C5.12	PT/UT	9/15/1999	
12050-WMKS-0111DA	SW-25W	6"-CH-418-153A-Q2	. 2	C-F-1	C5.11	PT/UT	9/15/1999	
12050-WMKS-0111DA	SW-26W	6"-CH-418-153A-Q2	2	C-F-1	C5.11	PT/UT	9/15/1999	
12050-WMKS-0111W	42	2*-CH-468-1502-Q1	1	B-J	B9.21	PT	9/28/1999	
12050-WMKS-0111W	46A	2*-CH-468-1502-Q1	1	B-J	B9.21	PT	9/27/1999	
12050-WMKS-0111W	4A	3"-CH-814-1502-Q1	1	B-J	B9.21	PT	9/27/1999	
12050-WMKS-0111W	5B	3"-CH-814-1502-Q1	1	B-J	B9.21	PT	9/27/1999	
12050-WMKS-0111Z	32	2"-CH-801-1502-Q1	1	B-J	B9.21	PT	9/26/1999	
12050-WMKS-0111Z	33A	2"-CH-801-1502-Q1	1	B-J	B9.21	PT	9/26/1999	
12050-WMKS-0111Z	34	2"-CH-801-1502-Q1	1	B-J	B9.21	PT	9/26/1999	
12050-WMKS-0111Z	35	2"-CH-801-1502-Q1	1	B-J	B9.21	PT	9/26/1999	
12050-WMKS-0113A-1	2-RH-MOV-2700- BOLTING	14"-RH-401-1502-Q1	1	B-G-2	B7.70	VT-1	9/13/1999	
12050-WMKS-0113A-1	SW-32	14*-RH-401-1502-Q1	1	B-J	B9.11	PT/UT	9/22/1999	
12050-WMKS-0113A-2	LS-75(SW-32)	12"-RH-406-602-Q2	2	C-F-1	C5.12	PT/UT	9/22/1999	
12050-WMKS-0113A-2	SW-32	12"-RH-406-602-Q2	2	C-F-1	C5.11	PT/UT	9/22/1999	P1 .
12050-WMKS-0113B	1	12"-RC-423-1502-Q1	1	B-J	B9.11	PT/UT	9/26/1999	
12050-WMKS-0113B	2-SI-170- BOLTING	12"-SI-468-1502-Q1	1	B-G-2	B7.70	VT-1	9/13/1999	
12050-WMKS-0113C-2	1	10"-RH-413-1502-Q2	2	C-F-1	C5.11	PT/UT	9/22/1999	
12050-WMKS-RC-E-1A.1			1	B-B	B2.40	UT	9/24/1999	
12050-WMKS-RC-E-1A.1			2	C-C	C3.10	MT or PT	9/24/1999	
12050-WMKS-RC-E-1A.2			2	C-B	C2.22	UT	9/29/1999	
12050-WMKS-RC-E-1B.1		2-RC-E-1B	1	B-G-2	B7.30	VT-1	9/13/1999	
12050-WMKS-RC-E-1B.1		2-RC-E-1B	1	B-G-2	B7.30	VT-1	9/19/1999	
12050-WMKS-RC-E-1B.1	SID	2-RC-E-1A	1	B-Q	B16.20	ET	9/21/1999	
12050-WMKS-RC-E-1C.1			2	C-A	C1.10	UT	9/26/1999	•
12050-WMKS-RC-E-2	1		1	B-B	B2.12	UT	9/17/1999	
12050-WMKS-RC-E-2	13		1	B-D	B3.110	UT	9/19/1999	P
12050-WMKS-RC-E-2	2-RC-E-2	2-RC-E-2	1	B-E	B4.13	VT-2	9/12/1999	
12050-WMKS-RC-E-2	2-RC-E-2	2-RC-E-2	1	B-E	B4.11	VT-2	9/12/1999	
12050-WMKS-RC-E-2	3		1	B-B	B2.12	UT	9/19/1999	
12050-WMKS-RC-E-2	4		1	B-B	B2.11	ŲT	9/17/1999	P1
12050-WMKS-RC-E-2	7		1	B-B	B2.11	ÚT	9/19/1999	P1
12050-WMKS-RC-E-2	8	2-RC-E-2	1	B-K	B10.10	UT	9/17/1999	P1
12050-WMKS-RC-E-2	9	0.00.0	1	B-D	B3.110	VT-2	9/12/1999	
12050-WMKS-RC-E-2	GROUP(IMM HEAT ELEM)	2-RC-R-1	1	B-E	B4.20	VT-2	9/12/1999	

		IWB, IWC	and ivvr					
DRAWING NO.	MARK/WELD NO.	LINE NO.	ISI <u>Class</u>	CATE- GORY	NO NO	METHOD	EXAM DATE	REMARKS
12050-WMKS-RC-E-2	MANWAY	2-RC-E-2	1	B-G-2	B7.20	VT-1	9/13/1999	
12050-WMKS-RC-E-2	WS-3	2-RC-E-2	1	B-K	B10.10	PT	9/25/1999	
12050-WMKS-RC-E-2	WS-4	2-RC-E-2	1	B-K	B10.10	PT	9/25/1999	
12050-WMKS-RC-P-1A.1	1	2-RC-P-1A	1	B-L-1	B12.10	PT & VT-1	9/25/1999	
12050-WMKS-RC-R-1.1	2-RC-R-1	2-RC-R-1	1	B-E	B4.13	VT-2	9/13/1999	
12050-WMKS-RC-R-1.2	1		1	B-A	B1.40	MT/UT	9/23/1999	P1
12050-WMKS-RC-R-1.2	CRD-47		1	B-O	B14.10	PT	9/23/1999	
12050-WMKS-RC-R-1.2	CRD-52		1	B-O	B14.10	PT	9/23/1999	
12050-WMKS-RC-R-1.2	CRD-64		1	B-0	B14.10	PT	9/23/1999	
12050-WMKS-RC-R-1.3	S-20	2-RC-R-1	1	B-G-1	B6.30	MT/UT	9/23/1999	
12050-WMKS-RC-R-1.3 12050-WMKS-RC-R-1.3	S-31	2-RC-R-1	1	B-G-1	B6.30	MT/UT	9/20/1999	
12050-WMKS-RC-R-1.3	S-32 S-33	2-RC-R-1 2-RC-R-1	1 1	B-G-1 B-G-1	B6.30 B6.30	MT/UT MT/UT	9/20/1999 9/20/1999	
12050-WMKS-RC-R-1.3	S-34	2-RC-R-1	1	B-G-1	B6.30	MT/UT	9/20/1999	
12050-WMKS-RC-R-1.3	S-35	2-RC-R-1	i	B-G-1	B6.30	MT/UT	9/21/1999	
12050-WMKS-RC-R-1.3	S-36	2-RC-R-1	i	B-G-1	B6.30	MT/UT	9/21/1999	
12050-WMKS-RC-R-1.3	S-37	2-RC-R-1	i	B-G-1	B6.30	MT/UT	9/21/1999	
12050-WMKS-RC-R-1.3	S-38	2-RC-R-1	1	B-G-1	B6.30	MT/UT	9/21/1999	
12050-WMKS-RC-R-1.3	S-39	2-RC-R-1	1	B-G-1	B6.30	MT/UT	9/20/1999	
12050-WMKS-RC-R-1.3	S-40	2-RC-R-1	1	B-G-1	B6.30	MT/UT	9/20/1999	
12050-WMKS-RC-R-1.3	S-41	2-RC-R-1	1	B-G-1	B6.30	MT/UT	9/22/1999	
12050-WMKS-RC-R-1.3	S-42	2-RC-R-1	1	B-G-1	B6.30	MT/UT	9/22/1999	
12050-WMKS-RC-R-1.3	S-43	2-RC-R-1	1	B-G-1	B6.30	MT/UT	9/22/1999	
12050-WMKS-RC-R-1.3	S-44	2-RC-R-1	1	B-G-1	B6.30	MT/UT	9/22/1999	
12050-WMKS-RC-R-1.3	S-45	2-RC-R-1	1	B-G-1	B6.30	MT/UT	9/22/1999	
12050-WMKS-RC-R-1.3	S-46	2-RC-R-1	1	B-G-1	B6.30	MT/UT	9/23/1999	
12050-WMKS-RC-R-1.3	S-47	2-RC-R-1	1	B-G-1	B6.30	MT/UT	9/23/1999	
12050-WMKS-RC-R-1.3 12050-WMKS-RC-R-1.3	S-48 S-49	2-RC-R-1	1 1	B-G-1	B6.30	MT/UT	9/22/1999	
12050-WMKS-RC-R-1.4	CCW-20	2-RC-R-1 2-RC-R-1	1	B-G-1 B-G-1	B6.30 B6.50	MT/UT VT-1	9/22/1999 9/23/1999	
12050-WMKS-RC-R-1.4	CCW-31	2-RC-R-1	4	B-G-1	B6.50	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	CCW-32	2-RC-R-1	i	B-G-1	B6.50	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	CCW-33	2-RC-R-1	i	B-G-1	B6.50	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	CCW-34	2-RC-R-1	i	B-G-1	B6.50	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	CCW-35	2-RC-R-1	i	B-G-1	B6.50	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	CCW-36	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	CCW-37	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	CCW-38	2-RC-R-1	- 1	B-G-1	B6.50	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	CCW-39	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	CCW-40	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	CCW-41	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4 12050-WMKS-RC-R-1.4	CCW-42 CCW-43	2-RC-R-1 2-RC-R-1	1	B-G-1	B6.50	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	CCW-44	2-RC-R-1 2-RC-R-1	1	B-G-1	B6.50	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	CCW-45	2-RC-R-1 2-RC-R-1	1	B-G-1 B-G-1	B6.50 B6.50	VT-1 VT-1	9/22/1999 9/22/1999	
12050-WMKS-RC-R-1.4	CCW-46	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/23/1999	
12050-WMKS-RC-R-1.4	CCW-47	2-RC-R-1	i	B-G-1	B6.50	VT-1	9/23/1999	
12050-WMKS-RC-R-1.4	CCW-48	2-RC-R-1	i	B-G-1	B6.50	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	CCW-49	2-RC-R-1	Ì	B-G-1	B6.50	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	CVW-20	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/23/1999	
12050-WMKS-RC-R-1.4	CVW-31	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	CVW-32	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	CVW-33	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	CVW-34	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	CVW-35	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	CVW-36	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	CVW-37	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	CVW-38	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	CVW-39	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4 12050-WMKS-RC-R-1.4	CVW-40 CVW-41	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	CVW-41	2-RC-R-1 2-RC-R-1	1	B-G-1 B-G-1	B6.50 B6.50	VT-1 VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	CVV-42 CVW-43	2-RC-R-1	1	B-G-1	B6.50	VI-1 VT-1	9/22/1999 9/22/1999	
.2000 THRICO-(10-11-114	J111-70	=1\V=*1	•	D-G-1	50.50	W 1-1	312211333	

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			ISI	CATE-	ITEM	EXAM	EXAM	
DRAWING NO.	MARKWELD NO.	LINE NO.	CLASS	GORY	NO	METHOD	DATE	REMARKS
12050-WMKS-RC-R-1.4	CVW-44	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	CVW-45	2-RC-R-1	i	B-G-1	B6.50	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	CVW-46	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/23/1999	
12050-WMKS-RC-R-1.4	CVW-47	2-RC-R-1	i	B-G-1	B6.50	VT-1	9/23/1999	
12050-WMKS-RC-R-1.4	CVW-48	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	CVW-49	2-RC-R-1	1	B-G-1	B6.50	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	N-20	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/23/1999	
12050-WMKS-RC-R-1.4	N-31	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	N-32	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	N-33	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	N-34	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	N-35	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	N-36	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	N-37	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	N-38	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/21/1999	
12050-WMKS-RC-R-1.4	N-39	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	N-40	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/20/1999	
12050-WMKS-RC-R-1.4	N-41	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	N-42	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	N-43	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	N-44	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	N-45	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	N-46	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/23/1999	
12050-WMKS-RC-R-1.4	N-47	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/23/1999	
12050-WMKS-RC-R-1.4	N-48	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/22/1999	
12050-WMKS-RC-R-1.4	N-49	2-RC-R-1	1	B-G-1	B6.10	VT-1	9/22/1999	
12050-WMKS-RH-E-1A	4B		2	C-B	C2.31	PT	9/22/1999	
12050-WMKS-RH-E-1B	3		2	C-B	C2.33	VT-2	9/14/1999	
12050-WMKS-RH-E-1B	4		2 2 2 2 2 2	C-B	C2.33	VT-2	9/14/1999	
12050-WMKS-SI-TK-2	1		2	C-A	C1.20	UT	9/19/1999	P1
12050-WMKS-SI-TK-2	2		2	C-A	C1.20	UT	9/19/1999	
12050-WMKS-SI-TK-2	3		2	C-B	C2.21	MT	9/24/1999	
12050-WMKS-SI-TK-2	3		2	C-B	C2.21	UT	9/28/1999	P
12050-WMKS-SI-TK-2	4		2	C-B	C2.21	UT	9/28/1999	P
12050-WMKS-SI-TK-2	4		2	C-B	C2.21	MT	9/24/1999	
12050-WMKS-SI-TK-2	WS-1		2 2 2 2	C-C	C3.10	MT	9/24/1999	
12050-WMKS-SI-TK-2	WS-2		2	C-C	C3.10	MT	9/24/1999	
12050-WMKS-SI-TK-2	WS-3		2	C-C	C3.10	MT	9/24/1999	
12050-WMKS-SI-TK-2	WS-4		2	C-C	C3.10	MT	9/24/1999	

P - Partial examination, (reduction in coverage is 10% or greater as allowed by Code Case N-460) relief will be submitted by separate correspondence.

P1 – Partial examination, (reduction in coverage is less than 10% as allowed by Code Case N-460) relief is not required.

Attachment 1 Page 11 of 30 Serial No.: 99-601 Docket No.: 50-339

ZONE NO	DESCRIPTION	SPT NO	ASME CLASS	CATE- GORY	ITEM NO	COMPL DATE	REMARKS
11715-SPM-078B-3-1	SW TO RECIRC SPRAY HT.EX	2-SW-002	2	С-Н	C7.20	9/14/1999	
11715-SPM-078B-3-1	SW TO RECIRC SPRAY HT.EX	2-SW-002	2	C-H	C7.40	9/14/1999	
11715-SPM-078B-3-1	SW TO RECIRC SPRAY HT.EX	2-SW-002	2	C-H	C7.80	9/14/1999	
11715-SPM-078B-3-2	SW TO RECIRC. SPRAY HT. EX	2-SW-001	2	C-H	C7.20	9/14/1999	
11715-SPM-078B-3-2	SW TO RECIRC. SPRAY HT. EX	2-SW-001	2	C-H	C7.40	9/14/1999	
11715-SPM-078B-3-2	SW TO RECIRC. SPRAY HT. EX	2-SW-001	2	C-H	C7.80	9/14/1999	
11715-SPM-078B-3-3	SW TO RECIRC. SPRAY HT. EX	2-SW-001	2	C-H	C7.20	9/14/1999	
11715-SPM-078B-3-3	SW TO RECIRC. SPRAY HT. EX	2-SW-001	2	C-H	C7.40	9/14/1999	
11715-SPM-078B-3-3	SW TO RECIRC. SPRAY HT. EX	2-SW-001	2	C-H	C7.80	9/14/1999	
11715-SPM-078B-3-4	SW TO RECIRC SPRAY HT.EX	2-SW-002	2	C-H	C7.20	9/14/1999	
11715-SPM-078B-3-4	SW TO RECIRC SPRAY HT.EX	2-SW-002	2	C-H	C7.40	9/14/1999	
11715-SPM-078B-3-4	SW TO RECIRC SPRAY HT.EX	2-SW-002	2	C-H	C7.80	9/14/1999	
11715-SPM-088A-1-6	'B' LOW HEAD SAFETY INJECTION PUMP	2-SI-010	2	C-H	C7.40	8/28/1999	
11715-SPM-088A-1-6	B' LOW HEAD SAFETY INJECTION PUMP	2-SI-010	2	C-H	C7.80	8/28/1999	
11715-SPM-106A-1-1	HYDROGEN ANALYZER PEN. 31	2-HC-002	2	C-H	C7.40	9/16/1999	Common with Unit 1, Unit 2 portion is between 2-
11715-SPM-106A-1-1	HYDROGEN ANALYZER PEN. 31	2-HC-002	2	С-Н	C7.80	9/16/1999	HC-TV-205A and 2-HC-TV-205B Common with Unit 1, Unit 2 portion is between 2- HC-TV-205A and 2-HC-TV-205B
11715-SPM-106A-1-5	HYDROGEN ANALYZER PEN. 31	2-HC-002	2	C-H	C7.40	9/16/1999	110-1 V-2007 and 2-110-1 V-2005
11715-SPM-106A-1-5	HYDROGEN ANALYZER PEN. 31	2-HC-002	2	С-Н	C7.80	9/16/1999	
11715-SPM-106A-2-4	HYDROGEN ANALYZER PEN. 105	2-HC-003	2	С-Н	C7.40	9/22/1999	
11715-SPM-106A-2-4 11715-SPM-106A-3-2	HYDROGEN ANALYZER PEN. 105 HRSS SAMPLE PEN. 98	2-HC-003 2-HC-005	2 2	C-H C-H	C7.80 C7.40	9/22/1999 9/22/1999	
11715-SPM-106A-3-2	HRSS SAMPLE PEN. 98	2-HC-005	2	С-Н	C7.80	9/22/1999	
11715-SPM-106A-4-3	CONTAINMENT VACUUM PUMPS PEN. 93	2-CV-002	2	С-Н	C7.40	9/13/1999	Common with Unit 1, Unit 2 portion is between 2-
11715-SPM-106A-4-3	CONTAINMENT VACUUM PUMPS PEN. 93	2-CV-002	2	С-Н	C7.80	9/13/1999	HC-TV-206A and 2-HC-TV-206B Common with Unit 1, Unit 2 portion is between 2-HC-TV-206A and 2-HC-TV-206B
11715-SPM-106A-4-6	CONTAINMENT VACUUM PUMPS PEN. 93	2-CV-002	2	С-Н	C7.40	9/13/1999	NC-1 V-200A and 2-NC-1 V-200B
11715-SPM-106A-4-6	CONTAINMENT VACUUM PUMPS PEN. 93	2-CV-002	2	С-Н	C7.80	9/13/1999	
12050-SPM-074A-1-1 12050-SPM-074A-1-1	FEEDWATER FEEDWATER	2-FW-001 2-FW-001	2 2	C-H C-H	C7.20 C7.20	5/26/1998 10/9/1999	Outside Containment Inside Containment Only
40050 0014 0744 4 4							•
12050-SPM-074A-1-1	FEEDWATER	2-FW-001	2	C-H	C7.40	5/26/1998	Outside Containment
12050-SPM-074A-1-1	FEEDWATER	2-FW-001	2	C-H	C7.40	10/9/1999	Inside Containment Only
12050-SPM-074A-1-1	FEEDWATER	2-FW-001	2	C-H	C7.80	5/26/1998	Outside Containment
12050-SPM-074A-1-1	FEEDWATER	2-FW-001	2	C-H	C7.80	10/9/1999	Inside Containment Only

ZONE NO	DESCRIPTION	SPT NO	ASME CLASS	CATE- GORY	ITEM NO	COMPL DATE	REMARKS
12050-SPM-074A-1-2	FEEDWATER	2-FW-002	2	C-H	C7.20	10/9/1999	Inside Containment Only
12050-SPM-074A-1-2	FEEDWATER	2-FW-002	2	C-H	C7.40	10/9/1999	Inside Containment Only
12050-SPM-074A-1-2	FEEDWATER	2-FW-002		C-H	C7.80	10/9/1999	Inside Containment Only
12050-SPM-074A-1-3	FEEDWATER	2-FW-003	2	C-H	C7.20	10/9/1999	Inside Containment Only
12050-SPM-074A-1-3	FEEDWATER	2-FW-003	2 2 2	C-H	C7.40	10/9/1999	Inside Containment Only
12050-SPM-074A-1-3	FEEDWATER	2-FW-003	2	C-H	C7.40	12/8/1998	Outside Containment
12050-SPM-074A-1-3	FEEDWATER	2-FW-003	2 2	C-H	C7.80	12/8/1998	Outside Containment
12050-SPM-074A-1-3	FEEDWATER	2-FW-003	2	C-H	C7.80	10/9/1999	Inside Containment Only
12050-SPM-082B-2-1	RAD MONITOR SUPPLY PEN. 44	2-CA-003	2 2 2	C-H	C7.40	9/22/1999	moide Contaminent Only
12050-SPM-082B-2-1	RAD MONITOR SUPPLY PEN. 44	2-CA-003	2	C-H	C7.80	9/22/1999	
12050-SPM-082B-2-2	RAD MONITOR RETURN PEN. 43	2-CA-004	2	C-H	C7.40	9/22/1999	
12050-SPM-082B-2-2	RAD MONITOR RETURN PEN. 43	2-CA-004	2 2	C-H	C7.80	9/22/1999	
12050-SPM-082C-2-1	COMPRESSED AIR Spare PEN. 112	2-CA-005	2	C-H	C7.40	9/22/1999	
12050-SPM-082C-2-1	COMPRESSED AIR Spare PEN. 112	2-CA-005	2	C-H	C7.80	9/22/1999	
12050-SPM-082F-2-1	INSTRUMENT AIR PEN. 42	2-CA-002	2 2 2	C-H	C7.40	9/13/1999	
12050-SPM-082F-2-1	INSTRUMENT AIR PEN. 42	2-CA-002	2	C-H	C7.80	9/13/1999	
12050-SPM-089A-3-1	FEEDWATER	2-FW-001	2 2	Č-H	C7.40	9/12/1999	SG SAMPLE LINES
12050-SPM-089A-3-1	FEEDWATER	2-FW-001	2	C-H	C7.80	9/12/1999	SG SAMPLE LINES
12050-SPM-089A-3-2	FEEDWATER	2-FW-002	2 2 2	C-H	C7.40	9/12/1999	SG SAMPLE LINES
12050-SPM-089A-3-2	FEEDWATER	2-FW-002	2	C-H	C7.80	9/12/1999	SG SAMPLE LINES
12050-SPM-089A-3-3	FEEDWATER	2-FW-003	2	C-H	C7.40	9/12/1999	SG SAMPLE LINES
12050-SPM-089A-3-3	FEEDWATER	2-FW-003	2 2	C-H	C7.80	9/12/1999	SG SAMPLE LINES
12050-SPM-089A-3-4	SG SAMPLE TO PEN. 56	2-SS-001	2	C-H	C7.40	9/12/1999	SG SURFACE SAMPLE
12050-SPM-089A-3-4	SG SAMPLE TO PEN. 56	2-SS-001	2	C-H	C7.80	9/12/1999	SG SURFACE SAMPLE
12050-SPM-089B-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	9/12/1999	
12050-SPM-089B-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	PENETRATION 56A, B, C, 57C TO FIRST
					_ , , , ,		NORMALLY CLOSED VALVE
12050-SPM-089B-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	9/12/1999	
12050-SPM-089B-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	10/9/1999	PENETRATION 56A, B, C, 57C TO FIRST
							NORMALLY CLOSED VALVE
12050-SPM-089B-1-2	REACTOR COOLANT SYSTEM	2-RC-001	2	C-H	C7.40	9/22/1999	REACTOR COOLANT SAMPLE LINES,
							PENETRATION 57B.
12050-SPM-089B-1-2	REACTOR COOLANT SYSTEM	2-RC-001	2	C-H	C7.80	9/22/1999	REACTOR COOLANT SAMPLE LINES,
				-			PENETRATION 57B.
12050-SPM-089B-1-3	RHR PUMP DISCHARGE TO RHR HEAT	2-RH-001	2	C-H	C7.40	10/1/1999	From RHR to 2-SS-TV-203A
	EXCHANGERS						
12050-SPM-089B-1-3	RHR PUMP DISCHARGE TO RHR HEAT	2-RH-001	2	C-H	C7.80	10/1/1999	From RHR to 2-SS-TV-203A
	EXCHANGERS						
12050-SPM-090A-1-1	PDTT VENT PEN. 48	2-DA-003	2	C-H	C7.40	9/13/1999	PENETRATION 48.
12050-SPM-090A-1-1	PDTT VENT PEN. 48	2-DA-003	2	C-H	C7.80	9/13/1999	PENETRATION 48.
12050-SPM-090A-1-2	PRIMARY DRAINS TRANSFER PUMP	2-DA-002	<u>-</u>	C-H	C7.40	9/13/1999	PENETRATION 33.
	DISCHARGE PEN. 33 (PDTT TO GAS STRIPPER)		_			3. 12. 12.	

ZONE NO	DESCRIPTION	SPT NO	ASME CLASS	CATE- GORY	ITEM NO	COMPL DATE	REMARKS
12050-SPM-090A-1-2	PRIMARY DRAINS TRANSFER PUMP DISCHARGE PEN. 33 (PDTT TO GAS STRIPPER)	2-DA-002	2	С-Н	C7.80	9/13/1999	PENETRATION 33.
12050-SPM-090A-3-3	PRIMARY VENT POT (2-DA-TK-1) DISCHARGE PEN. 54	2-DA-004	2	C-H	C7.40	9/12/1999	PENETRATION 54
12050-SPM-090A-3-3	PRIMARY VENT POT (2-DA-TK-1) DISCHARGE PEN. 54	2-DA-004	2	C-H	C7.80	9/12/1999	PENETRATION 54
12050-SPM-090A-3-4	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	
12050-SPM-090A-3-4	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	10/9/1999	
12050-SPM-090A-3-5	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	
12050-SPM-090A-3-5	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	10/9/1999	
12050-SPM-091A-1-1	'B' LOW HEAD SAFETY INJECTION PUMP	2-SI-010		C-H	C7.40	5/26/1998	RWST TO LHSI & CHARGING
12050-SPM-091A-1-1	'B' LOW HEAD SAFETY INJECTION PUMP	2-SI-010	2 2	C-H	C7.80	5/26/1998	RWST TO LHSI & CHARGING
12050-SPM-091A-1-2	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.40	5/26/1998	
12050-SPM-091A-1-2	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.80	5/26/1998	
12050-SPM-091A-1-3	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.40	5/26/1998	
12050-SPM-091A-1-3	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.80	5/26/1998	
12050-SPM-091A-1-4	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.40	5/26/1998	
12050-SPM-091A-1-4	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.80	5/26/1998	
12050-SPM-091A-1-5	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.40	9/11/1998	
12050-SPM-091A-1-5	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.80	9/11/1998	
12050-SPM-091A-1-7	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.40	5/26/1998	
12050-SPM-091A-1-7	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.60	5/26/1998	
12050-SPM-091A-1-7	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.80	5/26/1998	
12050-SPM-091A-2-1	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.40	5/26/1998	Pipe Tunnel North Yard
12050-SPM-091A-2-1	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.40	8/7/1998	Safeguards Area
12050-SPM-091A-2-1	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.60	8/7/1998	Safeguards Area
12050-SPM-091A-2-1	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.80	5/26/1998	Pipe Tunnel North Yard
12050-SPM-091A-2-1	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.80	8/7/1998	Safeguards Area
12050-SPM-091A-2-2	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.40	5/26/1998	Pipe Tunnel North Yard
12050-SPM-091A-2-2	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.40	9/11/1998	Safeguards Area
12050-SPM-091A-2-2	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.60	9/11/1998	Safeguards Area
12050-SPM-091A-2-2	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.80	9/11/1998	Safeguards Area
12050-SPM-091A-2-2	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.80	5/26/1998	Pipe Tunnel North Yard
12050-SPM-091A-2-3	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.40	8/7/1998	Tipe Tullier Notes Tara
12050-SPM-091A-2-3	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.80	8/7/1998	
12050-SPM-091A-2-6	QUENCH SPRAY RECIRC TO RWST	2-QS-003	2	C-H	C7.40	8/7/1998	
12050-SPM-091A-2-6	QUENCH SPRAY RECIRC TO RWST	2-QS-003 2-QS-003	2	C-H	C7.80	8/7/1998	
12050-SPM-091B-1-1	2-RS-P-3B TO 2-RS-P-2B SUCTION	2-RS-006	2	C-H	C7.40	9/14/1999	From 2-RS-125 to 2-RS-MOV-201B
12050-SPM-091B-1-1	2-RS-P-3B TO 2-RS-P-2B SUCTION 2-RS-P-3B TO 2-RS-P-2B SUCTION	2-RS-006 2-RS-006	2	C-H	C7.40	9/14/1999	From 2-RS-125 to 2-RS-MOV-201B
12050-SPM-091B-1-1	2-RS-P-3B TO 2-RS-P-2B SUCTION 2-RS-P-3A TO 2-RS-P-2A SUCTION	2-RS-005	2	C-H	C7.40	9/14/1999	From 2-RS-125 to 2-RS-MOV-201B
12050-SPM-091B-1-2	2-RS-P-3A TO 2-RS-P-2A SUCTION 2-RS-P-3A TO 2-RS-P-2A SUCTION	2-RS-005 2-RS-005		C-H	C7.40 C7.80	9/14/1999	From 2-RS-127 to 2-RS-MOV-201A
			2				
12050-SPM-092A-1-1	LEAKAGE MONITORING SYSTEM	2-LM-001	2	C-H	C7.40	9/16/1999	PEN. 105C 2-TV-LM-201A,D
12050-SPM-092A-1-1	LEAKAGE MONITORING SYSTEM	2-LM-001	2	C-H	C7.40	9/16/1999	PEN. 105D 2-LM-TV-201B,C

ZONE NO	DESCRIPTION	SPT NO	ASME CLASS	CATE- GORY	ITEM NO	COMPL DATE	REMARKS
12050-SPM-092A-1-1	LEAKAGE MONITORING SYSTEM	2-LM-001	2	С-Н	C7.80	0/46/4000	DEN 4050 0 T/ IM 00/A D
12050-SPM-092A-1-1	LEAKAGE MONITORING SYSTEM	2-LM-001		C-H		9/16/1999	PEN. 105C 2-TV-LM-201A,D
12050-SPM-092A-1-2	LEAKAGE MONITORING SYSTEM		2		C7.80	9/16/1999	PEN. 105D 2-LM-TV-201B,C
		2-LM-001	2	C-H	C7.40	9/16/1999	PEN. 57A 2-LM-TV-200G, H
12050-SPM-092A-1-2 12050-SPM-092A-1-2	LEAKAGE MONITORING SYSTEM	2-LM-001	2	C-H	C7.40	9/13/1999	PEN. 55D 2-LM-TV-200E, F
12050-SPM-092A-1-2	LEAKAGE MONITORING SYSTEM	2-LM-001	2	C-H	C7.40	9/16/1999	PEN. 105A 2-LM-TV-200C, D
	LEAKAGE MONITORING SYSTEM	2-LM-001	2	C-H	C7.40	9/16/1999	PEN. 97B 2-LM-TV-200A, B
12050-SPM-092A-1-2	LEAKAGE MONITORING SYSTEM	2-LM-001	2	C-H	C7.80	9/13/1999	PEN. 55D 2-LM-TV-200E, F
12050-SPM-092A-1-2	LEAKAGE MONITORING SYSTEM	2-LM-001	2	C-H	C7.80	9/16/1999	PEN. 105A 2-LM-TV-200C, D
12050-SPM-092A-1-2	LEAKAGE MONITORING SYSTEM	2-LM-001	2	C-H	C7.80	9/16/1999	PEN. 57A 2-LM-TV-200G, H
12050-SPM-092A-1-2	LEAKAGE MONITORING SYSTEM	2-LM-001	2	C-H	C7.80	9/16/1999	PEN. 97B 2-LM-TV-200A, B
12050-SPM-092A-2-2	CONTAINMENT VACUUM PUMPS PEN. 93	2-CV-002	2	C-H	C7.40	9/13/1999	
12050-SPM-092A-2-2	CONTAINMENT VACUUM PUMPS PEN. 93	2-CV-002	2	C-H	C7.80	9/13/1999	
12050-SPM-093A-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	В-Р	B15.11	10/9/1999	
12050-SPM-093A-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.31	10/9/1999	
12050-SPM-093A-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	9/12/1999	2-RC-11 and 2-RC-HCV-2557A
12050-SPM-093A-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	
12050-SPM-093A-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.61	10/9/1999	
12050-SPM-093A-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	10/9/1999	
12050-SPM-093A-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	9/12/1999	2-RC-11 and 2-RC-HCV-2557A
12050-SPM-093A-1-2	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	
12050-SPM-093A-1-2	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	10/9/1999	
12050-SPM-093A-1-3	LOOP FILL HEADER	2-CH-005	1	B-P	B15.50	10/9/1999	Not in service but required to examine up to the second normally closed valve.
12050-SPM-093A-1-3	LOOP FILL HEADER	2-CH-005	1.	B-P	B15.70	10/9/1999	Not in service but required to examine up to the second normally closed valve.
12050-SPM-093A-2-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.11	10/9/1999	
12050-SPM-093A-2-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.31	10/9/1999	
12050-SPM-093A-2-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	
12050-SPM-093A-2-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	9/12/1999	2-RC-50 and 2-RC-HCV-2557B
12050-SPM-093A-2-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.61	10/9/1999	11.0 00 dilu 21.0 110 1 200. D
12050-SPM-093A-2-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	10/9/1999	
12050-SPM-093A-2-1	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.71	9/12/1999	2-RC-50 and 2-RC-HCV-2557B
12050-SPM-093A-2-2	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.51	10/9/1999	2 1 10 00 0 11 11 11 11 11 11 11 11 11 11
12050-SPM-093A-2-2	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.71	10/9/1999	
12050-SPM-093A-2-3	LOOP FILL HEADER	2-CH-005	i	B-P	B15.50	10/9/1999	Not in service but required to examine up to the
12050-SPM-093A-2-3	LOOP FILL HEADER	2-CH-005	•				second normally closed valve.
			1	B-P	B15.70	10/9/1999	Not in service but required to examine up to the second normally closed valve.
12050-SPM-093A-3-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.11	10/9/1999	
12050-SPM-093A-3-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.31	10/9/1999	
12050-SPM-093A-3-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	9/12/1999	2-RC-82 and 2-RC-HCV-2557C
12050-SPM-093A-3-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	
12050-SPM-093A-3-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.61	10/9/1999	
12050-SPM-093A-3-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	10/9/1999	

Attachment 1 Page 15 of 30 Serial No.: 99-601 Docket No.: 50-339

ZONE NO	DESCRIPTION	SPT NO	ASME CLASS	CATE- GORY	ITEM NO	COMPL DATE	REMARKS
12050-SPM-093A-3-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	9/12/1999	2-RC-82 and 2-RC-HCV-2557C
12050-SPM-093A-3-2	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.50	10/9/1999	
12050-SPM-093A-3-2	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.70	10/9/1999	
12050-SPM-093A-3-3	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.50	10/9/1999	Not in service but required to examine up to the second normally closed valve.
12050-SPM-093A-3-3	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.70	10/9/1999	Not in service but required to examine up to the second normally closed valve.
12050-SPM-093A-3-4	LOOP FILL HEADER	2-CH-005	1	В-Р	B15.50	10/9/1999	Not in service but required to examine up to the second normally closed valve.
12050-SPM-093A-3-4	LOOP FILL HEADER	2-CH-005	1	B-P	B15.70	10/9/1999	Not in service but required to examine up to the second normally closed valve.
12050-SPM-093B-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.21	10/9/1999	•
12050-SPM-093B-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	
12050-SPM-093B-1-1	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.71	10/9/1999	
12050-SPM-093B-1-2	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.50	10/9/1999	Not in service but required to examine up to the second normally closed valve.
12050-SPM-093B-1-2	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.70	10/9/1999	Not in service but required to examine up to the second normally closed valve.
12050-SPM-093B-1-3	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.50	10/9/1999	Not in service but required to examine up to the second normally closed valve.
12050-SPM-093B-1-3	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.70	10/9/1999	Not in service but required to examine up to the second normally closed valve.
12050-SPM-093B-1-4	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.50	10/9/1999	Not in service but required to examine up to the second normally closed valve.
12050-SPM-093B-1-4	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.70	10/9/1999	Not in service but required to examine up to the second normally closed valve.
12050-SPM-094A-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	
12050-SPM-094A-1-1	RHR PUMP DISCHARGE TO RHR HEAT EXCHANGERS	2-RH-001	1	B-P	B15.51	9/14/1999	Examine between 2700 and 2701 when RHR is inservice.
12050-SPM-094A-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	10/9/1999	
12050-SPM-094A-1-1	RHR PUMP DISCHARGE TO RHR HEAT EXCHANGERS	2-RH-001	1	B-P	B15.71	9/14/1999	Examine between 2700 and 2701 when RHR is inservice.
12050-SPM-094A-1-2	RHR PUMP DISCHARGE TO RHR HEAT EXCHANGERS	2-RH-001	2	C-H	C7.20	9/14/1999	
12050-SPM-094A-1-2	RHR PUMP DISCHARGE TO RHR HEAT EXCHANGERS	2-RH-001	2	С-Н	C7.40	9/14/1999	
12050-SPM-094A-1-2	RHR PUMP DISCHARGE TO RHR HEAT EXCHANGERS	2-RH-001	2	C-H	C7.60	9/14/1999	
12050-SPM-094A-1-2	RHR PUMP DISCHARGE TO RHR HEAT EXCHANGERS	2-RH-001	2	C-H	C7.80	9/14/1999	•
12050-SPM-094A-1-3	RHR PUMP DISCHARGE TO RHR HEAT EXCHANGERS	2-RH-001	2	C-H	C7.40	9/14/1999	
12050-SPM-094A-1-3	RHR PUMP DISCHARGE TO RHR HEAT EXCHANGERS	2-RH-001	2	C-H	C7.80	9/14/1999	

ZONE NO	DESCRIPTION	SPT NO	ASME CLASS	CATE- GORY	ITEM NO	COMPL DATE	REMARKS
12050-SPM-094A-1-4	RHR PUMP DISCHARGE TO RHR HEAT EXCHANGERS	2-RH-001	2	C-H	C7.40	9/14/1999	
12050-SPM-094A-1-4	RHR PUMP DISCHARGE TO RHR HEAT EXCHANGERS	2-RH-001	2	С-Н	C7.80	9/14/1999	
12050-SPM-094A-2-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	
12050-SPM-094A-2-1	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.71	10/9/1999	
12050-SPM-094A-2-2	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.51	10/9/1999	
12050-SPM-094A-2-2	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.71	10/9/1999	
12050-SPM-094A-2-5	RHR RETURN TO RWST PENETRATION 24	2-RH-002	ż	C-H	C7.40	9/21/1999	Penetration 24, RHR to RWST, examine when
12000 01 111 00 47 (2 0	WINTE TO THE TO THE TO THE TOTAL PART OF 24	2-1411-002	2	C-11	C7.40	3/2 1/1333	cavity is drained down thru this pen.
12050-SPM-094A-2-5	RHR RETURN TO RWST PENETRATION 24	2-RH-002	2	С-Н	C7.80	9/21/1999	Penetration 24, RHR to RWST, examine when cavity is drained down thru this pen.
12050-SPM-095A-1-1	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.20	10/9/1999	·
12050-SPM-095A-1-1	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	10/9/1999	
12050-SPM-095A-1-1	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	10/9/1999	
12050-SPM-095A-2-1	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.20	10/9/1999	
12050-SPM-095A-2-1	NORMAL CHARGING HEADER -	2-CH-007	2	C-H	C7.40	10/9/1999	
12050-SPM-095A-2-1	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	10/9/1999	
12050-SPM-095A-2-3	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	10/9/1999	
12050-SPM-095A-2-3	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	10/9/1999	
12050-SPM-095A-2-4	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.60	10/9/1999	
12050-SPM-095A-2-4	NORMAL CHARGING HEADER	2-CH-007 2-CH-007	2	C-H	C7.40 C7.80	10/9/1999	
12050-SPM-095A-2-5	NORMAL CHARGING HEADER	2-CH-007 2-CH-007		C-H	C7.60 C7.40		
12050-SPM-095A-2-5			2			10/9/1999	
12050-SPM-095B-1-1	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	10/9/1999	
	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	10/9/1999	
12050-SPM-095B-1-1	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	10/9/1999	
12050-SPM-095B-1-2	NORMAL CHARGING HEADER	2-CH-007	2	Ç-H	C7.20	8/19/1998	
12050-SPM-095B-1-2	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	8/19/1998	
12050-SPM-095B-1-2	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	8/19/1998	
12050-SPM-095B-1-7	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.20	8/19/1998	
12050-SPM-095B-1-7	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	8/19/1998	
12050-SPM-095B-1-7	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	8/19/1998	
12050-SPM-095B-1-8	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	8/19/1998	
12050-SPM-095B-1-8	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	8/19/1998	
12050-SPM-095B-2-1	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	8/19/1998	
12050-SPM-095B-2-1	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	8/19/1998	
12050-SPM-095B-2-10	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	8/19/1998	
12050-SPM-095B-2-10	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	8/19/1998	
12050-SPM-095B-2-4	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	8/19/1998	
12050-SPM-095B-2-4	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	8/19/1998	
12050-SPM-095B-2-4	NORMAL CHARGING HEADER	2-CH-007 2-CH-007	2	C-H	C7.80	8/19/1998	
12050-SPM-095B-2-5	NORMAL CHARGING HEADER	2-CH-007 2-CH-007	2	C-H	C7.60 C7.40	8/19/1998	
12050-SPM-095B-2-5			2				
12050-SPM-095B-2-6	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	8/19/1998	
12000-01M-080D-7-0	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	8/19/1998	•

ZONE NO	DESCRIPTION	SPT NO	ASME CLASS	CATE- GORY	ITEM NO	COMPL DATE	REMARKS
12050-SPM-095B-2-6	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	8/19/1998	
12050-SPM-095B-2-8	'B' LOW HEAD SAFETY INJECTION PUMP	2-SI-010	2	C-H	C7.40	8/19/1998	RWST TO CHARGING
12050-SPM-095B-2-8	'B' LOW HEAD SAFETY INJECTION PUMP	2-SI-010	2	C-H	C7.80	8/19/1998	RWST TO CHARGING
12050-SPM-095B-2-9	CHARGING CROSS-TIR UNIT 2 TO UNIT 1.	2-CH-008	2	C-H	C7.40	12/18/1998	UNIT 1 CHARGING X-TIE
12050-SPM-095B-2-9	CHARGING CROSS-TIR UNIT 2 TO UNIT 1.	2-CH-008	2	C-H	C7.40	8/19/1998	UNIT 1 CHARGING X-TIE
12050-SPM-095B-2-9	CHARGING CROSS-TIR UNIT 2 TO UNIT 1.	2-CH-008	2	C-H	C7.80	12/18/1998	UNIT 1 CHARGING X-TIE
12050-SPM-095B-2-9	CHARGING CROSS-TIR UNIT 2 TO UNIT 1.	2-CH-008	2	C-H	C7.80	8/19/1998	UNIT 1 CHARGING X-TIE
12050-SPM-095C-1-1	LETDOWN	2-CH-002	1	B-P	B15.41	10/9/1999	
12050-SPM-095C-1-1	LETDOWN	2-CH-002	1	B-P	B15.51	10/9/1999	
12050-SPM-095C-1-1	LETDOWN	2-CH-002	1	B-P	B15.71	10/9/1999	
12050-SPM-095C-1-2	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.50	10/9/1999	
12050-SPM-095C-1-2	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	9/12/1999	
12050-SPM-095C-1-2	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.70	10/9/1999	
12050-SPM-095C-1-2	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	9/12/1999	
12050-SPM-095C-1-6	NORMAL CHARGING HEADER	2-CH-003	1	B-P	B15.51	10/9/1999	
12050-SPM-095C-1-6	NORMAL CHARGING HEADER	2-CH-003	1	B-P	B15.71	10/9/1999	
12050-SPM-095C-1-8	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	7/14/1999	
12050-SPM-095C-1-8	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	7/14/1999	
12050-SPM-095C-2-1	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.20	10/9/1999	
12050-SPM-095C-2-1	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	10/9/1999	
12050-SPM-095C-2-1	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	10/9/1999	
12050-SPM-095C-2-3	SEAL INJECTION TO RCP'S	2-CH-006	1	B-P	B15.51	10/9/1999	
12050-SPM-095C-2-3	SEAL INJECTION TO RCP'S	2-CH-006	1	B-P	B15.71	10/9/1999	
12050-SPM-095C-2-4	SEAL INJECTION TO RCP'S	2-CH-006	1	B-P	B15.51	10/9/1999	
12050-SPM-095C-2-4	SEAL INJECTION TO RCP'S	2-CH-006	1	B-P	B15.71	10/9/1999	
12050-SPM-095C-2-6	EXCESS LETDOWN HEAT EXCHANGER	2-CH-004	1	B-P	B15.51	10/9/1999	
12050-SPM-095C-2-6	EXCESS LETDOWN HEAT EXCHANGER	2-CH-004	1	B-P	B15.61	10/9/1999	
12050-SPM-096A-1-1	RWST TO LOW HEAD SAFETY INJECTION	2-SI-009	2	C-H	C7.40	8/4/1998	Discharge side
12050-SPM-096A-1-1	RWST TO LOW HEAD SAFETY INJECTION	2-SI-009	2	C-H	C7.40	5/26/1998	Suction side of pump
12050-SPM-096A-1-1	RWST TO LOW HEAD SAFETY INJECTION	2-SI-009	2	C-H	C7.60	8/4/1998	Discharge side
12050-SPM-096A-1-1	RWST TO LOW HEAD SAFETY INJECTION	2-SI-009	2	C-H	C7.60	5/26/1998	Suction side of pump
12050-SPM-096A-1-1	RWST TO LOW HEAD SAFETY INJECTION	2-SI-009	2	C-H	C7.80	5/26/1998	Suction side of pump
12050-SPM-096A-1-1	RWST TO LOW HEAD SAFETY INJECTION	2-SI-009	2	C-H	C7.80	8/4/1998	Discharge side
12050-SPM-096A-1-2	'B' LOW HEAD SAFETY INJECTION PUMP	2-SI-010	2	C-H	C7.40	5/26/1998	Suction side of pump
12050-SPM-096A-1-2	B' LOW HEAD SAFETY INJECTION PUMP	2-SI-010	2	C-H	C7.60	5/26/1998	Suction side of pump
12050-SPM-096A-1-2	'B' LOW HEAD SAFETY INJECTION PUMP	2-SI-010	2	C-H	C7.80	5/26/1998	Suction side of pump
12050-SPM-096A-1-3	B' LOW HEAD SAFETY INJECTION PUMP	2-SI-010	2	C-H	C7.40	5/26/1998	Pipe Tunnel, QSPH, and Aux Building
12050-SPM-096A-1-3	'B' LOW HEAD SAFETY INJECTION PUMP	2-SI-010	2	C-H	C7.80	5/26/1998	Pipe Tunnel, QSPH, and Aux Building
12050-SPM-096A-1-5	ACCUMULATOR MAKEUP LINE PEN. 20	2-SI-007	2	C-H	C7.40	9/22/1999	
12050-SPM-096A-1-5	ACCUMULATOR MAKEUP LINE PEN. 20	2-SI-007	2	C-H	C7.80	9/22/1999	
12050-SPM-096A-2-1	RWST TO LOW HEAD SAFETY INJECTION	2-\$1-009	2	C-H	C7.40	8/4/1998	
12050-SPM-096A-2-1	RWST TO LOW HEAD SAFETY INJECTION	2-SI-009	2	C-H	C7.80	8/4/1998	
12050-SPM-096A-2-4	RWST TO LOW HEAD SAFETY INJECTION	2-SI-009	2	C-H	C7.40	8/4/1998	LHSI TO CHARGING
12050-SPM-096A-2-4	RWST TO LOW HEAD SAFETY INJECTION	2-SI-009	2	C-H	C7.80	8/4/1998	LHSI TO CHARGING

ZONE NO	DESCRIPTION	SPT NO	ASME CLASS	CATE- GORY	ITEM NO	COMPL. DATE	REMARKS
12050-SPM-096A-2-6	LOW HEAD SAFETY INJECTION TO HL PEN.	2-SI-015	2	С-Н	C7.40	9/28/1999	
12050-SPM-096A-2-6	LOW HEAD SAFETY INJECTION TO HL PEN. 60	2-SI-015	2	C-H	C7.80	9/28/1999	
12050-SPM-096A-2-7	LHSI TO HL, PEN 61	2-SI-016	2	C-H	C7.40	9/28/1999	
12050-SPM-096A-2-7	LHSI TO HL, PEN 61	2-SI-016	2	C-H	C7.80	9/28/1999	
12050-SPM-096A-2-8	LOW HEAD SAFETY INJECTION TO CL - PENETRATION 62	2-SI-017	2	C-H	C7.40	9/28/1999	
12050-SPM-096A-2-8	LOW HEAD SAFETY INJECTION TO CL - PENETRATION 62	2-SI-017	2	C-H	C7.80	9/28/1999	
12050-SPM-096A-2-9	ACCUMULATOR TEST LINE - PENETRATION 106	2-SI-008	2	C-H	C7.40	9/12/1999	PENETRATION 106
12050-SPM-096A-2-9	ACCUMULATOR TEST LINE - PENETRATION 106	2-SI-008	2	C-H	C7.80	9/12/1999	PENETRATION 106
12050-SPM-096A-3-3	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	7/14/1999	BORIC ACID TRANSFER PUMPS TO BIT TANK
12050-SPM-096A-3-3	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	7/14/1999	BORIC ACID TRANSFER PUMPS TO BIT TANK
12050-SPM-096A-3-4	NORMAL CHARGING HEADER	2-CH-007	2 2	C-H	C7.40	10/6/1999	CHARGING PUMP DISCHARGE TO SI
12050-SPM-096A-3-4	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.80	10/6/1999	CHARGING PUMP DISCHARGE TO SI
12050-SPM-096A-3-5	NORMAL CHARGING HEADER	2-CH-007	2	C-H	C7.40	7/14/1999	SI TANK FLUSH
12050-SPM-096A-3-5	NORMAL CHARGING HEADER	2-CH-007	2 2	C-H	C7.80	7/14/1999	NORMAL CHARGING
12050-SPM-096A-3-6	LOOP FILL HEADER	2-CH-005	2	C-H	C7.40	7/14/1999	SI TANK FLUSH
12050-SPM-096A-3-6	LOOP FILL HEADER	2-CH-005	2	C-H	C7.80	7/14/1999	SI TANK FLUSH
12050-SPM-096B-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	
12050-SPM-096B-1-1	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.71	10/9/1999	
12050-SPM-096B-1-3	REACTOR COOLANT SYSTEM	2-RC-001	1.	B-P	B15.51	9/12/1999	From 2-SI-152 to 2-SI-HCV-2850B
12050-SPM-096B-1-3	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.51	10/9/1999	1101112 01 102 10 2 01 110 1 2000
12050-SPM-096B-1-3	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	9/12/1999	From 2-SI-152 to 2-SI-HCV-2850B
12050-SPM-096B-1-3	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.71	10/9/1999	. 10 2 01 102 10 2 01 110 1 20005
12050-SPM-096B-1-4	ACCUMULATOR N2 VENT PEN, 50	2-SI-004	2	Č-H	C7.40	9/15/1999	PENETRATION 50
12050-SPM-096B-1-4	ACCUMULATOR N2 VENT PEN, 50	2-SI-004	2	C-H	C7.80	9/15/1999	PENETRATION 50
12050-SPM-096B-1-5	N2 SUPPLY TO ACCUMULATOR PEN. 53	2-SI-005	2	C-H	C7.40	9/15/1999	PENETRATION 53
12050-SPM-096B-1-5	N2 SUPPLY TO ACCUMULATOR PEN. 53	2-SI-005	2	C-H	C7.80	9/15/1999	PENETRATION 53
12050-SPM-096B-1-6	ACCUMULATOR MAKEUP LINE PEN. 20	2-SI-007	2	C-H	C7.40	9/22/1999	PENETRATION 20
12050-SPM-096B-1-6	ACCUMULATOR MAKEUP LINE PEN. 20	2-SI-007	2	C-H	C7.80	9/22/1999	PENETRATION 20
12050-SPM-096B-1-7	ACCUMULATOR TEST LINE - PENETRATION 106		2	C-H	C7.40	9/12/1999	PENETRATION 106
12050-SPM-096B-1-7	ACCUMULATOR TEST LINE - PENETRATION 106	2-SI-008	2	C-H	C7.80	9/12/1999	PENETRATION 106
12050-SPM-096B-2-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	
12050-SPM-096B-2-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	10/9/1999	
12050-SPM-096B-2-3	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.51	9/12/1999	From 2-SI-169 to 2-SI-HCV-2850D
12050-SPM-096B-2-3	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.51	10/9/1999	
12050-SPM-096B-2-3	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.71	9/12/1999	From 2-SI-169 to 2-SI-HCV-2850D
12050-SPM-096B-2-3	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.71	10/9/1999	

ZONE NO	DESCRIPTION	SPT NO	ASME CLASS	CATE- GORY	ITEM NO	COMPL DATE	REMARKS
12050-SPM-096B-3-1	REACTOR COOLANT SYSTEM	2-RC-001	1	в-Р	B15.51	10/9/1999	
12050-SPM-096B-3-1	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.71	10/9/1999	
12050-SPM-096B-3-3	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.51	9/12/1999	From 2-SI-186 to 2-SI-HCV-2850F
12050-SPM-096B-3-3	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.51	10/9/1999	1101112 01 100 to 2 01 110 1 20001
12050-SPM-096B-3-3	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.71	9/12/1999	From 2-SI-186 to 2-SI-HCV-2850F
12050-SPM-096B-3-3	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.71	10/9/1999	1102 01 100 to 2 01 1.04 20001
12050-SPM-096B-4-1	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.11	10/9/1999	
12050-SPM-096B-4-1	REACTOR COOLANT SYSTEM	2-RC-001	i	B-P	B15.51	10/9/1999	
12050-SPM-096B-4-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	10/9/1999	
12050-SPM-096B-4-5	CHARGING TO CL, PEN. 11	2-SI-011	i	B-P	B15.51	10/9/1999	
12050-SPM-096B-4-5	CHARGING TO CL, PEN. 11	2-SI-011	1	B-P	B15.71	10/9/1999	
12050-SPM-096B-4-7	HHSI, CHARGING TO HL, PEN. 114	2-SI-014	1	B-P	B15.51	10/9/1999	
12050-SPM-096B-4-7	HHSI, CHARGING TO HL, PEN. 114	2-SI-014	1	B-P	B15.71	10/9/1999	
12050-SPM-102A-2-1	AUXILIARY FEED PUMPS	2-FW-001	2	C-H	C7.40	10/9/1999	
12050-SPM-102A-2-1	AUXILIARY FEED PUMPS	2-FW-001	2	C-H	C7.80	10/9/1999	
12050-SPM-102A-2-2	AUXILIARY FEED PUMPS	2-FW-002	2	C-H	C7.40	10/9/1999	
12050-SPM-102A-2-2	AUXILIARY FEED PUMPS	2-FW-002	2	C-H	C7.80	10/9/1999	
12050-SPM-102A-2-3	AUXILIARY FEED PUMPS	2-FW-003	2	C-H	C7.40	10/9/1999	
12050-SPM-102A-2-3	AUXILIARY FEED PUMPS	2-FW-003	2	C-H	C7.80	10/9/1999	
12050-SPM-102A-2-4	AUXILIARY FEED PUMPS	2-FW-001	2	C-H	C7.40	10/9/1999	
12050-SPM-102A-2-4	AUXILIARY FEED PUMPS	2-FW-001	2	C-H	C7.80	10/9/1999	
12050-SPM-102A-2-5	AUXILIARY FEED PUMPS	2-FW-002	2 2	C-H	C7.40	10/9/1999	
12050-SPM-102A-2-5	AUXILIARY FEED PUMPS	2-FW-002	2	C-H	C7.80	10/9/1999	
12050-SPM-102A-2-6	AUXILIARY FEED PUMPS	2-FW-003	2	C-H	C7.40	10/9/1999	
12050-SPM-102A-2-6	AUXILIARY FEED PUMPS	2-FW-003	2 2	C-H	C7.80	10/9/1999	
12050-SPM-102B-1-1	AUXILIARY FEED PUMPS	2-FW-001	2	C-H	C7.40	10/9/1999	
12050-SPM-102B-1-1	AUXILIARY FEED PUMPS	2-FW-001	2	C-H	C7.80	10/9/1999	
12050-SPM-102B-1-2	AUXILIARY FEED PUMPS	2-FW-002	2	C-H	C7.40	10/9/1999	
12050-SPM-102B-1-2	AUXILIARY FEED PUMPS	2-FW-002	2	C-H	C7.80	10/9/1999	
12050-SPM-102B-1-3	AUXILIARY FEED PUMPS	2-FW-003	2 2	C-H	C7.40	10/9/1999	
12050-SPM-102B-1-3	AUXILIARY FEED PUMPS	2-FW-003	2	C-H	C7.80	10/9/1999	
12050-SPM-102B-1-4	2-RC-E-1A, SG WET LAY-UP PEN. 32	2-WT-001	2 2 2 2 2	C-H	C7.40	9/22/1999	PENETRATION 32
12050-SPM-102B-1-4	2-RC-E-1A, SG WET LAY-UP PEN. 32	2-WT-001	2	C-H	C7.80	9/22/1999	PENETRATION 32
12050-SPM-102B-1-5	2-RC-E-1BA, SG WET LAY-UP PEN. 100	2-WT-002	2	C-H	C7.40	9/22/1999	PENETRATION 100
12050-SPM-102B-1-5	2-RC-E-1BA, SG WET LAY-UP PEN. 100	2-WT-002	2	C-H	C7.80	9/22/1999	PENETRATION 100
12050-SPM-102B-1-6	2-RC-E-1BA, SG WET LAY-UP PEN. 108	2-WT-003		C-H	C7.40	9/22/1999	PENETRATION 108
12050-SPM-102B-1-6	2-RC-E-1BA, SG WET LAY-UP PEN. 108	2-WT-003	2	C-H	C7.80	9/22/1999	PENETRATION 108
13075-SPM-093D-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.11	10/9/1999	PENETRATION 55.
13075-SPM-093D-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	PENETRATION 55.
13075-SPM-093D-1-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	10/9/1999	PENETRATION 55.
13075-SPM-093D-2-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.51	10/9/1999	PENETRATION 117.
13075-SPM-093D-2-1	REACTOR COOLANT SYSTEM	2-RC-001	1	B-P	B15.71	10/9/1999	PENETRATION 117.

Corrections to previous NIS-1 Reports

A review of Period 1 and 2 system pressure test records and NIS-1 reports during that period found that the following test were not reported as completed.

ZONE NO	SPT NO	ASME CLASS	CATE- GORY	ITEM NO	COMPL DATE
11715-SPB-006A-2-1	2-HV-201	2	C-H	C7.30	4/18/1992
11715-SPB-006A-2-1	2-HV-201	2	C-H	C7.70	4/18/1992
11715-SPB-006A-2-2	2-HV-202	2	C-H	C7.30	4/18/1992
11715-SPB-006A-2-2	2-HV-202	2	C-H	C7.70	4/18/1992
11715-SPM-088A-3-1	2-RP-201	2	C-H	C7.30	3/17/1992
11715-SPM-088A-3-1	2-RP-201	2	C-H	C7.70	3/17/1992
11715-SPM-088A-3-2	2-RP-202	2	C-H	C7.30	3/17/1992
11715-SPM-088A-3-2	2-RP-202	2	C-H	C7.70	3/17/1992
12050-SPB-104A-1-1	2-FP-201	2	C-H	C7.30	3/08/1992
12050-SPB-104A-1-1	2-FP-201	2	C-H	C7.70	3/08/1992
12050-SPM-074A-1-1	2-FW-204	2	C-H	C7.10	12/20/1993
12050-SPM-074A-1-1	2-FW-204	2	C-H	C7.30	12/20/1993
12050-SPM-074A-1-1	2-FW-204	2	C-H	C7.70	12/20/1993
12050-SPM-074A-1-2	2-FW-202	2	C-H	C7.10	12/02/1993
12050-SPM-074A-1-2	2-FW-202	2	C-H	C7.30	12/02/1993
12050-SPM-074A-1-2	2-FW-202	2	C-H	C7.70	12/02/1993
12050-SPM-074A-1-3	2-FW-203	2	C-H	C7.10	12/20/1993
12050-SPM-074A-1-3	2-FW-203	2	C-H	C7.10	12/20/1993
12050-SPM-074A-1-3	2-FW-203	2	C-H	C7.70	12/20/1993
12050-SPM-082C-2-1	2-CA-205	2	C-H	C7.70	3/18/1992
12050-SPM-082C-2-1	2-CA-205	2	C-H	C7.70	3/18/1992
12050-SPM-082C-2-1	2-CA-005	2	C-H	C7.70	3/28/1995
12050-SPM-082C-2-1	2-CA-005	2	C-H	C7.40	3/28/1995
12050-SPM-082F-2-1	2-CA-202	2	C-H		
12050-SPM-082F-2-1	2-CA-202	2	C-H	C7.30	4/14/1992
12050-SPM-089A-3-1	2-FW-201	2	C-H	C7.70	4/14/1992
12050-SPM-089A-3-1	2-FW-201	2		C7.30	2/26/1992
12050-SPM-089A-3-2	2-FW-201	2	C-H	C7.70	2/26/1992
12050-SPM-089A-3-2	2-FW-202 2-FW-202	2	C-H	C7.30	2/26/1992
12050-SPM-089A-3-3	2-FW-202 2-FW-203	2	C-H	C7.70	2/26/1992
12050-SPM-089A-3-3	2-FW-203	2	C-H	C7.30	2/26/1992
12050-SPM-089B-1-2	2-RC-201	2	C-H C-H	C7.70	2/26/1992
12050-SPM-089B-1-2	2-RC-201 2-RC-201	2	C-H	C7.30	3/17/1992
12050-SPM-090A-3-3	2-NO-201 2-DA-204	2		C7.70	3/17/1992
12050-SPM-090A-3-3	2-DA-204 2-DA-204	2	C-H C-H	C7.30	3/16/1992
12050-SPM-091A-3-2	2-RS-202	2	C-H	C7.70	3/16/1992
12050-SPM-091A-3-2	2-RS-202	2		C7.30	9/24/1993
12050-SPM-091A-3-2	2-RS-202 2-RS-202	2	C-H C-H	C7.50	9/24/1993
12050-SPM-091A-4-2	2-RS-202 2-RS-003	2 -		C7.70	9/24/1993
12050-SPM-091A-4-2	2-RS-003 2-RS-003	2	C-H	C7.30	9/12/1996
12050-SPM-092A-2-3	2-R3-003 2-CV-203	2	C-H	C7.70	9/12/1996
12050-SPM-092A-2-3	2-CV-203 2-CV-203	2	C-H	C7.30	3/12/1992
12050-SPM-093A-1-3	2-CV-203 2-CH-205		C-H	C7.70	3/12/1992
12050-SPM-093A-1-3	2-CH-205 2-CH-205	1	B-P	B15.50	10/26/1993
12050-SPM-093A-1-3	2-CH-205 2-CH-205	1	B-P	B15.50	4/21/1992
12050-SPM-093A-1-3	2-CH-205	•	B-P	B15.70	10/26/1993
12050-SPM-093A-2-3	2-CH-205 2-CH-205	1	B-P	B15.70	4/21/1992
12050-SPM-093A-2-3	2-CH-205	1	B-P	B15.50	10/26/1993
12050-SPM-093A-2-3	2-CH-205 2-CH-205	1	B-P	B15.50	4/21/1992
12050-SPM-093A-2-3		1	B-P	B15.70	10/26/1993
12050-SPM-093A-3-4	2-CH-205	1	B-P	B15.70	4/21/1992
12050-SPM-093A-3-4	2-CH-205	1	B-P	B15.50	10/26/1993
12050-SPM-093A-3-4	2-CH-205	1	B-P	B15.50	4/21/1992
12050-SPM-093A-3-4	2-CH-205	1	B-P	B15.70	4/21/1992
12050-SPM-093A-3-4 12050-SPM-094A-2-1	2-CH-205	1	B-P	B15.70	10/26/1993
12050-SPM-094A-2-1 12050-SPM-094A-2-1	2-SI-202	1	B-P	B15.50	4/21/1992
	2-SI-202	1	B-P	B15.70	4/21/1992
12050-SPM-094A-2-1 12050-SPM-094A-2-1	2-SI-202	1	B-P	B15.50	10/26/1993
12000-35141-0344-2-1	2-SI-202	1	B-P	B15.70	10/26/1993

12050-SPM-094A-2-2	2-SI-203	1	B-P	B15.50	10/26/1993
12050-SPM-094A-2-2	2-SI-203	1	B-P	B15.50	4/21/1992
12050-SPM-094A-2-2	2-SI-203	1	B-P	B15.70	4/21/1992
12050-SPM-094A-2-2	2-SI-203	1	B-P	B15.70	10/26/1993
12050-SPM-095C-1-1	2-CH-202	1	B-P	B15.40	4/21/1992
12050-SPM-095C-1-1	2-CH-202	1	B-P	B15.40	10/26/1993
12050-SPM-095C-1-1	2-CH-202	1	B-P	B15.50	4/21/1992
12050-SPM-095C-1-1	2-CH-202	1	B-P	B15.50	10/26/1993
12050-SPM-095C-1-1	2-CH-202	1	B-P	B15.70	4/21/1992
12050-SPM-095C-1-1	2-CH-202	1	B-P	B15.70	10/26/1993
12050-SPM-095C-1-4	2-CH-205	1	B-P	B15.50	4/21/1992
12050-SPM-095C-1-4	2-CH-205	1	B-P	B15.50	10/26/1993
12050-SPM-095C-1-4	2-CH-205	1	B-P	B15.70	10/26/1993
12050-SPM-095C-1-4	2-CH-205	1	B-P	B15.70	4/21/1992
12050-SPM-095C-1-6	2-CH-203	1	B-P	B15.50	4/21/1992
12050-SPM-095C-1-6	2-CH-203	1	B-P	B15.50	10/26/1993
12050-SPM-095C-2-3	2-CH-206	1	B-P	B15.50	10/26/1993
12050-SPM-095C-2-3	2-CH-206	1	B-P	B15.50	4/21/1992
12050-SPM-095C-2-3	2-CH-206	1	B-P	B15.70	4/21/1992
12050-SPM-095C-2-3	2-CH-206	1	B-P	B15.70	10/26/1993
12050-SPM-095C-2-4	2-CH-206	1	B-P	B15.50	10/26/1993
12050-SPM-095C-2-4	2-CH-206	1	B-P	B15.50	4/21/1992
12050-SPM-095C-2-4	2-CH-206	1	B-P	B15.70	4/21/1992
12050-SPM-095C-2-4	2-CH-206	1	B-P	B15.70	10/26/1993
12050-SPM-095C-2-5	2-CH-206	1	B-P	B15.50	4/21/1992
12050-SPM-095C-2-5	2-CH-206	1	B-P	B15.50	10/26/1993
12050-SPM-095C-2-6	2-CH-204	1	B-P	B15.50	2/26/1992
12050-SPM-095C-2-6	2-CH-204	1	B-P	B15.50	10/26/1993
12050-SPM-095C-2-6	2-CH-204	1	B-P	B15.60	2/26/1992
12050-SPM-095C-2-6	2-CH-204	1	B-P	B15.60	10/26/1993
12050-SPM-096B-4-5	2-SI-211	1	B-P	B15.50	10/26/1993
12050-SPM-096B-4-5	2-SI-211	1	B-P	B15.50	4/21/1992
12050-SPM-096B-4-5	2-SI-211	1	B-P	B15.70	10/26/1993
12050-SPM-096B-4-5	2-SI-211	1	B-P	B15.70	4/21/1992
12050-SPM-096B-4-7	2-SI-214	1	B-P	B15.50	4/21/1992
12050-SPM-096B-4-7	2-SI-214	1	B-P	B15.50	10/26/1993
12050-SPM-096B-4-7	2-SI-214	1	B-P	B15.70	10/26/1993
12050-SPM-096B-4-7	2-SI-214	1	B-P	B15.70	4/21/1992
12050-SPM-102B-1-4	2-WT-201	2	C-H	C7.30	3/18/1992
12050-SPM-102B-1-4	2-WT-201	2	C-H	C7.70	3/18/1992
12050-SPM-102B-1-5	2-WT-202	2	C-H	C7.30	3/18/1992
12050-SPM-102B-1-5	2-WT-202	2	C-H	C7.70	3/18/1992
12050-SPM-102B-1-6	2-WT-203	2	C-H	C7.30	3/18/1992
12050-SPM-102B-1-6	2-WT-203	2	C-H	C7.70	3/18/1992
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The following errors were found in past NIS-1 reports:

System pressure test 2–CC–207 was incorrectly reported in the 1992 report as 2–CC–206.

System pressure test 2–MS–204 was incorrectly reported in the 1993 report as Class 2. It is actually Class 3.

System pressure test 2–RS–205 was reported in both the 1992 and 1993 NIS–1 reports. The date of record is 12/8/93.

Attachment 1 Page 22 of 30 Serial No.: 99-601 Docket No.: 50-339

Abstract of Examinations Performed Of Pressure Retaining Bolting Per Relief Request SPT-12

Relief request SPT-12 allows for the visual (VT-2) testing of Class 1 and Class 2 bolting in systems containing boric acid, and located in containment to be tested at zero or static pressure. This was accomplished using procedure 2-PT-48, Revision 011. The following is a summary of the reportable indications and corrective actions:

2-RC-MOV-2592: Boric acid was present on bolting and determined to have

originated at a packing leak and traveled down the valve bonnet and onto the studs and nuts. The bolting was evaluated per

relief request SPT-14 and found not to be degraded.

2-RC-PCV-2455A: Packing leak. The packing was replaced under work order

00414600-01 and completed on 9-23-99.

2-RC-PCV-2455B: Packing leak. The packing was replaced under work order

00415829-01 and completed on 9-23-99.

2-RC-P-1C: Seal leak. The bolting was replaced under work order

00417140-01 and completed on 9-28-99.

2-RC-HCV-2556A: Body to bonnet leak and packing leak. The bolting was

removed, examined, and reinstalled under work order

00417248-01 and completed on 9-19-99.

2-RC-HCV-2557C: Packing leak. The packing was adjusted under work order

00417480-01 and completed on 9-23-99.

2-CH-HCV-2200B Packing leak. The packing was adjusted under work order

00417157-05 and completed on 9-17-99.

Class 2 bolting in systems containing boric acid was examined in accordance with 2-PT-48.1, Revision 003 and 2-PT-48.2 Revision 001. The following is a summary of the reportable indications and corrective actions:

2-RH-25: Body to bonnet leak. The bolting was removed, examined, and

reinstalled under work order 00417201-01 and completed on 9-

22-99.

2-RH-FCV-2605: Packing leak. The packing was adjusted under work order

00417182-01 and completed on 9-22-99.

2-RH-RV-2721B: Body plug leak. The plug was removed, threads cleaned, and

reinstalled under work order 00417360-01 and completed on 9-

22-99.

2-RH- 34: Packing leak. The packing was replaced under work order

00417209-01 and completed on 9-24-99.

2-CH-FE-2156B: Flange leak. The bolting was replaced under work order

00417286-01 and completed on 9-25-99.

2-CH-TV-2204B: Packing leak. The packing was replaced under work order

00417363-01 and completed on 9-23-99.

Attachment 1 Page 24 of 30 Serial No.: 99-601 Docket No.: 50-339

Abstract of Examinations

Snubber Program

A total of 93 small bore snubbers were replaced as part of the normal Technical Specification Functional Test Program. There were no functional test failures in the 93 small bore snubbers functionally tested under this program.

No visual discrepancies were identified. One snubber, 2-FW-HSS-225, was visually reinspected and found to be satisfactory. The reinspection was the result of this snubber failing visual inspection last outage.

Small bore snubber removal and installation for the Technical Specification Functional Testing and Visual Inspection Programs are considered maintenance activities and are not ASME Section XI repairs and replacements. For this reason the ANII was not involved in review of the functional or visual programs.

Two large bore snubbers were scheduled for functional testing as part of normal surveillance (2-RC-HSS-3A and 2-RC-HSS-11B). Seven other large bore snubbers were functionally tested as a result of failing functional testing during the previous outage (2-RC-HSS-1A, 1B, 3C, 10B, 10C, 11A, and 11C). These nine large bore snubbers satisfactory passed functional testing.

Attachment 1 Page 25 of 30 Serial No.: 99-601 Docket No.: 50-339

Abstract of Examinations

Eddy Current Examinations Of Nonferromagnetic Steam Generator Tubing

Examination Scope

The inservice eddy current examination was performed on Unit 2 Steam Generator (S/G) "B". The base inspection consisted of a total of 1796 tubes that were inspected with a bobbin probe over their full length.

The inspections also consisted of the following rotating pancake coil (RPC) examinations:

- 20% hot leg top of tubesheet 3-coil RPC testing (719 tubes), and
- 20% Row 1 U-bend single coil RPC testing (20 tubes) inspection.

Plugged Tubes

No tubes were plugged as a result of this inspection

Inspection Results

No tubing wear at Anti-vibration Bar (AVB) contact points was observed even at the initial level of approximately 10% thru-wall (TW). These results are consistent with the experience in the industry regarding the initiation of AVB indications in earlier F-type steam generators. Industry experience indicates that AVB indications typically begin to be detected at approximately the 4th to 5th cycle of operation.

No volumetric like signals such as the one found on Unit 1 in the Fall 98 inspection were found during the current inspection of Unit 2.

A total of 25 Manufacturing Buff Mark (MBM) signals were observed in a total of 17 tubes. The MBM signals were typical of those observed on baseline inspections. All MBM signals were resolved through comparison of signals with baseline results per the analysis guidelines

No evidence of tube degradation of any sort was identified during this inspection.

Summary and Conclusion

Overall condition assessments have been performed and included in the North Anna Steam Generator Monitoring and Inspection Program Plan. Performance criteria have been established in the North Anna Steam Generator Monitoring and Inspection Program Plan. The inspection performed on the "B" steam generator was consistent

Attachment 1 Page 26 of 30 Serial No.: 99-601 Docket No.: 50-339

with the Program Plan and the results formed the basis of the condition monitoring and operational assessment performed for this outage.

Acceptable tube integrity at the end of the current operating cycle has been demonstrated by these inspection results. Condition monitoring and operational assessment requirements on burst pressure and accident condition leak rates are satisfied.

Attachment 1 Page 27 of 30 Serial No.: 99-601 Docket No.: 50-339

Abstract of Examinations

Containment Inservice Inspection

- I. The requirements of 10 CFR 50.55a(b)(ix)(E) state for Class CC applications, that the licensee shall evaluate the acceptability of inaccessible areas when conditions exist in accessible areas that could indicate the presence of or result in degradation to such inaccessible areas. For each inaccessible area identified, the licensee shall provide the following in the ISI Summary Report required by IWA-6000:
 - 1) A description of the type and estimated extent of degradation, and the conditions that led to the degradation;

Discovery of a blister in the liner protective coating at about the 246 foot elevation near column 5 and subsequent removal of the blister revealed a corroded spot under the paint. Probing of the approximately 1/4 inch diameter corroded spot revealed a deep pit believed to be through wall. Subsequent pressure testing confirmed the hole to be through the liner. UT thickness measurements made in the vicinity of the hole on a 2 inch X 2 inch grid, revealed anomalous readings that were not indicative of the suspected corrosion mechanism and prompted the removal of a 5 inch X 7 inch piece of the liner roughly centered on the hole and another about 3 inch diameter piece of the liner a short distance from the hole. Examination of the removed pieces revealed. contrary to expectation, that corrosion had occurred from the inside of the liner to the outside. There had actually been extensive corrosion of the liner material in contact with the concrete. Examination of the exposed concrete surface revealed the presence of a piece of wood, subsequently determined to be a 4 inch X 4 inch timber, approximately 6 feet in length, which had been in contact with the liner at the location of the hole. The 4X4 was embedded in the concrete and appears to have been present since the initial concrete placement.

2) An evaluation of each area, and the result of the evaluation;

The location and size of the 4X4 was determined by combining visual examinations, UT thickness measurements of liner degradation and mechanical probes. The concrete structure was assessed as being affected slightly, but retaining the required minimum design.

3) A description of necessary corrective actions;

The 4X4 was removed and the concrete void was grouted.

II (a). The requirements of 10 CFR 50.55a(b)(x)(A) state for Class MC applications, that the licensee shall evaluate the acceptability of inaccessible areas when conditions exist in accessible areas that could indicate the presence of or result

Attachment 1 Page 28 of 30 Serial No.: 99-601 Docket No.: 50-339

in degradation to such inaccessible areas. For each inaccessible area identified, the licensee shall provide the following in the ISI Summary Report required by IWA-6000:

1) A description of the type and estimated extent of degradation, and conditions that led to the degradation;

Discovery of a blister in the liner protective coating at about the 246 foot elevation near column 5 and subsequent removal of the blister revealed a corroded spot under the paint. Probing of the approximately 1/4 inch diameter corroded spot revealed a deep pit believed to be through wall. Subsequent pressure testing confirmed the hole to be through the liner. UT thickness measurements made in the vicinity of the hole on a 2 inch X 2 inch grid, revealed anomalous readings that were not indicative of the suspected corrosion mechanism and prompted the removal of a 5 inch X 7 inch piece of the liner roughly centered on the hole and another about 3 inch diameter piece of the liner a short distance from the hole. Examination of the removed pieces revealed. contrary to expectation, that corrosion had occurred from the inside of the liner to the outside. There had actually been extensive corrosion of the liner material in contact with the concrete. Examination of the exposed concrete surface revealed the presence of a piece of wood, subsequently determined to be a 4 inch X 4 inch timber, approximately 6 feet in length, which had been in contact with the liner at the location of the hole. The 4X4 was embedded in the concrete and appears to have been present since the initial concrete placement.

Analysis of the removed steel indicates that the contact of the liner plate with the wood timber interfered with the normal tendency for concrete's alkalinity to inhibit corrosion of embedded steel. The occlusion of the surface at the point of contact between steel and timber created a point of active corrosion, undoubtedly influenced by the residual moisture in the wood. There is evidence that the influence of the wood was felt beyond the point of closest contact. Presumably this was because of the less than optimal concrete to steel interface that would have occurred due to the presence of the obstruction to effective consolidation of the concrete in the area caused by the wood.

2) An evaluation of each area, and the result of the evaluation;

UT thickness readings were made on an extended area on either side of the hole location using a 1 inch X 1 inch inspection grid. The inspection revealed a pattern of lower than the constructed minimum (0.375 inch) thicknesses in a band about 18 inch high by about 8 foot long extending both directions from the hole. Based on an analyzed minimum acceptable wall thickness in the area of 0.250 inch, and to aid removal of the wood from the wall, sections of liner about 10 inches long and 3 inches high were removed along the band of low readings. One additional section about 4 X 4 inch area with a measured wall thickness less than 0.250 inch was also removed.

Attachment 1 Page 29 of 30 Serial No.: 99-601 Docket No.: 50-339

3) A description of necessary corrective actions;

All of the liner plate requiring replacement at elevation 246 feet and column 5 was replaced prior to restart. Some degraded plate, that is, liner exhibiting less than the constructed minimum 0.375 inch wall thickness but still thicker than the 0.250 inch minimum acceptable wall thickness, remains in the area. To confirm that the removal of the 4 X 4 has eliminated the corrosion mechanism, it was necessary to establish baseline thickness readings on the unremoved material and to monitor those areas for the next 3 ISI periods by UT performing thickness measurements.

- II (b). The requirements of 10 CFR 50.55a(b)(x)(A) state for Class MC applications, the licensee shall evaluate the acceptability of inaccessible areas when conditions exist in accessible areas that could indicate the presence of or result in degradation to such inaccessible areas. For each inaccessible area identified, the licensee shall provide the following in the ISI Summary Report required by IWA-6000:
 - 1) A description of the type and estimated extent of degradation, and conditions that led to the degradation;

During the Code required General Visual examination it was noted that there were a number of areas at the interface of the containment steel liner with the concrete floor where there was evidence of some apparent rust. The rust was apparently the result of atmospheric humidity or possibly surface moisture being in contact with the carbon steel over the years of operation.

2) An evaluation of each area, and the result of the evaluation;

Initial assessment indicated the advisability of removing some concrete in a sample of the questionable areas to more effectively evaluate the condition. Four areas at the liner to floor interface varying in length from about 4 inches to about 24 inches were excavated in the concrete with a chipping hammer to an initial depth of about 1 inch and a width of about 1 inch. The excavated areas were cleaned of debris and visually examined. In all cases there was evidence of some rust bloom or stain on the steel surface below the level of the floor for a short distance. The rust was not thick or scale like, nor particularly tightly adherent. In two of the excavations the rust appeared to continue deeper than the initial 1 inch excavation and additional excavation was performed. In one of these areas the removal of about an additional 1 inch of concrete for a length of about 12 inches exposed uncorroded liner steel. In the about 4 inch long excavation the removal of about another 2 inches of concrete more than reached the limit of any corrosion.

Attachment 1 Page 30 of 30 Serial No.: 99-601 Docket No.: 50-339

Wall thickness measurements were made in a grid pattern along the length of the excavations. Wall thicknesses of the constructed minimum 0.375 inch liner plate varied from about 0.365 inch to about 0.400 inch indicating the maximum wall loss that may have occurred is about 0.035 inch, which agrees well with the observation of little or no visible loss of metal from the liner.

There was one location in an excavated area located about 210 inches from column 6 towards column 7 and about ½ inch below the floor level that exhibited a wall thickness as thin as 0.282 inch. The spot was about 1 inch long and ¼ inch wide. Since it was visibly evident that there was little or no loss of wall on the inside of the liner, because the variation in thickness in the area was not consistent with a plate lamination, and based on the assessment by NDE personnel, it was concluded that the area probably represents a local thinning on the outside surface of the liner plate such as might have been caused by a gouge during erection. Analysis of the effect of the thinned area indicates that the structural and leak tight integrity of the liner is maintained.

The assessment of the four excavated areas reveals that there has been very little general loss of liner wall thickness (about a maximum of 0.035 inch) in the approximately 18 years of operation of NAPS Unit 2 at the liner to floor interface. Additionally, it is apparent that the depth of the corrosion process is minimal, extending a maximum of about 3 inches below the level of the floor. Based on the areas examined, there is no concern relative to the structural integrity or leak tightness of the liner. Consequently, it is concluded that based on a possible average corrosion rate less than 0.002 inch a year, continued operation of the unit while the rest of the identified liner to floor interface areas of concern remain unrepaired is acceptable because the liner will continue to be fully capable of performing its design function, i.e. preventing leakage of containment atmosphere to the environment.

3) A description of necessary corrective actions;

The area with the indicated 0.282 wall thickness should be monitored for the next 3 ISI Periods to verify that no corrosion between the steel liner and containment wall is occurring by performing UT thickness measurements. Therefore repair of the concrete floor in the areas shall be postponed until such time as it has been demonstrated that the indication is not growing. The protective coatings on the liner have been repaired. It is necessary to reinspect the area through the paint to establish a baseline for future comparison. Finally, the excavation in the concrete floor has the potential to collect water, which might promote corrosion. Normal outage walk downs should assure the area stays dry.

Attachment 2

Inservice Inspection Summary Report

North Anna Power Station Unit 2
P.O. Box 402
Mineral, Virginia 23117

1999 Refueling Outage
Owner's Report
of
Repairs and Replacements
and
NIS-2 Forms

Commercial Service Date 12-14-80

Virginia Electric and Power Company 5000 Dominion Boulevard Glen Allen, Virginia 23060

Repair and Replacements

Repair and replacements completed during this refueling outage were performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code, 1986 Edition.

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

RR# 96-202, replaced valve 2-MS-41 due to leakby, Class 2. This replacement was performed under work order 00318988-02, and completed on 9/20/99.

RR# 97-436, replaced valve 2-MS-57 which had been previously injected with furmanite, Class 2. This replacement was performed under work order 00377155-01, and completed on 9/24/99.

RR# 97-437, replaced valve 2-MS-18 which had been previously injected with furmanite, Class 2. This replacement was performed under work order 00377141-01, and completed on 9/29/99.

RR# 97-438, replaced valve 2-MS-353 which had been previously injected with furmanite, Class 2. This replacement was performed under work order 00377156-01, and completed on 9/27/99.

RR# 97-440, replaced valve 2-MS-19 which had been previously injected with furmanite, Class 2. This replacement was performed under work order 00376840-01, and completed on 9/25/99.

RR# 97-441, replaced valve 2-MS-58 which had been previously injected with furmanite, Class 2. This replacement was performed under work order 00379155-01, and completed on 9/25/99.

RR# 98-305, replaced a nonqualified shim plate on support 2-CH-PH-R-409.10, Class 1. This replacement was performed under work order 00398197-01, and completed on 9/22/99.

RR# 99-031, replaced body to bonnet bolting during repair for seat leakby on valve 2-SI-MOV-2860B, Class 2. This replacement was performed under work order 00407140-01, and completed on 9/23/99.

RR# 99-057, replaced bolting and packing due to boric acid on threads from a packing leak on valve 2-QS-MOV-201B, Class 2. This replacement was performed under work order 00399491-01, and completed on 9/27/99.

RR# 99-059, replaced damaged hilti nuts on support 2-SI-R-57, Class 2. This replacement was performed under work order 00411244-01, and completed on 5/28/99.

RR# 99-110, replaced bolting during inspection of internals for valve 2-RC-HCV-2535, Class 1. This replacement was performed under work order 00417388-01, and completed on 9/23/99.

RR# 99-111, machined 0.015" off of bonnet at the body to bonnet surface to restore seating surface for valve 2-MS-258, Class 2. This repair was performed under work order 00399881-01, and completed on 9/23/99.

RR# 99-113, replaced disc insert due to normal wear and machined nozzle and spring washer to restore design on valve 2-MS-SV-201B, Class 2. This replacement was performed under work order 00402597-01, and completed on 9/28/99.

RR# 99-114, replaced adjusting bolt and nut found defective during disassembly. Machined spring washer to restore design on valve 2-MS-SV-205B, Class 2. This replacement was performed under work order 00402609-01, and completed on 9/27/99.

RR# 99-115, replaced disc insert due to normal wear and machined spring washer to restore design dimensions on valve 2-MS-SV-204B, Class 2. This replacement was performed under work order 00402606-01, and completed on 9/27/99.

RR# 99-116, machined spring washer to restore design dimensions on valve 2-MS-SV-202B, Class 2. This replacement was performed under work order 00402600-01, and completed on 9/27/99.

RR# 99-117, machined spring washer to restore design dimensions on valve 2-MS-SV-203B, Class 2. This replacement was performed under work order 00402603-01, and completed on 9/27/99.

RR# 99-119, replaced valve 2-MS-121 found to be unacceptable during check valve inspection and installed shim plate on support 2-SHP-RH-136, Class 2. The replacements were performed under work order 00402572-02, and completed on 9/23/99. Plant Issue 1999-2583 was written for shim plate not being included in repair and replacement program.

RR# 99-122, replaced spring on valve 2-RC-SV-2551A due to failure of spring rate test, Class 1. This replacement was performed under work order 00402651-01, and completed on 10/1/99. Valve passed the as-found set pressure test.

RR# 99-123, replaced spring on valve 2-RC-SV-2551B due to failure of spring rate test, Class 1. This replacement was performed under work order 00402652-01, and completed on 10/1/99. Valve passed the as-found set pressure test.

Attachment 2 Page 3 of 32 Serial No.: 99-601 Docket No.: 50-339

RR#99-127, replaced disc insert due to normal wear and machined nozzle and spring washer to restore design on valve 2-MS-SV-201C, Class 2. This replacement was performed under work order 00402598-01, and completed on 9/28/99.

RR# 99-128, replaced disc insert due to normal wear on valve 2-MS-SV-204C, Class 2. This replacement was performed under work order 00402607-01, and completed on 9/27/99.

RR# 99-129, replaced disc insert due to normal wear on valve 2-MS-SV-205C, Class 2. This replacement was performed under work order 00402610-01, and completed on 9/27/99.

RR# 99-130, bored out adjusting bolt threads, welded area, and tapped adjusting bolt threads on valve 2-MS-SV-205B, Class 2. This repair was performed under work order 00402609-01, and completed on 9/23/99.

RR# 99-135, replaced plug on valve 2-RC-PCV-2455C due to leakby, Class 1. This replacement was performed under work order 00410714-01, and completed on 9/29/99.

RR# 99-138, replaced flange studs and nuts on valve 2-RC-SV-2551C with improved design, Class 1. This replacement was performed under work order 00402653-02, and completed on 10/1/99.

RR# 99-139, replaced flange studs and nuts on valve 2-RC-SV-2551B with improved design, Class 1. This replacement was performed under work order 00402652-02, and completed on 10/1/99.

RR# 99-140, replaced flange studs and nuts on valve 2-RC-SV-2551A with improved design, Class 1. This replacement was performed under work order 00402651-01, and completed on 10/1/99.

RR# 99-141, replaced studs and nuts due to flange leak on flow element 2-CH-FE-2156B, Class 2. This replacement was performed under work order 00417286-01, and completed on 9/25/99.

Page 4 of 32 Serial No.: 99-501- 601 Docket No.: 50-339 J ₩ ★

12/15/99

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

Owner <u>Virginia Elec</u>	tric & Power Compa			Date October 18, 199	99		
5000 Dominion Blvd., G)		Sheet 1	of	1	
2. Plant North Anna Po	wer Station Name	е		Unit:2			
P.O. Box 402, Mineral,	VA 23117 Address			R/R 96-202 Work O Repair Organiz		988-02 O. No. Job No. ,	etc.
3. Work Performed By	Virginia Electric & Po			Type Code Symbol S			
5000 Dominion Blvd., G				Authorization No Expiration Date		N/A N/A	
4. Identification of Syste	em <u>Main Steam, Clas</u>	s 2	······································				
(b) Applicable Edit	nstruction Code ANS tion of Section XI Util mponents Repaired	ized for Repairs o	or Replacemen		da, <u>78, 8</u>	1, 83(R), 115 (Code Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1 ½" Globe Valve	Henry Vogt Machine Co.	4-217108	N/A	2-MS-41	1995	Replacement	No
7. Description of Work	Replaced valve due	e to leakby.					
8. Tests Conducted:	Hydrostatic Pneu Other Pressure	_	inal Operating Test Temp.				
information in iter	ental sheets in form on the state of the top of this form	s report is include	or drawings m ed on each she	ay be used, provided et, and (3) each shee	(1) size et is num	is 8 ¹ / ₂ in. x 11 ir bered and the nu	n., (2) umber of

	Applicable Manufacturer's Data Reports to be attached
	CERTIFICATE OF COMPLIANCE
•	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
١SM	E Code, Section XI.
·vpe	Code Symbol StampN/A
	27.6
Certi	icate of Authorization No. N/A Expiration Date N/A
	d Pat 1 Naught ISI Engineer Date October 18 , 19 99
Signe	Owner of Owner's Designee, Title
	THE PROPERTY OF THE PROPERTY O
	CERTIFICATE OF INSERVICE INSPECTION undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
, th	ovince of Virginiaand employed by _H.S.B.I. & Io
Ha	met for all CThave inspected the components described
in th	
to ti	e best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in thi
Owr	er's Report in accordance with the requirements of the ASME Code, Section XI.
E	y signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning th
exar	ninations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employed
shal	be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with thi
insp	ection.
	M Hule Commissions VA 424 - R Inspector's Signature Commissions National Board, State, Province, and Endorsements

Attachment 2 Page 5 of 32 Serial No.: 99-501-

Docket No.: 50-339

601 JWR 12/15/99

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

4. Owner Minnish Flor	atria e Danna Camara			5-1-0-1-1-40-40			
Owner <u>Virginia Elec</u>	tric & Power Compa Nam			Date October 13, 19	99		
5000 Dominion Blvd., G	Hen Allen VA 23060	1		Sheet 1	of	1	
COO BOILMION BIVE., C	Address			Ollege	OI		,
2. Plant North Anna Po	ower Station			Unit: 2			
•	Nam	е					
P.O. Box 402, Mineral,				R/R 97-436 Work C			
	Address			Repair Organ	ization P.	O. No. Job No. ,	etc.
3. Work Performed By			·	Type Code Symbol			
5000 Dominion Blvd., G	Nam			Authorization No			
3000 DOMINION BIVE., C	Address			Expiration Date		IN/A	
4. Identification of Syste	əm <u>Main Steam, Cla</u> s	ss 2					
5. (a) Applicable Co.	nstruction Code <u>ANS</u> tion of Section XI Uti	I B31.7 lized for Benairs (19 <u>69</u> Editio	on, 1970 Adden	da, <u>78. 8</u>	<u>I, 83(R), 115 (</u>	Code Case
(b) Applicable Lai	non or occuon xi ou	nzed for Hepairs	or replacemen	no 19 <u>00 Lunion</u>			
6. Identification of Co	mponents Repaired	or Replaced and	Renlacement	Components			
	mponomio riopamoa	or replaced and	riopiacomeni				
							ASME
							Code
Name of	Name of	Manufacturer	National Board	Other	Year	Repaired, Replaced,	Stamped (Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)
		•					
	<u> </u>						
3" Gate Valve	Velan	Serial # 11228	N/A	2-MS-57	1998	Replacement	No
O" Dies	Consolidated		N//A	0.110.57	1000	1	<u></u>
3" Pipe	Power Supply	Ht. # Y67155	N/A	2-MS-57	1998	Replacement	No
	1						
					 		
7. Description of Wor	k <u>Replaced valve pre</u>	viously injected w	ith furmanite.				
	 .						
8. Tests Conducted:	· _ =	_	ninal Operating	,			
	Other Pressure	1000 ps	i Test Temp.	NA°F			
NOTE: Supplem	ental sheets in form	of lists, sketches,	or drawings n	nay be used, provided eet, and (3) each she	d (1) size	is 8 ¹ / ₂ in. x 11 in	1., (2)
	ed at the top of this fo		au on each sh	eet, and (3) each she	et is num	berea ana the Ni	imper of

Remarks <u>Code Case N-416-1 was invoked for this replacement.</u>	
Applicable Manufacturer's Data Reports to be attached	
Change from original manufacture justified by FEER NV637010. A00	
FT- CFM-98-0001 Rev & Seismic Evalvation	
E1- CEM-18-0001 VOV & SEISMIC CORIVATION	
	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the ru	les of the
ASME Code, Section XI.	
Type Code Symbol StampN/A	
Type Code Symbol Stamp	
Certificate of Authorization No. N/A Expiration Date N/A	
Signed Pat Maught ISI Engineer Date October 13, 19	<u>99</u>
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	
or Province of Virginia and employed by H.S.B.I. & I.	0
Hartford, CT have inspected the components in this Owner's Report during the period 12/30/97 to 10/18/99, and	s describe
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures descr	ibed in thi
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, con	_
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor hi	
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected.	ed with th
inspection.	
MM Augu Commissions VA424-R	
Inspector's Signature Commissions VA 424 P. National Board, State, Province, and Endor	sements .
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Date	
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Page 6 of 32 Serial No.: 99-501 Docket No.: 50-339

12/15/99

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 Elec</u>	ctric & Power Compa Nam			Date October 12, 199	99		
5000 Dominion Blvd., G)	****	Sheet 1	of	1	
2. Plant North Anna Po	ower Station Nam	e		Unit:2			
P.O. Box 402, Mineral,	VA 23117 Address	·····		R/R 97-437 Work O		141-01 O. No. Job No. ,	etc.
3. Work Performed By				Type Code Symbol S			
5000 Dominion Blvd., G	Nam <u>Glen Allen, VA_23060</u> Address)		Authorization No Expiration Date			
4. Identification of Syste	em <u>Main Steam, Clas</u>	ss 2					
(b) Applicable Edi	nstruction Code <u>ANS</u> tion of Section XI Uti omponents Repaired	lized for Repairs o	or Replacemen		ia, <u>78, 8</u>	I, 83(R), 115 (Code Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3" Globe Valve	Velan	Serial # 205	N/A	2-MS-18	1999	Replacement	No
3" Pipe	Consolidated Power Supply	Ht. # Y67155	N/A	2-MS-18	1998	Replacement	No
			<u> </u>				
7. Description of World	k <u>Replaced valve pre</u>	viously injected w	ith furmanite.				
8. Tests Conducted:	Hydrostatic Pneu Other Pressure	_	inal Operating Test Temp				
information in iter	ental sheets in form ms 1 through 6 on thi d at the top of this fo	is report is include	or drawings m ed on each she	ay be used, provided et, and (3) each shee	(1) size et is num	is $8^1/_2$ in. x 11 in bered and the nu	n., (2) umber of

emarks Code Case N-416-1 was invoked for this replacement.	·
Applicable Manufacturer's Data Reports to be attached	
Change from original manufacturer justified by IFER NU637010. A00	
FT CEM 98-0001 Rev & Seizmire Evaluation	
	,
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this replacement conforms to the ru	ules of the
SME Code, Section XI.	
· · · · · · · · · · · · · · · · · · ·	
/pe Code Symbol StampN/A	
The Gode by Misor Otamp	
ertificate of Authorization No. N/A Expiration Date N/A	
,	
gned Pat Wangto ISI Engineer Date October 13 , 18 Owned or Owner's Designee, Title	o <i>59</i>
gned <u>Fat I Naught</u> <u>ISI Engineer</u> Date <u>October 13</u> , 19 Ownerfor Owner's Designee, Title	·
CERTIFICATE OF INSERVICE INSPECTION	
·	nd the State
the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors are Province of Virginia and employed by H.S.B.I. & I.	nu me state
Hartford, CT have inspected the component this Owner's Report during the period $\frac{2/30/97}{10/97}$ to $\frac{10/19/97}{10/97}$, and	is described
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures desc	ribed in this
wner'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, cor	ncerning the
caminations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor h	nis employer
all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connect	ted with this
spection.	
MM Huc Commissions VA 424 - R Inspector's Signature Commissions National Board, State, Province, and Endo	
Inspector's Signature National Board, State, Province, and Endo	rsements
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Attachment 2 Page 7 of 32

Serial No.: 99-501-Docket No.: 50-339 UWK

12/15/90

601

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

1. Owner Virginia Elec	tric & Power Compa	ny		Date October 13, 19	99		
	Nam	е					
5000 Dominion Blvd., G	ien Allen, VA 2306 Address			Sheet 1	of	1	
2. Plant North Anna Po	ower Station Nam			Unit: 2			
P.O. Box 402, Mineral,	VA 23117			R/R 97-438 Work C	rder 377	156-01	
1 .O. DOX 402, Mineral,	Address					O. No. Job No. ,	etc.
3. Work Performed By	Virginia Electric & P Nam		<u>· </u>	Type Code Symbol S Authorization No.			
5000 Dominion Blvd., G	ilen Allen, VA 2306 Address			Expiration Date		N/A	
4. Identification of Syste	em Main Steam, Cla	ss 2					
(b) Applicable Edi	nstruction Code <u>ANS</u> tion of Section XI Uti emponents Repaired	lized for Repairs o	or Replacemer		da, <u>78, 8</u>	1, 83(R), 115 (Code Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3" Globe Valve	Velan	Serial # 13246	N/A	2-MS-353	1998	Replacement	No
3" Pipe	Consolidated Power Supply	Ht. # Y67155	N/A	2-MS-353	1998	Replacement	No
3" Elbow	Energy & Process Corp.	Ht. # G353A	N/A	2-MS-353	1998	Replacement	No
7. Description of World	k <u>Replaced valve pre</u>	eviously injected w	vith furmanite.				
8. Tests Conducted:	Hydrostatic□ Pne	umatic 🗀 Nom	ninal Operating	Pressure 🔯			
5. 100to ooriddoted.	Other Pressure		i Test Temp.				
information in iter	ental sheets in form	of lists, sketches,	or drawings n	nay be used, provided eet, and (3) each she	d (1) size et is num	e is 8 ¹ / ₂ in. x 11 in abered and the no	n., (2) umber of

, Remarks <u>Code Case N-416-1 was invoked for this replacement.</u>
Applicable Manufacturer's Data Reports to be attached
Applicable Manufacturer's Data Reports to be attached Change in original manufacture justified by IEER NV 637011. A 00
Seismic Evaluation ET CEM-98-600] Rev O
Seismic Evaluation Et Cent 10 000 Nev o
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the repair or replacement
ASME Code, Section XI.
Type Code Symbol StampN/A
,
Certificate of Authorization No. N/A Expiration Date N/A
Certificate of Authorization No
Signed Pat Naughter ISI Engineer Date October 13 , 19 99
Signed Path Naughler ISI Engineer Date October 13 , 19 99
CWHell of CWHell's Designee, True
. CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of <u>Virginia</u> and employed by <u>H.S.B.I. & I.</u> of
How inspected the components described
Hartford, CT have inspected the components described in this Owner's Report during the period 12/30/97 to 10/19/79 , and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this
inspection.
Anna De Carrette de la Carrette de l
In (n) Frace Commissions VA424-R Inspector's Signature National Board, State, Province, and Endorsements
Inspector's Signature Institute Institute Inspector's Signature
,
Date 10/19 19.99

Page 8 of 32 Serial No.: 99-501 Docket No.: 50-339

601 JWK 12/15/99

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 Elec</u>	tric & Power Compa		·	Date October 18, 19	99		
5000 Dominion Blvd., G	ilen Allen, VA 23060 Address			Sheet1	of	1	
2. Plant North Anna Po				Unit: _ 2	·		
P.O. Box 402, Mineral,	VA 23117 Address			R/R 97-440 Work (6840-01 O. No. Job No. ,	etc
2 Mark Darformed By							
3. Work Performed By	Nam			Type Code Symbol S			
5000 Dominion Blvd., G		_		Authorization No Expiration Date			
	Address						
4. Identification of Syste	em <u>Main Steam, Clas</u>	ss 2					
 (a) Applicable Cor (b) Applicable Edit 	nstruction Code <u>ANS</u> tion of Section XI Uti	l B16.5 lized for Repairs o	19 <u>68</u> Editio or Replacemer	n, Adden nts 19 <u>86</u> Edition	da,		Code Case
6. Identification of Co	mponents Repaired	or Replaced and	Replacement (Components			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3" Bonnet	Crane Nuclear, Inc.	Serial # C7451	N/A	2-MS-19	1998	Replacement	No
¾" Heavy Hex Nuts	Mackson, Inc.	Ht. # 33863PE	N/A	2-MS-19	1997	Replacement	No
¾" Studs	Mackson, Inc.	Ht. # 05309	N/A	2-MS-19	1998	Replacement	No
7. Description of Work							
8. Tests Conducted:	Hydrostatic Pneu Other Pressure		ninal Operating i Test Temp.				
NOTE: Supplem	ental sheets in form	of lists, sketches,	or drawings m	nay be used, provided	d (1) size	e is 8 ¹ /₂ in. x 11 i	n., (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.

	Applicable Manufacturer's Data Reports to be attached
	
	CERTIFICATE OF COMPLIANCE
We ASME Code, S	certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the repair or replacement
Type Code Sy	mbol StampN/A
ertificate of	Authorization No, N/A Expiration Date N/A
Signed Pa	the Naughta ISI Engineer Date Odeba 18 , 1999
	CERTIFICATE OF INSERVICE INSPECTION
the undersio	aned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stat
	Virginia and employed by H.S.B.I. & I.
n this Owner	have inspected the components describe r's Report during the period $\frac{12/30/97}{10/97}$ to $\frac{10/18/99}{10/99}$, and state the
	my knowledge and belief, the Owner has performed examinations and taken corrective measures described in the
Owner's Repo	rt 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
	and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employed in any manner for any personal injury or property damage or a loss of any kind arising from or connected with the
nspection.	
m	M Huu Commissions VA 424-R
	Inspector's Signature Commissions V7724-1. National Board, State, Province, and Endorsements
	10/18 19.99

Attachment 2
Page 9 of 32
Serial No.: 99-591 60 \
Docket No.: 50-339 JWK

12/15/99

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

1. Owner Virginia Elec				Date October 13, 19	99	<u></u>	
	Nam	-					
5000 Dominion Blvd., G	<u>ilen Allen, VA 23060</u> Address			Sheet1	of	1	
2. Plant North Anna Po	wer Station			Unit:2			
E. Flam Italia I I	Nam						
P.O. Box 402, Mineral,		· · · · · · · · · · · · · · · · · · ·		R/R 97-441 Work (
O Mr. d. Derfermed Der	Address					O. No. Job No. ,	
3. Work Performed By	Virginia Electric & Pi Nam			Type Code Symbol : Authorization No.	-		
5000 Dominion Blvd., G)		Expiration Date		N/A	
	Address	_					
4. Identification of Syste	em <u>Main Steam, Clas</u>	ss 2			· · · · · · · · · · · · · · · · · · ·		
5. (a) Applicable Cor	struction Code ANS	I B16.5	19 <u>68</u> Edition	n,Adden	da,		Code Case
(b) Applicable Edit	tion of Section XI Uti	lized for Hepairs o	or Replacemen	ts 19 <u>86</u> Edition			
6. Identification of Co	mponents Repaired	or Replaced and	Replacement 0	Components			
							· · · · · · · · · · · · · · · · · · ·
							ASME
			National			Repaired,	Code Stamped
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Year Built	Replaced, or Replacement	(Yes or No)
3" Bonnet	Crane Nuclear, Inc.	Serial # C7450	N/A	2-MS-58	1998	Replacement	No
34" Heavy Hex Nuts	Mackson, Inc.	Ht. #	N/A	2-MS-58	1997	Replacement	No
, riouvy riox ridio	indonesii, iiidi	16409JI		2 33	100.	T Topiago.none	"
¾" Studs	Mackson, Inc.	Ht. # 05309	N/A	2-MS-58	1998	Replacement	No
		05309		ļ	 		
7. Description of Work	Replaced valve bo	nnet previously inj	jected with furn	nanite.			
8. Tests Conducted:	Hydrostatic∏ Pne	ımatic	ninal Operating	Pressure 🔀			
	Other Pressure		i Test Temp.	· _			
NOTE: Supplem	ental sheets in form	of lists, sketches,	or drawings m	ay be used, provide	d (1) size	is 8 ¹ / ₂ in. x 11 in	n., (2)
	ns 1 through 6 on th d at the top of this fo		eu on each she	et, and (3) each she	et is num	pered and the hi	imber of

Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the repair or replacement ASME Code, Section XI.
Type Code Symbol StampN/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed Pat Naugh ISI Engineer Date October 13 , 1999 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 S
and employed by H.S.B.I. & I.
Hartford, CT have inspected the components descriin this Owner's Report during the period 12/36/97 to 16/99 , and state
in this Owner's Report during the period 12/38/97 to 3/8/77 , and state
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in
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
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
inspection.
m na H
Inspector's Signature Commissions VA 424 R National Board, State, Province, and Endorsement
Date

Page 10 of 32 Serial No.: 99-59+ 601 Docket No.: 50-339

JWK 12/15/99

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 & Power Company</u> Name				1999			
en Allen, VA 23060	-		Sheet 1	of	1	· · · · · · · · · · · · · · · · · · ·	
			Unit: _ 2				
/A 23117			R/R 98-305 Work Order 398197-01				
Address				ation P.	O. No. Job No.,	etc.	
Work Performed By <u>Virginia Electric & Power Company</u> Name				Type Code Symbol Stamp N/A			
5000 Dominion Blvd., Glen Allen, VA 23060							
Address							
m <u>Chemical and Vol</u>	ume Control, Clas	ss 1				 	
on of Section XI Util	ized for Repairs o	r Replacemen	ts 19 <u>86</u>	la, <u>78, 8</u>	1, 83(R), 115	Code Case	
Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
Energy and Process Corp.	Heat # 402S5412	N/A	2-CH-PH-R-409.10	1997	Replacement	No	
Hydrostatic Pneu Other Pressure ental sheets 9in form is 1 through 6 on th	matic Nom psi n of lists, sketches	Test Temp	may be used, provide	d (1) siz	ze is 8 ¹ / ₂ in. x 11	in., (2) umber of	
	Name of Manufacturer Replaced nonqualif Hydrostatic Pressure ontal sheets 9in forms 1 through 6 on this part of the pressure ontal sheets 9in forms 1 through 6 on the part of the pressure ontal sheets 9in forms 1 through 6 on the part of the pressure ontal sheets 9in forms 1 through 6 on the part of the pressure ontal sheets 9in forms 1 through 6 on the part of the pressure ontal sheets 9in forms 1 through 6 on the part of the pressure ontal sheets 9in forms 1 through 6 on the part of the part of the pressure on the part of the	Name en Allen, VA 23060 Address ver Station Name 'A 23117 Address /irginia Electric & Power Company Name en Allen, VA 23060 Address m Chemical and Volume Control, Classifruction Code ANSI B31.7 on of Section XI Utilized for Repairs of mponents Repaired or Replaced and Information Manufacturer Name of Manufacturer Serial No. Energy and Heat # Process Corp. Heat # 402S5412 Replaced nonqualified shim plate. Hydrostatic Pressure Nome Nome Nome Nome Pressure Nome Nome Nome Nome Nome Nome Nome Nom	Name en Allen, VA 23060 Address wer Station Name (A 23117 Address /irginia Electric & Power Company Name en Allen, VA 23060 Address m Chemical and Volume Control, Class 1 struction Code ANSI B31.7 I969 Edition on of Section XI Utilized for Repairs or Replacement of Manufacturer Inponents Repaired or Replaced and Replacement of Manufacturer Serial No. No. Name of Manufacturer Serial No. No.	Name en Allen, VA 23060 Address wer Station Name (A 23117 Address Virginia Electric & Power Company Name en Allen, VA 23060 Address m Chemical and Volume Control, Class 1 struction Code ANSI B31.7 no of Section XI Utilized for Repairs or Replacements 1986 mponents Repaired or Replaced and Replacement Components Name of Manufacturer Serial No. No. National Board No. Identification	Name en Allen, VA 23060 Sheet1 of Address Name VA 23117 RAddress Repair Organization P. Virginia Electric & Power Company Name en Allen, VA 23060 Expiration Date Address Type Code Symbol Stamp Authorization No Expiration Date Address The Chemical and Volume Control, Class 1 Struction Code ANSI B31.7 1969 Edition, 1970 Addenda, 78, 8 on of Section XI Utilized for Repairs or Replacements 1986 Inponents Repaired or Replaced and Replacement Components Name of Manufacturer Serial No. Identification Built Energy and Heat # No. Identification Built Energy and Heat # No. Identification Built Process Corp. 402S5412 Replaced nonqualified shim plate. Hydrostatic Pressure	Name Address Wer Station Name NA Address The Chemical and Volume Control, Class 1 Struction Code ANSI B31.7 1969 Edition, 1970 Addenda, 78, 81, 83(R), 115 Non of Section XI Utilized for Repairs or Replacements 1986. Inponents Repaired or Replaced and Replacement Components Name of Manufacturer Serial No. No. No. No. No. Repaired, Replaced, or Replacement No. Repaired, Replaced, or Replacement No. Replaced nonqualified shim plate. Hydrostatic Pneumatic Nominal Operating Pressure Process Corp. No. Nominal Operating Pressure Process in form of lists, sketches, or drawings may be used, provided (1) size is 8 ¹ / ₂ in. x 11 is 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the next in the next is numbered and the next is numbered and the next in the next in the next is numbered and the next in t	

Remarks
Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI.
Agivie Code, decitor At.
Type Code Symbol Stamp N/A
Type ddde dyrribor olamp
Certificate of Authorization No. 7N/A Expiration Date N/A
Signed Path Naught ISI Engineer Date Soptember 29, 1999
Owner or Owner's Designee, Title
 CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of Virginia and employed by H.S.B.I. & I.
Hartford, CT have inspected the components described in this Owner's Report during the period 10/7/98 to 7/30/79 , and state that
in this Owner's Report during the period 10/7/98 to 7/30/79, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning 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 thi
inspection.
as as of
M. M. Hung Commissions VA 424-R Inspector's Signature Commissions National Board, State, Province, and Endorsements
Inspector s dignature
Date 9/30 19.99

Attachment 2 Page 11 of 32 Serial No.: 99-601 Docket No.: 50-339

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

1. Owner Virginia Elec	tric & Power Compa Nam		<u> </u>	Date December 14, 1	999				
5000 Dominion Blvd., G				Shoot 1	of	1			
5000 Dominion Biva., C	Address			Sheet	OI		••••		
2. Plant North Anna Po	ower Station			Unit:2					
	Nam	e							
P.O. Box 402, Mineral,	VA 23117 Address			R/R 99-031 Work Order 407140-01					
3. Work Performed By				Repair Organization P.O. No. Job No. , etc. Type Code Symbol StampN/A					
5. Work renormed by	Nam			Authorization No.	–				
5000 Dominion Blvd., G	5000 Dominion Blvd., Glen Allen, VA 23060 Address								
4. Identification of Syste	em <u>Safety Injection,</u>	Class 2							
				n,Addend	la,	(Code Case		
(b) Applicable Edi	tion of Section XI Uti	ilized for Repairs o	or Replacemen	its 19 <u>86</u>					
6. Identification of Co	mponents Repaired	or Replaced and	Renlacement (Components					
o. Identification of Oc	imponents repaired	or replaced and	neplacement c	Somponents					
			National			Repaired,	ASME Code Stamped		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Year Built	Replaced, or Replacement	(Yes or No)		
						į			
¾" Nuts	Mackson, Inc.	Ht # 33863PE	N/A	2-SI-MOV-2860B	1999	Replacement	No		
¾" Studs	Mackson, Inc.	Ht # 72635	N/A	2-SI-MOV-2860B	1999	Replacement	No		
7. Description of World	k Replaced body to h	connet bolting duri	ing repair for le	eak by.					
8. Tests Conducted:	Hydrostatic□ Pne	umatic □ Nom	inal Operating	Pressure					
2	Other Pressure	_							
									
information in iter	ental sheets in form ms 1 through 6 on the d at the top of this fo	is report is include	or drawings m ed on each she	ay be used, provided et, and (3) each shee	(1) size et is num	is $8^1/_2$ in. x 11 in bered and the nu	n., (2) umber of		

Remarks	Other conduction codes mis-SP-66 1966, m55-5P-61 1966 Applicable Manufacturer's Data Reports to be attached
	Applicable Manufacturer's Data Reports to 55 attashed
 	CONTRACT OF COMPLIANCE
	CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this replacement conforms to the rules of the repair or replacement
ASME Cod	e, Section XI.
Type Code	Symbol Stamp N/A
Certificate	of Authorization No. N/A Expiration Date N/A
	OA Main of TST Engineer Date October 5 , 1999
Signed	Part Maught ISI Engineer Date October 5 , 1999 Dwner or gwner's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
1. the unde	ersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stat
	77
<u>Hartf</u>	e of Virginia and employed by 11.01.01.1. have inspected the components described or d. CT have inspected the components described or d. CT have inspected the components described in the period. year's Report during the period.
in this Ov	vner's Report during the period 7/3// to 7/2 and taken corrective measures described in the
to the bes	t of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in the
Owner's F	Report in accordance with the requirements of the ASME Code, Section XI. The secondance with the requirements of the ASME Code, Section XI. The secondance with the requirements of the ASME Code, Section XI. The secondance with the requirements of the ASME Code, Section XI.
	described in this Owner's Report, Furthermore, neither the inspector nor his employ
examinati	ons and corrective measures described in this owners of the control of the contro
inspection	
00	Mark M. Huse Commissions VA 424 - R. Inspector's Signature Commissions National Board, State, Province, and Endorsements
	Inspector's Signature Oct 6 19 79
	0 4 4 99
Date	♥¢/ 6 19 //

Attachment 2 Page 12 of 32 Serial No.: 99-501

Serial No.: 99-594 661 Docket No.: 50-339 0WK

12/15/99

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

Owner <u>Virginia Elec</u>				Date October 18, 199	99				
	Nam	€.							
5000 Dominion Blvd., G	ilen Allen, VA 23060 Address			Sheet 1	of	1			
2. Plant North Anna Po	wer Station Name	e	······································	Unit: 2					
P.O. Box 402, Mineral, VA 23117 Address				R/R 99-057 Work Order 399491-01 Repair Organization P.O. No. Job No. , etc.					
Work Performed By <u>Virginia Electric & Power Company</u> Name				• • • • • • • • • • • • • • • • • • • •					
5000 Dominion Blvd., Glen Allen, VA 23060 Address				Expiration Date					
4. Identification of Syste	m Quench Spray Cla	ass 2		· · · · · · · · · · · · · · · · · · ·					
	nstruction Code <u>ANS</u> tion of Section XI Util			n,Addeno nts 19 <u>86</u>	la,	(Code Case		
6. Identification of Co	mponents 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)		
½" Stud	Mackson	Heat # 2126157	N/A	2-QS-MOV-201B	1997	Replacement	No		
½ Nut	Mackson	Heat # 34146PG	N/A	2-QS-MOV-201B	1999	Replacement	No		
		: 							
				•					
					<u> </u>				
7. Description of Work	Replaced bolting d	ue to boric acid o	n threads from	a packing leak.					
8. Tests Conducted:	Hydrostatic Pneu Other Pressure	_	inal Operating Test Temp	-					
information in iter	ental sheets in form ns 1 through 6 on thi d at the top of this fo	s report is include	or drawings m ed on each she	nay be used, provided eet, and (3) each shee	(1) size et is num	is $8^1/_2$ in. x 11 in bered and the nu	ı., (2) ımber of		

Remarks Applicable Manufacturer's Data Reports to be attached	
·	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this <u>replacement</u> correspond to repair or replacement.	nforms to the rules of the
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A Expiration Date N/A	
Signed Patry Naughta ISI Engineer Date October Owner of Owner's Designee, Title	<u>/8</u> , 19 <u>99</u>
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Ve	ssel Inspectors and the State
or Province of Virginia and employed by H.S.B.I. & I.	the components described
Hartford, CT have inspected in this Owner's Report during the period 6/1/89 to 10/19/8	2 and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrections.	ve 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	d or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the shall be liable in any manner for any personal injury or property damage or a loss of any kind arising	Inspector nor his employer
inspection,	
Inspector's Signature Commissions VA424-R National Board, State, Pro	ovince, and Endorsements
, mapassa a signature	
Date 10/19 19 89	
DateI9	

Page 13 of 32 Serial No.: 99-50+ 601 Docket No.: 50-339 ひいん

12/15/99

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

I. Owner <u>Virginia Elec</u>	ctric & Power Compa Nam		· ·	Date <u>June 10, 1999</u>	· .			
5000 Dominion Blvd., C	<u>Glen Allen, VA 2306</u> Address			Sheet 1	of	_1		
. Plant <u>North Anna Po</u>	ower Station Nam	Α		Unit: 2				
NO Day 100 Minaral				R/R 99-059 Work Order 411244-01				
CO. Box 402, Mineral,	VA 23117 Address					O. No. Job No. ,	etc.	
. Work Performed By	Virginia Electric & P	ower Company		Type Code Symbol Stamp				
	Nam			Authorization No.				
000 Dominion Blvd., 0			 	Expiration Date		N/A		
	Address							
Identification of Systematics	em <u>Safety Injection,</u>	Class 2						
Identification of Co	omponents Repaired	or Replaced and I	Replacement	Components		1	1	
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)	
¾" Hex Nuts	Mackson, Inc.	Heat # 98490	N/A	2-SI-R-57	1994	Replacement	No	
7. Description of Wor	k <u>Replaced dar</u>	naged hilti nuts.						
8. Tests Conducted:	Hydrostatic Pne Other Pressure	_	-					
information in ite	nental sheets in form ms 1 through 6 on the	is report is include						

Applicable Manufacturer's Data Reports to be attached	
	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this replacement conforms to the rul ASME Code, Section XI.	les of the
Type Code Symbol StampN/A	
Certificate of Authorization No. N/A Expiration Date N/A	
Signed Pate I Naught ISI Engineer Date June 10, 19 Owner or Dwner's Designee, Title	99
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and	d the Sta
or Province of Virginia and employed by H.S.B.I. & I.	
Hartford, CT have inspected the components in this Owner's Report during the period 6/1/89 to 6/16/99 , and	describ
in this Owner's Report during the period	l state th
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures descri	ibed in th
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, cond	
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his	s employ
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connecte	ed with t
inspection.	
Mah M. Hux Commissions VA 424-R AND Inspector's Signature National Board, State, Province, and Endors	
Increator's Signature Commissions National Board, State, Province, and Endors	sements
mspactor a dignature	
T	
Date June 16 19 99	

Attachment 2
Page 14 of 32
Serial No.: 99-501-
Docket No.: 50-339
July

12/15/99

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

Owner <u>Virginia Elec</u>	stric & Power Compa	n.,		Data Oatabar 4, 100	0				
1. Owner <u>virginia Elec</u>	Nam			Date October 4, 199	9				
5000 Dominion Blvd., G	Sien Allen VA 23060) <u>.</u>		Sheet1	of	2			
DOOD DOMMINGT DIVE., C	Address			Oneet	01				
2. Plant North Anna Po	ower Station			Unit:2					
	Nam				· · · · · · ·		·		
P.O. Box 402, Mineral,	VA 23117			R/R 99-110 Work Order 417388-01					
Address						O. No. Job No. ,	etc.		
Work Performed By <u>Virginia Electric & Power Company</u>				Type Code Symbol StampN/A					
Name				Authorization No					
5000 Dominion Blvd., Glen Allen, VA 23060 Address				Expiration Date	<u> </u>	N/A			
4. Identification of Syste	em Reactor Coolant,	Class 1							
5. (a) Applicable Cor	nstruction Code ANS	116.5	1968 Edition	n, Adden	da.	(Code Case		
	tion of Section XI Uti				,				
6. Identification of Co	mponents Repaired	or Replaced and	Replacement (Components					
<u></u>	T	T	T	1	т		 1		
							ASME		
			National			Repaired,	Code Stamped		
Name of	Name of	Manufacturer	Board	Other	Year	Replaced,	(Yes		
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)		
34" Studs	Mackson, Inc.	Ht. # 72635	N/A	2-RC-HCV-2535	1999	Replacement	No		
¾" Heavy Hex Nuts	Mackson, Inc.	Ht. # 33863PE	N/A	2-RC-HCV-2535	1999	Ponlacement	No		
74 Heavy Hex Nuis	Wackson, Inc.	HL # 33003FE	N/A	2-no-nov-2555	1999	Replacement	No		
			+		 				
					+				
			-						
7 Description of Worl	k Renlaced holting de	uring inspection o	fintonuale il	conals.					
7. Description of World	N Treplaced boiling di	uning mapection o	12N 10.	4-89	• • • • • • • • • • • • • • • • • • • •				
8. Tests Conducted:	Hydrostatic☐ Pneu	ımatic 🔲 Nom	inal Operating	Pressure					
	Other Pressure		psi Tes	t Temp	°F				
NOTE: Supplem	ental sheets in form	of lists, sketches.	or drawings m	ay be used, provided	d (1) size	is 8 ¹ / ₂ in. x 11 ir	n., (2)		
information in iter	ms 1 through 6 on th	is report is include							
sheets is recorde	ed at the top of this fo	rm.							

	Applicable Manufacturer's Data Reports to be attached
	·
	CERTIFICATE OF COMPLIANCE
We c	ertify that the statements made in the report are correct and this ${ t replacement}$ conforms to the rules of the
ASME Code, S	ection XI. repair or replacement
0 0	nbol Stamp N/A
Type Code Syn	nbol StampN/A
Certificate of A	authorization No. N/A Expiration Date N/A
Signed <u>Las</u>	ISI Engineer Date Celeber 4 , 1999
Owne	or Owner's Designee, 1 Itle
	CERTIFICATE OF INSERVICE INSPECTION
. Also condensation	ned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stat
r Province of	Virginia and employed by H.S.B.I. & I.
Hartford	, CThave inspected the components describe
n this Owner'	CT have inspected the components describes Report during the period $\frac{9/7/99}{}$ to $\frac{10/4/99}{}$ and state the
o the best of	my knowledge and belief, the Owner has performed examinations and taken corrective measures described in th
	t in accordance with the requirements of the ASME Code, Section XI.
	this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning th
	and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employed
	in any manner for any personal injury or property damage or a loss of any kind arising from or connected with th
inspection.	
mm	Frua Commissions VA 424 - R Inspector's Signature National Board, State, Province, and Endorsements
	Inspector's Signature National Board, State, Province, and Endorsements
Date	10/4 19.79

Attachment 2
Page 15 of 32
Serial No.: 99-561
Docket No.: 50-339

12/15/99

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

Owner <u>Virginia Elec</u>	. Owner Virginia Electric & Power Company				Date September 29, 1999				
	Nam	e							
5000 Dominion Blvd., G	ilen Allen, VA 23060 Address		;	Sheet1	of	_1			
2. Plant North Anna Po	wer Station Nam	e		Unit: 2					
P.O. Box 402, Mineral, VA 23117 Address				R/R 99-111 Work Order 399881-01 Repair Organization P.O. No. Job No. , etc.					
Work Performed By <u>Virginia Electric & Power Company</u> Name				Type Code Symbol Stamp N/A Authorization No. N/A					
5000 Dominion Blvd., G	5000 Dominion Blvd., Glen Allen, VA 23060 Address					N/A			
4. Identification of Syste	em <u>Main Steam, Clas</u>	ss 2							
 (a) Applicable Cor (b) Applicable Edit 	nstruction Code <u>ANS</u> tion of Section XI Uti	l B16.5 lized for Repairs o	19 <u>68</u> Edition or Replacement	n,Addend ts 19 <u>86</u> Edition	da,	(Code Case		
6. Identification of Co	mponents Repaired	or Replaced and	Replacement C	Components					
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)		
3" Gate Valve	Henry Vogt Machine Co.	N/A	N/A	2-MS-258	1970	Repair	No		
7. Description of Work	K Machined 0.015" of	if of bonnet at the	body to bonne	t surface to restore s	eating su	ırface.	· · · · · · · · · · · · · · · · · · ·		
8. Tests Conducted:	• —	_		_					
	Other Pressure	ps	i lest lemp	*F					
information in iter	ental sheets in form ns 1 through 6 on th d at the top of this fo	is report is include	or drawings maded on each she	ay be used, provided et, and (3) each shee	(1) size et is num	is $8^1/_2$ in. x 11 in bered and the nu	n., (2) umber of		

Attachment 2
Page 16 of 32
Serial No.: 99-59+
Docket No.: 50-339

UK

12/15/99

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

P.O. Box 402, Mineral, V	Address rer Station Nam)		Sheet1	of	1	
2. Plant North Anna Pow P.O. Box 402, Mineral, V	Address rer Station Nam			Sheet1	of	1	
P.O. Box 402, Mineral, V	er Station Nam					1 1 1 111	
P.O. Box 402, Mineral, V	Nam	Plant North Anna Power Station Name					
	A 23117			\ <u>-</u>			
Mode Dodomod Rel	Addessa			R/R 99-113 Work			-1-
	Address			•		O. No. Job No. ,	etc.
B. Work Performed By <u>Virginia Electric & Power Company</u> Name				Type Code Symbol Authorization No.			
6000 Dominion Blvd., Gle				Expiration Date			
Identification of System	Address						
. Identification of System						.,	
 (a) Applicable Cons (b) Applicable Edition 	truction Code ASM	IE III	19 <u>68</u> Edition	n <u>, 70</u> Adder	nda,		Code Cas
(b) Applicable Luttic	ar or occion ar on	iized for Hepairs of	Пераселіен	its 19 <u>00 </u> Luition			
i. Identification of Com	nonente Beneired	or Banlaced and B	Paniacament (Componente			
. Identification of con-	iponenta riepanea	or rieplaced and r					
							ASME
							Code
Name of	Name of M	Manufacturer	National Board	Other	Year	Repaired, Replaced,	Stamped (Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)
Main Steam Safeti	Creak	N88473-40-0098	N/A	2-MS-SV-201B	1998	Deningeneral	No
Main Steam Safety Valve Disc Insert	Crosby	1466473-40-0096	N/A	2-1015-30-2016	1990	Replacement	No
	Crosby	N/A	N/A	2-MS-SV-201B	1972	Repair	No
Valve Spring Washers	<u></u>				1	<u> </u>	
Main Steam Safety Valve Nozzle	Crosby	N/A	N/A	2-MS-SV-201B	1972	Repair	No
							
							
		<u> </u>					•
7. Description of Work I	Machined spring w	ashers and nozzle	to restore des	sian dimensions. Re	nlaced di	sc insert due to r	normal
wear.	Machine oping W	donero dria riozzio	10 1001010 000	ngir dimendione. Ho	piacea ai	SO INICON GUO TO I	<u>omu</u>
0 Table 0 1 1 1 1 1		one sales promo his in	(a.a.) Oa ''				
8. Tests Conducted: H	· —	_		_			
C	otner∐ Pressure	psi	rest femp.	°F			
						4	
NOTE: Supplement	ntal sheets in form	of lists, sketches,	or drawings m	eay be used, provide eet, and (3) each she	d (1) size	is 8 ¹ / ₂ in. x 11 in	n., (2)

Remark	Applicable Manufacturer's Data Reports to be attached
	CERTIFICATE OF COMPLIANCE repair
ASME (We certify that the statements made in the report are correct and this replacement conforms to the rules of the repair or replacement.
Гуре Со	ide Symbol Stamp N/A
Certific	ate of Authorization No. N/A Expiration Date N/A
Signed_	Expiration Date N/A Expiration Date N/A Pak Nacytta ISI Engineer Date December 2 , 1999 Owner of Owner's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
or Provi	ndersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
Hart in this	ford, CT have inspected the components described have inspected have inspected the components described have inspected ha
to the I	est of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in thi
	Report in accordance with the requirements of the ASME Code, Section XI.
examin	igning this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the ations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employe liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with thi
inspecti	on.
	Marf M. Hura Commissions VA 42 4-12 Inspector's Signature National Board, State, Province, and Endorsements
Date	

Attachment 2
Page 17 of 32
Serial No.: 99-501
Docket No.: 50-339
JWK

12/15/99

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

. Owner <u>Virginia Ele</u>				Date October 14, 19	99		
	Nam	ne					
000 Dominion Blvd., 0	Glen Allen, VA 2306 Address			Sheet1	of	1	······································
. Plant North Anna Pe				Unit: 2			
	Nam	ne					
.O. Box 402, Mineral,	VA 23117 Address			R/R 99-114 Work (Repair Organ		609-01 O. No. Job No. ,	etc.
. Work Performed By		Type Code Symbol					
0001111 00114		Authorization No					
800 Highway 20 Wes	t, Huntsville, AL 3580 Address			Expiration Date		<u>N/A</u>	
. Identification of Syst	em <u>Main Steam, Cla</u>	ss 2					
. (a) Applicable Co	nstruction Code ASA	/E III	19 <u>68</u> Editio	n, <u>70</u> Adden	da,		Code Cas
(b) Applicable Edi	tion of Section XI Ut	ilized for Repairs o	r Replacemer	nts 19 <u>86</u> Edition			
. Identification of Co	omponents Repaired	or Replaced and F	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)
Adjusting Bolt	Crosby	N88479-35-0037	N/A	2-MS-SV-205B	1998	Replacement	No
Adjusting Bolt Nut	Crosby	Heat # 681A129	N/A	2-MS-SV-205B	1998	Replacement	No
Main Steam Safety Valve Spring Washers	Crosby	N/A	N/A	2-MS-SV-205B	1972	Repair	No
			wit.				
7. Description of Wor	k.Replaced adjusting	g bolt and nut found	d defective du	ring disassembly. Ma	achined s	pring washer to	restore
desgin.							
8. Tests Conducted:	Hydrostatic ☐ Pne	umatic 🔲 Nomi	nal Operating				
	Other☐ Pressure	psi	Test Temp.	°F			
NOTE: Supplem	ental sheets in form ms 1 through 6 on th	of lists, sketches,	or drawings m	ay be used, provide	d (1) size	e is 8 ¹ / ₂ in. x 11 ir	n., (2)

Remarks	Change in adjusting bolt material justified by PTE NVL 00003-
	Applicable Manufacturer's Data Reports to be attached
	•
	CERTIFICATE OF COMPLIANCE repair
We	certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the
ASME Code,	rapair or replacement
	37 / A
Type Code Sy	mbol StampN/A
Carrificate of	Authorization No. N/A Expiration Date N/A
Sei tiricate Oi	Authorization No
Signed	Pat 1 Naugtt ISI Engineer Date October 14 , 1999
Owi	ner of Owner's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
the undersi	gned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of	forange of the state of t
Hartfor	d, CT have inspected the components described
	r's Report during the period 9/19/99 to 16/26/95, and state that
	f my knowledge and belief, the Owner has performed examinations and taken corrective measures described in thi
	ort in accordance with the requirements of the ASME Code, Section XI.
	g 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 employe e in any manner for any personal injury or property damage or a loss of any kind arising from or connected with thi
snan be nable inspection.	s in any mainter for any personal injury of property damage of a loss of any find a long from the comments of the
mspection.	
m	Inspector's Signature Commissions VA 424-R National Board, State, Province, and Endorsements
	Inspector's Signature National Board, State, Province, and Endorsements
Date	10/20 19 99

Page 18 of 32 Serial No.: 99-501 Serial No.: 99-501 601 Docket No.: 50-339 JWK

12/15/99

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 Elec</u>		Date October 6, 1999	9					
5000 Dominion Blvd., G	Nam <u>ilen Allen, VA 23060</u> Address)		Sheet 1	of	1		
2. Plant North Anna Po	ower Station Nam	e	· · · · · · · · · · · · · · · · · · ·	Unit: 2				
P.O. Box 402, Mineral,	VA 23117 Address			R/R 99-115 Work Order 402606-01				
Work Performed By <u>Virginia Electric & Power Company</u>				Repair Organization P.O. No. Job No. , etc. Type Code Symbol StampN/A				
-	Nam	e	1	Authorization No		N/A		
5000 Dominion Blvd., G	Address)	-	Expiration Date		N/A		
4. Identification of Syste	em <u>Main Steam, Clas</u>	ss 2		· · · · · · · · · · · · · · · · · · ·				
5. (a) Applicable Cor (b) Applicable Edit	nstruction Code <u>ASM</u> tion of Section XI Uti	E III lized for Repairs o	19 <u>68</u> Edition or Replacemen	n, <u>70</u> Addend ts 19 <u>86</u> Edition	da,		Code Case	
6. Identification of Co	mponents Repaired	or Replaced and F	Replacement C	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)	
Main Steam Safety Valve Disc Insert	Crosby	N88473-40-0100	N/A	2-MS-SV-204B	1998	Replacement	No	
Main Steam Safety Valve Spring Washers	Crosby	N/A	N/A	2-MS-SV-204B	1972	Repair	No	
							<u> </u>	
7. Description of Work	k Machined spring wa	ashers to restore o	design dimensi	ons. Replaced disc i	nsert due	e to normal wear	·	
8. Tests Conducted:	Hydrostatic Pneu	 -						
information in iter	ental sheets in form ns 1 through 6 on thi d at the top of this fo	is report is include	or drawings made on each she	ay be used, provided et, and (3) each shee	(1) size et is num	e is $8^1/_2$ in. x 11 in bered and the no	1., (2) umber of	

Remarks	
Applicable Manufacturer's Data Reports to be attached	
•	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this replacement conforms to the rules of	the
ASME Code, Section XI. repair or replacement	
Type Code Symbol Stamp N/A	
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A Expiration Date N/A	
Signed Patt Naugtt ISI Engineer Date Colober 6 , 1999	
Owner or Owner's Designee, 1 Itie	
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 Virginia and employed by H.S.B.I. & I.	
	cribe
Hartford, CT have inspected the components design this Owner's Report during the period 9/19/99 to 10/6/99, and state	e the
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described	n th
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	ng th
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 wit	h th
inspection.	
m m H	
M. M. Huu Commissions VA 424 R Inspector's Signature Commissions National Board, State, Province, and Endorsement	nts .
Date 10/6 19 99	
Date19	

Attachment 2 Page 19 of 32 Serial No.: 99-501 Docket No.: 50-339 JW/C

12/15/99

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

Owner <u>Virginia Elec</u>	etric & Power Compa	nγ		Date September 29,	1999		
	Nam	е	_				
5000 Dominion Blvd., G	Glen Allen, VA 23060)		Sheet1	of	1	
	Address						
2. Plant North Anna Po	ower Station			Unit: 2			
	Nam	e					
P.O. Box 402, Mineral,	VA 23117			R/R 99-116 Work C	order 402	600-01	
	Address	· · · · · · · · · · · · · · · · · · ·				O. No. Job No. ,	etc.
3. Work Performed By	. Work Performed By Virginia Electric & Power Company				Stamp	N/A	
•	Nam			Type Code Symbol Stamp N/A Authorization No. N/A			
5000 Dominion Blvd., Glen Allen, VA 23060				Expiration Date		N/A	
	Address						
4. Identification of Syste	em <u>Main Steam, Clas</u>	ss 2					
(b) Applicable Edi	nstruction Code <u>ASM</u> tion of Section XI Uti omponents Repaired	lized for Repairs o	r Replacemen		da,		Code Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Main Steam Safety Valve	Crosby	N55044-00-0020	N/A	2-MS-SV-202B	1972	Repair	Yes
7. Description of Wor	k <u>Machined spring</u> w	ashers to restore o	design dimens	ions.]		
	- -			_			
8. Tests Conducted:	-			_			
	Other Pressure	psi	Test Temp	°F			
information in ite		is report is include		ay be used, provided et, and (3) each she			

CERTIFICATE OF COMPLIANCE CAPOLE GAR 16 4-95 We certify that the statements made in the report are correct and this Tep-Incompany to the rules of the
We certify that the statements made in the report are correct and this FEDIACOMENT conforms to the rules of the
We certify that the statements made in the report are correct and this Feplacement conforms to the rules of the
We certify that the statements made in the report are correct and this replacement conforms to the rules of the
We certify that the statements made in the report are correct and this replacement conforms to the rules of the
We certify that the statements made in the report are correct and this replacement conforms to the rules of the
We certify that the statements made in the report are correct and this Feplacement conforms to the rules of the
We certify that the statements made in the report are correct and this replacement conforms to the rules of the
We certify that the statements made in the report are correct and this replacement conforms to the rules of the
We certify that the statements made in the report are correct and this FOD LOCATION Conforms to the rules of the
repair or replacement
ME Code, Section XI.
ne Code Symbol Stamp N/A
pe Code Symbol Stamp N/A
tificate of Authorization No. N/A Expiration Date N/A
ned Park July 181 Engineer Date September 29, 1999
Owner/or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
he undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stat
Province of <u>Virginia</u> and employed by <u>H.S.B.I. & I.</u> artford, CThave jnspected the components describe
have inspected the components describe this Owner's Report during the period 9/19/99 to 10/2/99, and state the
this Owner's Report during the period, and state the the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in the
the best of my knowledge and belief, the Owner has performed examinations and taken contestive measures associated 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
minations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employed. If be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with the
pection.
MM Struc Commissions VA 42 4-R Inspector's Signature National Board, State, Province, and Endorsements
Inspector's Signature National Board, State, Province, and Endorsements
t t t

Page 20 of 32 Serial No.: 99-58+ 601 Docket No.: 50-339 500 C

12/15/99

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

							
Owner <u>Virginia Elec</u>				Date <u>September 29,</u>	1999		
	Name	9					
5000 Dominion Blvd., G	ilen Allen, VA 23060 Address)		Sheet1	of	1	
2. Plant North Anna Po				Unit: 2			
	Name	Ð					
P.O. Box 402, Mineral,	VA 23117 Address			R/R 99-117 Work C Repair Organi		2603-01 O. No. Job No. ,	etc.
3. Work Performed By		Type Code Symbol S	Stamp _	N/A			
	Authorization No						
5000 Dominion Blvd., G	ilen Allen, VA 23060 Address)	· · · · · · · · · · · · · · · · · · ·	Expiration Date		N/A	
4. Identification of Syste	m <u>Main Steam, Clas</u>	s 2	······				
	nstruction Code <u>ASM</u> tion of Section XI Util			n <u>, 1970</u> Addend ts 19 <u>86</u> Edition	da,		Code Case
6. Identification of Co	mponents Repaired	or Replaced and F	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)
Main Steam Safety Valve	Crosby	N55044-00-0023	N/A	2-MS-SV-203B	1972	Repair	Yes
							1
	Hydrostatic☐ Pneu Other☐ Pressure	matic Nomi	inal Operating Test Temp	Pressure °F	(4) =:		
information in iter	ental sheets in form ns 1 through 6 on thi d at the top of this fo	s report is include	or drawings m d on each she	ay be used, provided et, and (3) each shee	(1) SIZE et is num	θ is 8 $\frac{7}{2}$ in. x 11 in the number of and the number of the numb	n., (2) umber of

•	Applicable Manufacturer's Data Reports to be attached
	•
	CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE
•••	ertify that the statements made in the report are correct and this replacement conforms to the rules of the
	repair or replacement
ASME Code, S	ection XI.
Type Code Syr	nbol StampN/A
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Certificate of A	Suthorization No. N/A Expiration Date N/A
	ISI Engineer Date Soptember 29, 1999 er or Owner's Designee, Title
Signed	Naught ISI Engineer Date September 29, 1999
Own	er or Owner's Designee, Title
	· CERTIFICATE OF INSERVICE INSPECTION
l, the undersig	ned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stat
or Province of	Virginia and employed by H.S.B.I. & I.
Hartford	have inspected the components described sometimes and state that the components described sometimes are sometimes. The components described sometimes are sometimes are sometimes.
in this Owner	's Report during the period, and state the
	my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
	t in accordance with the requirements of the ASME Code, Section XI.
	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 any manner for any personal injury or property damage or a loss of any kind arising from or connected with th
	in any mainter for any personal injury of property damage of a loss of any time allering from the democratic
inspection.	
m	Commissions VA 424 - R National Board, State, Province, and Endorsements
	Inspector's Signature National Board, State, Province, and Endorsements
Date	10/2 19 99

Page 21 of 32 Serial No.: 99-581 LOI Docket No.: 50-339 JUK

12/15/99

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

				D-1- O-1-1			
1. Owner Virginia Elec	tric & Power Compa Nan			Date October 18, 19	399		
5000 Description Blad C				Chart 1	-4		
5000 Dominion Blvd., G	Address			Sheet 1	. 01		
2. Plant North Anna Po	ower Station			Unit: 2			
z. Hant Hola Zana Te	Nan	ne		5.m. <u>- E</u>			
P.O. Box 402, Mineral,	VA 23117			R/R 99-119 Work 0	Order 402	572-02	
	Address	3		Repair Organ	ization P	.O. No. Job No. ,	etc.
Work Performed By Virginia Electric & Power Company				Type Code Symbol	Stamp _	N/A	
Name				Authorization No.			
5000 Dominion Blvd., G	ilen Allen, VA 2306 Address			Expiration Date		N/A	
4. Identification of Syste							
•							
				n, 1970 Adder	nda, <u>78. 8</u>	1, 83(R), 115	Code Case
(b) Applicable Edi	tion of Section XI U	unzed for Hepairs o	r n eplacemei	115 19 <u>86 E</u> dition			
6. Identification of Co	mponents Repaired	or Poplaced and I	Panlagament :	Componento			
o. Identification of Co	imponents riepanet	i or neplaced and i	neplacement	Components			
							40145
					-		ASME Code
Name of	Name of	Manufacturer	National Board	Other	Year	Repaired, Replaced,	Stamped (Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	or Replacement	or No)
		}					
3" Check Valve	Crane	Serial #	N/A	2-MS-121	1993	Replacement	No
		C2298					
3" Pipe	Consolidated Power Supply	Ht. # Y67155	N/A	2-MS-121	1998	Replacement	No
3" Elbow	Dubose National Energy Services	Ht. # F011	N/A	2-MS-121	1999	Replacement	No
¼" Plate	Dubose National	Ht. #	N/A	2-SHP-RH-136	1998	Replacement	No
74 Fidie	Energy Services	411A9761	IN/A	2-301-001-100	1990	Replacement	NO
					+	1	
					1		
					<u>.</u>		
7. Description of Worl	k Poplaced valve fo	und to be unaccent	table during of	anak valvo inencetio	n Installa	d shim plate to r	netoro
design.	N <u>neplaced valve lo</u>	und to be unaccept	lable duffing ci	leck valve inspection	i. ilistano	u shirii piate to fi	<u> </u>
8. Tests Conducted:	_		-	-			
	Other Pressure	psi	Test Temp.	°F			
NOTE: Supplem	ental sheets in form	of lists, sketches,	or drawings n	nay be used, provide	d (1) size	e is 8 ¹ / ₂ in. x 11 i	n., (2)
	ms 1 through 6 on t d at the top of this f		eu on each sh	eet, and (3) each she	et is nun	ibereo ano the n	urnber of

Remarks Code Case N-416-1 was	s invoked for this replacement.
App	plicable Manufacturer's Data Reports to be attached
Vlant 1550e 1999 - 2583 w	itten for shim plate not included in
repair and replacement progra	hm.
	CERTIFICATE OF COMPLIANCE
	in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI.	repair or replacement
Type Code Symbol StampN/A	
	27.14
Certificate of Authorization No. N/A	Expiration Date N/A
01111 #	ISI Engineer Date Gotoba 18 , 19 99
Signed Path Naugh	ISI Engineer Date O Proce 10 , 19 77
Owner or Owner 1 Doughest, Title	,
·	RTIFICATE OF INSERVICE INSPECTION
	issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of Virginia and	employed by H.S.B.I. & I. of
Hartford, CT	have inspected the components described
in this Owner's Report during the period	have inspected the components described 9/22/99 to 10/19/99 , and state that
to the best of my knowledge and belief, the	Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the require	
	pector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures descri	bed in this Owner's Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any persona	l injury or property damage or a loss of any kind arising from or connected with this
inspection.	
M. M. Huse	Commissions VA424-72 National Board, State, Province, and Endorsements
Inspector's Signature	National Board, State, Floringe, and Endorsaliants
. /	
Date	<i>ī</i>
<u> </u>	

Attachment 2
Page 22 of 32 601
Serial No.: 99-59+ UWK
Docket No.: 50-339 12/15/99

	,						
1. Owner Virginia Elec			<u>.</u>	Date October 6, 1999	9		
	Nam-	-		0 1 1 4			
5000 Dominion Blvd., G	ilen Allen, VA 23060 Address)		Sheet1	of	_1	
2. Plant North Anna Po	wer Station			Unit: 2		····	
	Nam	е					
P.O. Box 402, Mineral,	VA 23117 Address			R/R 99-122 Work C		2651-01 O. No. Job No.	etc.
3. Work Performed By				Type Code Symbol S			
-	Nam			Authorization No		N/A	
7800 Highway 20 West	<u>Hunstsville, AL 358</u> Address	06		Expiration Date	<u> </u>	N/A	
4. Identification of Syste	m Reactor Coolant,	Class 1		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
5. (a) Applicable Cor (b) Applicable Edit	nstruction Code <u>ASM</u> tion of Section XI Util	E III lized for Repairs o	19 <u>68</u> Edition or Replacemen	n,Addend ts 19 <u>86_</u> Edition	da,		Code Case
6. Identification of Co	mponents Repaired	or Replaced and I	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)
Spring and Washer Assembly	Dresser	Serial # ADA75	N/A	2-RC-SV-2551A	1999	Replacement	No
7. Description of Work	k Replaced spring du	ue to failure of spri	ng rate test.				
8. Tests Conducted:	Hydrostatic T Pne	ımatic □ Nom	inal Operating	Pressure			
	Other Pressure						
NOTE: Supplement information in iter	ental sheets in form	of lists, sketches, is report is include	or drawings m	ay be used, provided	l (1) size et is num	e is 8 ¹ / ₂ in. x 11 in in the red and the r	in., (2) number of

Remarks	
·	Applicable Manufacturer's Data Reports to be attached
	· · ·
	CERTIFICATE OF COMPLIANCE
We certify that the statements ASME Code, Section XI.	s made in the report are correct and this <u>replacement</u> conforms to the rules of the repair or replacement
Type Code Symbol StampN/A	
Certificate of Authorization No. N/A	Expiration Date N/A
,	ISI Engineer Date Catabea 6 , 1999
	CERTIFICATE OF INSERVICE INSPECTION
, the undersigned, holding a valid comn	mission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta
or Province of Virginia	and employed by_H.S.B.I. & I.
Hartford, CT	have inspected the components describe riod 9/21/99 to /0/6/95 , and state the
in this Owner's Report during the per	iod 7/2// to 70/6// and state the
	of, the Owner has performed examinations and taken corrective measures described in the
	requirements of the ASME Code, Section XI.
	he Inspector nor his employer makes any warranty, expressed or implied, concerning the
	described in this Owner's Report. Furthermore, neither the Inspector nor his employ ersonal injury or property damage or a loss of any kind arising from or connected with the
inspection,	
mm then	VA USUS P
Inspector's Signature	Commissions VA 424-R National Board, State, Province, and Endorsements
/.	
Date10/61	19 <i>99</i>

Attachment 2

Page 23 of 32 Serial No.: 99-504 601 Docket No.: 50-339 July

12/15/99

1. Owner <u>Virginia Elec</u>	tric & Power Compar Name			Date October 6, 1999	9		
5000 Dominion Blvd., G	ilen Allen, VA 23060 Address	- 		Sheet1	of	1	
2. Plant North Anna Po	wer Station Name			Unit: _ 2			
P.O. Box 402, Mineral,	VA 23117 Address			R/R 99-123 Work C Repair Organi		652-01 O. No. Job No. ,	etc.
3. Work Performed By	Wyle Laboratories Name	9		Type Code Symbol S Authorization No	-		
7800 Highway 20 West,				Expiration Date		N/A	
4. Identification of Syste	em Reactor Coolant,	Class 1		· · · · · · · · · · · · · · · · · · ·			
5. (a) Applicable Cor (b) Applicable Edit	nstruction Code <u>ASM</u> tion of Section XI Util	E III ized for Repairs o	19 <u>68</u> Edition or Replacemen	n,Addenots 19 <u>86_</u> Edition	da,		Code Case
6. Identification of Co	mponents 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)
Spring and Washer Assembly	Dresser	Serial # ADA74	N/A	2-RC-SV-2551B	1999	Replacement	No
7. Description of Work	k <u>Replaced spring du</u>	e to failure of spr	ing rate test.			•	
8. Tests Conducted:	Hydrostatic Pneu						
information in iter	ental sheets in form ms 1 through 6 on the d at the top of this fo	s report is include	or drawings m ed on each she	ay be used, provided et, and (3) each she	l (1) size et is num	e is $8^1/_2$ in. x 11 inbered and the n	n., (2) umber of

Remar	ks
	Applicable Manufacturer's Data Reports to be attached
	CERTIFICATE OF COMPLIANCE
ASME	We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the repair or replacement. Code, Section XI.
	Code Symbol StampN/A
Certifi	cate of Authorization No. N/A Expiration Date N/A
Signec	01111
	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 vince of Virginiaand employed by H.S.B.I. & Io
Har	tford, CT have inspected the components describe solver's Report during the period 7/21/79 to 10/6/59, and state the
in thi	s Owner's Report during the period 7/2//79 to 10/6/79, and state that
to the	best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in th
	r's Report in accordance with the requirements of the ASME Code, Section XI.
Ву	signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
exami	nations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employed be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with the
inspec	etion.
	Inspector's Signature Commissions VAYX4-R National Board, State, Province, and Endorsements
	Inspector's Signature National Board, State, Province, and Endorsements
ъ.	10/6/ 19 99
Date_	

Attachment 2
Page 24 of 32
Serial No.: 99-594 601
Docket No.: 50-339 JWK

1. Owner <u>Virginia Elec</u>				Date October 14, 19	999			
	Nam	e						
5000 Dominion Blvd., C	Glen Allen, VA 23060 Address			Sheet 1	of	1		
2. Plant North Anna Po				Unit: 2				
	Nam	е						
P.O. Box 402, Mineral,				R/R 99-127 Work	Order 402	2598-01 .O. No. Job No. ,	-1-	
	Address							
Work Performed By	Virginia Electric & P			Type Code Symbol				
5000 Dominion Blvd., 0	Glen Allen, VA 2306)		Authorization No. N/A Expiration Date N/A				
	Address							
4. Identification of Syst	em <u>Main Steam, Cla</u>	ss 2						
5. (a) Applicable Co	nstruction Code ASM	4F III	1968 Editio	on, <u>70</u> Adder	nda		Code Cas	
	ition of Section XI Uti				iua,		Oode Oas	
		•						
6. Identification of Co	omponents Repaired	or Replaced and F	Replacement	Components				
· · · · · · · · · · · · · · · · · · ·	т	T		1		-		
							ASME	
			National			Repaired,	Code	
Name of	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Year Built	Replaced, or Replacement	(Yes or No)	
Component	Wallulacture	Genalivo.	140.	Identification	Built	or rieplacement	01110)	
							ļ	
Main Steam Safety	Crosby	N88473-40-0099	N/A	2-MS-SV-201C	1998	Replacement	No.	
Valve Disc								
Main Steam Safety	Crosby	N/A	N/A	2-MS-SV-201C	1972	Repair	No	
Valve Spring Washers								
Main Steam Safety Valve Nozzle	Crosby	N/A	N/A	2-MS-SV-201C	1972	Repair	No	
Valve 1402216					<u> </u>			
								
		<u></u>	<u> </u>	_	<u> </u>	 		
7 Description of Mon	d Machinad apring u	cohore and navele	to rootoro do	oian dimensione De	nlaand di	no incort due to l	normal	
Description of Wor wear.	k <u>Machined spring w</u>	asners and nozzie	to restore de	isign aimensions. He	piaceu ui	sc insert due to i	<u>ioimai</u>	
8. Tests Conducted:	•	_	inal Operating	-				
	Other Pressure	psi	Test Temp.	°F				
				nay be used, provide		4		

TIFICATE OF COMPLIANCE repair \$ ne report are correct and this replacement conforms to the rules of the repair or replacement Expiration Date N/A
ne report are correct and this replacement conforms to the rules of the repair or replacement
ne report are correct and this replacement conforms to the rules of the repair or replacement
ne report are correct and this replacement conforms to the rules of the repair or replacement
5 N/A
Expiration Date N/A
ISI Engineer Date December 2 , 1999
FICATE OF INSERVICE INSPECTION and by the National Board of Boiler and Pressure Vessel Inspectors and the State loyed by H.S.B.I. & I.
have inspected the components described and state that the performed examinations and taken corrective measures described in this tender to the ASME Code, Section XI.
r nor his employer makes any warranty, expressed or implied, concerning the in this Owner's Report. Furthermore, neither the Inspector nor his employe by or property damage or a loss of any kind arising from or connected with thi
i

Attachment 2
Page 25 of 32
Serial No.: 99-504
Docket No.: 50-339

12/15/99

	ectric & Power Compa	ny		Date October 6, 199	9		
	Nam	e					
5000 Dominion Blvd.,	Glen Allen, VA 23060 Address			Sheet 1	of	1	
2. Plant North Anna P	ower Station Nam	e		Unit:2			
P.O. Box 402, Mineral				R/R 99-128 Work (2607-01 O. No. Job No. ,	oto
3. Work Performed By				Type Code Symbol			
•	Nam			Authorization No			
5000 Dominion Blvd.,	Glen Allen, VA 23060 Address			Expiration Date		N/A	
1. Identification of Syst	tem <u>Main Steam, Cla</u>	ss 2					
(b) Applicable Ed	onstruction Code <u>ASN</u> dition of Section XI Uti components Repaired	ilized for Repairs o	r Replaceme	nts 19 <u>86</u> Edition	da,		Code Cas
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)
Main Steam Safety Valve Disc Insert	Crosby	N88473-40-0101	N/A	2-MS-SV-204C	1998	Replacement	No
· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·				
7. Description of Wo	rk <u>Replaced disc inse</u>			g Pressure		1	1

Remarks	
	Applicable Manufacturer's Data Reports to be attached
	CERTIFICATE OF COMPLIANCE
We ce ASME Code, Sec	rtify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the repair or replacement
Type Code Syml	pol StampN/A
Certificate of Au	thorization No. N/A Expiration Date N/A
Signed Owner	thorization No. N/A Expiration Date 1774 L Naught ISI Engineer Date Cotto 6 , 1999 or Owner's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
I the undersians	ed, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Stat
or Province of	Virginia and employed by H.S.B.I. & I.
Hartford.	CT have inspected the components describe
in this Owner's	CT have inspected the components describe Report during the period $9/22/89$ to $10/6/89$, and state the
to the best of m	by knowledge and belief, the Owner has performed examinations and taken corrective measures described in the
	in accordance with the requirements of the ASME Code, Section XI.
	his certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
	d 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.	
s	ha H
////.	M. Hace Commissions VA 424-R Inspector's Signature National Board, State, Province, and Endorsements
	Inspector 5 Signature (4atronal Board, State, 1 Tokince, and Endorsembles)
Date	/0/6 19.85

Attachment 2

Page 26 of 32 Serial No.: 99-507 601 Docket No.: 50-339 JUK

12/15/99

1. Owner Virginia Electric & Power Company Name 5000 Dominion Bivd., Glen Allen, VA 23060 Address 2. Plant North Anna Power Station Name P.O. Box 402. Mineral, VA 23117 Address 3. Work Performed By <u>Virginia Electric & Power Company</u> Name Name Name Name Address 3. Work Performed By <u>Virginia Electric & Power Company</u> Name Name Address 4. Identification of System <u>Main Steam. Class 2</u> 5. (a) Applicable Construction Code <u>ASME III</u> (b) Applicable Construction XI Utilized for Repairs or Replacements 1986. Edition 6. Identification of Components Repaired or Replaced and Replacement Components Name of Name of Namufacturer Serial No. Name of Name of Namufacturer Serial No. Name of Namufacturer Serial No. National Board Coher Year Repaired, Replaced, Replacement No. Name of Namufacturer Serial No. No. National Other Year Repaired, Replaced, Replacement No. No. No. No. No. No. No. No.						_		
Serial No. Sheet 1 of 1	Owner <u>Virginia Elec</u>				Date <u>October 6, 199</u>	9		
Address 2. Plant North Anna Power Station Name P.O. Box 402, Mineral, VA 23117 Address 3. Work Performed By Virginia Electric & Power Company Name Name Authorization P.O. No. Job No., etc. 1. Pye Code Symbol Stamp N/A Authorization No. Replaced III 1968 Edition, 70 Addrenda, Code Case (b) Applicable Construction Code ASME III 1968 Edition, 70 Addrenda, Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements Asme of Name of Manufacturer Serial No. No. Manufacturer Board Component Name of Manufacturer Serial No. Main Steam Safety Valve Disc Insert No. Main Steam Safety Valve Disc Insert No. Description of Work Replaced disc Insert due to normal wear. 8. Tests Conducted: Hydrostatic Pneumatic Normal Normal Operating Pressure Other Pressure Ppi Test Temp. P.O. Box 402, Mineral Vox 2010-0. No. Job No., etc. RRP 99-129 Work Order 402610-01 RRP 99-12	5000 Daminian Blad C				Shoot 1	of	4	
Name P.O. Box 402, Mineral, VA 23117 Address Repair Organization P.O. No. Job No., etc. Repair Organization P.O. No. Job No., etc. Type Code Symbol Stamp N/A Authorization No. N/A Score Dominion Blvd., Glen Allen, VA 23060 Address I. Identification of System Main Steam, Class 2 S. (a) Applicable Construction Code ASME III Applicable Edition of Section XI Utilized for Repairs or Replacements 1986 Edition I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced, Tyear Replaced, Ty	5000 Dominion Biva., G				Sneet	OI	<u> </u>	
Name P.O. Box 402, Mineral, VA 23117 Address Repair Organization P.O. No. Job No., etc. Repair Organization P.O. No. Job No., etc. Type Code Symbol Stamp N/A Authorization No. N/A Score Dominion Blvd., Glen Allen, VA 23060 Address I. Identification of System Main Steam, Class 2 S. (a) Applicable Construction Code ASME III Applicable Edition of Section XI Utilized for Repairs or Replacements 1986 Edition I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced and Replacement Components I. Identification of Components Repaired or Replaced, Tyear Replaced, Ty	2 Plant North Anna Po	ower Station		ĺ	Unit 2			
Address Repair Organization P.O. No. Job No. , etc. N/A Name	Z. Haitt Holti Allia C				OIII			
Address Repair Organization P.O. No. Job No. , etc. No. Work Performed By Virginia Electric & Power Company Name Name Authorization No. N/A Authorization No. N/A Authorization No. N/A Expiration Date N/A Authorization No. N/A Expiration Date N/A Authorization No. N/A Expiration Date N/A Authorization Of Section N/A Authorization Date N/A Authorization N/A Authorization N/A Authorization N/A Authorization N/A Authorization N/A Authorization Date N/A Authorization N/A	P.O. Box 402. Mineral.	VA 23117			R/R 99-129 Work 0	Order 402	2610-01	
Name Authorization No. N/A Authorization No. N/A								etc.
Name Authorization No. N/A Authorization No. N/A	3. Work Performed By	Virginia Electric & Po	ower Company		Type Code Symbol :	Stamp _	N/A	
Address 4. Identification of System Main Steam, Class 2 5. (a) Applicable Construction Code ASME III 1968 Edition, 70 Addenda,					Authorization No		N/A	
4. Identification of System Main Steam, Class 2 5. (a) Applicable Construction Code ASME III 1988 Edition, 70 Addenda,	5000 Dominion Blvd., G				Expiration Date		N/A	
(a) Applicable Construction Code ASME III 1968 Edition, 70 Addenda,	4. Identification of Syste							
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986_Edition 3. Identification of Components Repaired or Replaced and Replacement Components Name of Component	-							
Name of Component Name of Manufacturer Serial No. No. Identification of Work Replaced disc insert due to normal wear. No. Description of Work Replaced disc insert due to normal wear. No. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure Frest Temp. Pressure Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of						da,	(Code Case
Name of Component Name of Manufacturer Serial No. National Board Identification Pear Beplaced, Feplaced, Or Replaced, Or Replaced, Or Replacement Stamped (Yes or No) Main Steam Safety Valve Disc Insert 7. Description of Work Replaced disc insert due to normal wear. 8. Tests Conducted: Hydrostatic Pneumatic Normal Operating Pressure Other Pressure Psi Test Temp. Other Repaired, Replaced, Stamped (Yes or No) No. ASME Code Stamped (Yes or No) No. 1998 Replacement No No. Tests Conducted: Hydrostatic Pneumatic Normal Wear. No. No. No. No. 1998 Replacement No No. 1998 Replacement No No. No. No. No. No. 1998 Replacement No No. No. No. No. 1998 Replacement No. No. No. No. No. No. 1998 Replacement No. No. No. No. No. No. No. 1998 Replacement No. No. No. No. No. No. 1998 Replacement No. No. No. No. No. 1998 Replacement No. No. No. No. No. No. 1998 Replacement No. No. No. No. No. 1998 Replacement No. No. No. No. No. No. 1998 Replacement No. No. No. No. No. No. No. No.	(b) Applicable Edi	lion of Section At Oti	lized for nepairs o	ir nepiacemen	is 19 <u>66 E</u> dition			
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Name of Component Name of Manufacturer Name of Component Name of Manufacturer Name of Component Name of Manufacturer Serial No. National Board No. No. Other Identification Pear Built Replaced, or Replacement No. Main Steam Safety Valve Disc Insert No. National Board No. No. Other Identification No. Pear Built Replaced, or Replacement No. No. No. No. No. No. No. No						T		
Name of Component Name of Manufacturer Serial No. Serial No. Identification Pair Replaced, or Replacement (Yes or No) Main Steam Safety Valve Disc Insert 7. Description of Work Replaced disc insert due to normal wear. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Pressure Pressure Pressure Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 ½ 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								
Component Manufacturer Serial No. No. Identification Built or Replacement or No. Main Steam Safety Valve Disc Insert Crosby N88473-40-0102 N/A 2-MS-SV-205C 1998 Replacement No. 7. Description of Work Replaced disc insert due to normal wear. 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	Nome of	Nome of	Monufacturar		Other	Vacar		
7. Description of Work Replaced disc insert due to normal wear. 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 ½ 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								
7. Description of Work Replaced disc insert due to normal wear. 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								
7. Description of Work Replaced disc insert due to normal wear. 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								
7. Description of Work Replaced disc insert due to normal wear. 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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of	Main Steam Safety	Crosby	N88473-40-0102	N/A	2-MS-SV-205C	1998	Replacement	No
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of	Valve Disc Insert							
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of								
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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		1			<u>.</u>	1		<u> </u>
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 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of								
Other Pressurepsi Test Temp°F NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of	Description of World	k <u>Replaced disc inse</u>	rt due to normal w	ear.				
Other Pressurepsi Test Temp°F NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of	9 Toots Conducted:	Hudrostatio□ Pno	ımatic 🗀 Nom	inal Operating	Proceura 🗖			
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	o. Tests Conducted:	· —			_			
information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of		Oriei Pressure	psi	rest remp	г			
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.				a on caon one	or, and to cause one	ocio nulli		

Applicable Manufacturer's Data Reports to be attached	
· · · · · · · · · · · · · · · · · · ·	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules a repair or replacement.	of the
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A Expiration Date N/A	
Signed Pat Naugh ISI Engineer Date C. tober 6 , 1999 Owner or Owner's Designee, Title)
4 CERTIFICATE OF INSERVICE INSPECTION	
, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the	
or Province of <u>Virginia</u> and employed by <u>H.S.B.I. & I.</u>	
Hartford, CT have inspected the components de n this Owner's Report during the period 9/2z/99 to 10/6/99 , and sta	escribe
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described	d in thi
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, concern	
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his er	
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected w	vith thi
inspection.	
Bono W	
M M Hue Commissions VA 42Y-R Inspector's Signature National Board, State, Province, and Endorsem	ente
Hational Board, State, Frovince, and Endotsem	
Date 10/6 19.79	

Attachment 2 Page 27 of 32 Serial No.: 99-601 Docket No.: 50-339

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

	ctric & Power Compa Name			Date October 14, 19	99	 	
5000 Dominion Blvd., G	Glen Allen, VA 23060 Address		<u> </u>	Sheet 1	of	1	
2. Plant North Anna Po	ower Station Name	e		Unit: _ 2			
P.O. Box 402, Mineral,		·	 .	R/R 99-130 Work (609-01 O. No. Job No. ,	etc.
3. Work Performed By				Type Code Symbol :	Stamp	N/A	
13 Kendrick St., Wrenti	Nam ham, MA 02093 Address			Authorization No Expiration Date		N/A N/A	
I. Identification of Syste	em <u>Main Steam, Clas</u>	is 2				·	
(b) Applicable Edi	nstruction Code <u>ASM</u> ition of Section XI Util omponents Repaired	lized for Repairs or	r Replacemen	ts 19 <u>86</u> Edition	da,		Code Cas
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)
Main Steam Safety Valve Bonnet	Crosby	N88476-1-0006	N/A	2-MS-SV-205B	1972	Repair	Yes
7. Description of work	c.Bored out adjusting	bolt threads, welde	ed area, and r	ecut adjusting bolt the	nreads.		

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

Remarks	
	Applicable Manufacturer's Data Reports to be attached
	CERTIFICATE OF COMPLIANCE
We certify that the s	statements made in the report are correct and this repair conforms to the rules of the
ASME Code, Section X1.	repair or replacement
	N / A
Type Code Symbol Stamp	N/A
	N/A N/A
Certificate of Authorization No	o, N/A Expiration Date N/A
Since Potall Novot	ISI Engineer Date October 14 , 19 99
Owner or Owner's D	esignee, Title
	CERTIFICATE OF INSERVICE INSPECTION
, the undersigned, holding a vi	alid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the Sta
or Province of VISTO14	and employed by H. S-R-L RL Co
Hartford C	have inspected the components describe g the period 12/199 to 12/199, and state the
n this Owner's Report during	the period 9/22/99 to 12/5/99, and state the
	and belief, the Owner has performed examinations and taken corrective measures described in th
Owner's Report in accordance	with the requirements of the ASME Code, Section XI.
By signing this certificate r	neither the Inspector nor his employer makes any warranty, expressed or implied, concerning th
	neasures described in this Owner's Report. Furthermore, neither the Inspector nor his employe
	or any personal injury or property damage or a loss of any kind arising from or connected with th
inspection.	Λ
Me 1 m	
///4/2 ///	Flance: Commissions VA 424-12 National Board, State, Province, and Endorsements
Inspector's	Signature National Board, State, Province, and Endorsements
Date/2 / /3	19. 9 5

Attachment 2
Page 28 of 32
Serial No.: 99-501-601
Docket No.: 50-339 JUK
12/15/99

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 Elec</u>	ctric & Power Compa Nam			Date October 12, 1	999		
5000 Dominion Blvd., G	<u>Alen Allen, VA 2306</u> Address			Sheet 1	_ of	2	
2. Plant North Anna Po	ower Station Nam	e		Unit: _2	·· · · · · · · · · · · · · · · · · · ·		
P.O. Box 402, Mineral,	VA 23117 Address			R/R 99-135 Work		0714-01 .O. No. Job No. ,	etc.
3. Work Performed By	Virginia Electric & P			Type Code Symbo Authorization No.	Stamp _	N/A	
5000 Dominion Blvd., G	Glen Allen, VA 2306 Address			Expiration Date		N/A	
4. Identification of Syste					,		
	nstruction Code <u>ASN</u> tion of Section XI Uti				nda,		Code Cas
6. Identification of Co	omponents Repaired	or Replaced and F	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)
Plug	Masoneilan	Ht. # 169666	N/A	2-RC-PCV-2455C	1999	Replacement	No
7. Description of Wor	k <u>Replaced plug due</u>	to leakby.					
	Hydrostatic∏ Pne	umatic Nomi	inal Operating	Pressure 🔀			

sheets is recorded at the top of this form.

(12/82)

Remarks Applic	cable Manufacturer's Data Reports to be attached
	RTIFICATE OF COMPLIANCE
We certify that the statements made in ASME Code, Section XI.	the report are correct and this replacement conforms to the rules of the repair or replacement
Type Code Symbol StampN/A	
Certificate of Authorization No, N/A	Expiration Date N/A
Signed Pat 1 Naught Owner or Owner's Designee, Title	ISI Engineer Date October 12 , 1999
CEPT	TIFICATE OF INSERVICE INSPECTION
	sued by the National Board of Boiler and Pressure Vessel Inspectors and the Stat
or Province of Virginia and em	oployed by H.S.B.I. & I.
Hartford, CT	have inspected the components described to the components
in this Owner's Report during the period	<u>9/24/99</u> to <u>/0//8/99</u> , and state the
to the best of my knowledge and belief, the Ow	wner has performed examinations and taken corrective measures described in thi
Owner's Report in accordance with the requireme	ents of the ASME Code, Section XI.
By signing this certificate neither the Inspect	tor nor his employer makes any warranty, expressed or implied, concerning th
examinations and corrective measures described shall be liable in any manner for any personal in	d in this Owner's Report. Furthermore, neither the Inspector nor his employed in this property damage or a loss of any kind arising from or connected with the
inspection.	
to the of	WALLAND P
Inspector's Signature	Commissions VA42Y-R National Board, State, Province, and Endorsements
Date 10/12 19.99	

Attachment 2

Page 29 of 32 Serial No.: 99-501- 60 \ Docket No.: 50-339 WK

12/15/99

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 Elec</u>	ctric & Power Compa Nam			Date October 7, 199	9		
5000 Dominion Blvd., G				Sheet 1	of	1	
JOGO BOMINION BIVO., C	Address			Officer	oi		
. Plant <u>North Anna Po</u>				Unit: 2			
P.O. Box 402, Mineral,	Nan	ie		D/D 00 129 Work (Ordor 400	ees 00	
.O. BOX 402, Millieral,	Address	· · · · · · · · · · · · · · · · · · ·		R/R 99-138 Work C Repair Organi		O. No. Job No. ,	etc.
. Work Performed By				Type Code Symbol S			
800 Highway 20 West	Nan Hunstsville, AL 351			Authorization No Expiration Date			
	Address						
. Identification of Syste	em <u>Reactor Coolant</u>	Class 1		·····	· · · · · · · · · · · · · · · · · · ·		
(b) Applicable Edi	ition of Section XI Ut	ilized for Repairs o	or Replacemen				
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)
Superbolt NUH650	Nova Machine Products	Heat # 36398006	N/A	2-RC-SV-2551C	1999	Replacement	No
1 3/8" Heavy Hex Head Nut	Mackson, Inc.	Heat # 60344	N/A	2-RC-SV-2551C	1998	Replacement	No
1 3/8" Stud	Mackson, Inc	Heat # 67889	N/A	2-RC-SV-2551C	1999	Replacement	No
Description of Wor Tests Conducted:							
	Other Pressure			_			
information in ite	nental sheets in form ms 1 through 6 on the ad at the top of this f	nis report is include	or drawings med on each she	nay be used, provided eet, and (3) each she	d (1) size et is num	e is $8^1/_2$ in. x 11 in the number of and the number of	n., (2) umber of

(12/82)

Romarks Nich desen Surgering Cocuments IFER * Nom 0003300 ET-CE-99-018 Row &
Remarks New design, supporting documents IEER * Nom 00033 xc E7-CE-99-018 Roy & Applicable Manufacturer's Data Reports to be attached Stud material change from SA-193 Gr B7 to SA-193 G-16
Stud material change from SA-193 Gr B7 to SA-193 G-16
· · · · · · · · · · · · · · · · · · ·
acceptable per EWR 87-542
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI.
37 / h
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed Par Nacyt ISI Engineer Date October 7 , 1999 Owner or Owner's Designee, Title
Owner or Owner's Designee, Title
· CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of <u>Virginia</u> and employed by <u>H.S.B.I. & I.</u> of Hartford, CThave inspected the components described
Hartford, CT have inspected the components described in this Owner's Report during the period 9/24/99 to 10/19/88 , and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this
inspection.
An An Ad
Inspector's Signature Commissions VA 424 - R National Board, State, Province, and Endorsements
Inspector a digitature
Date 10/19/
Date19

Attachment 2

Page 30 of 32 Serial No.: 99-594- 601 Docket No.: 50-339 JWK 12/15/99

	otric & Power Compa Nam		,	Date October 7, 199	9		
000 Dominion Blvd., G		0		Sheet1	of	_1	
Plant North Anna Po	ower Station Nam	ne		Unit: 2			·
O. Box 402, Mineral,	VA 23117 Address			R/R 99-139 Work C		2652-02 O. No. Job No. ,	etc.
Work Performed By	Wyle Laboratories			Type Code Symbol s			
Name 7800 Highway 20 West, Hunstsville, AL 35806 Address				Authorization No Expiration Date			
Identification of Syste	em Reactor Coolant,	Class 1					
(b) Applicable Edi	ition of Section XI Ut	ilized for Repairs o	or Replacemen				
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)
Superbolt NUH650	Nova Machine Products	Heat # 36398006	N/A	2-RC-SV-2551B	1999	Replacement	No
3/8" Heavy Hex Head Nut	Mackson, Inc.	Heat # 60344	N/A	2-RC-SV-2551B	1998	Replacement	No
3/8" Stud	Mackson, Inc	Heat # 67889	N/A	2-RC-SV-2551B	1999	Replacement	No
		tuds and nuts with	improved desi	an.	<u> </u>		<u>L</u>
. Description of Wor	k Reniaced flance et	LUCO CITA LIGITO ALLI	""INTO TOU GOO!	3			

Remarks New Assign Supporting documents TEER * Now 60033 CC FT- CF- 59-01 Applicable Manufacturer's Data Reports to be attached	8 6
Applicable Manufacturer's Data Reports to be attached	
Stud material change from 5A-1936 x B7 to 5A-1936 x 16	
accoptable per EWR 87-542.	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this replacement conforms to the rules of the	he
ASME Code, Section XI.	
Type Code Symbol StampN/A	
Certificate of Authorization No. N/A Expiration Date N/A	
Certificate of Authorization No. N/A Expiration Date	
Signed Parl Naugtt ISI Engineer Date October 7 , 1999	
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 S	tate
or Province of Virginia and employed by H.S.B.I. & I. Hartford, CT have, inspected the components descri	01 01
Hartford, CT have inspected the components described this Owner's Report during the period 9/24/49 to 12/14/59, and state	
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in	
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 employee	
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.	
In ha of	
Commissions VA 414 - R Inspector's Signature Commissions National Board, State, Province, and Endorsement	is .
Date /3/15 19.55	
Date19/2	

Attachment 2
Page 31 of 32
Serial No.: 99-591-601
Docket No.: 50-339

12/15/99

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

	· · · · · · · · · · · · · · · · · · ·						
1. Owner Virginia Ele				Date October 7, 199	9		
	Nan	_					
5000 Dominion Blvd.,	<u>Gien Alien, VA 2306</u> Address			Sheet 1	of		
2. Plant North Anna P				Unit: _2			
	Nan	ie					
P.O. Box 402, Mineral,	VA 23117 Address	· · · · · · · · · · · · · · · · · · ·	· .	R/R 99-140 Work (order 40	2651-01 .O. No. Job No. ,	etc
3. Work Performed By	Wyle Laboratories			Type Code Symbol s			
	Nan	•		Authorization No			
7800 Highway 20 Wes	t, Hunstsville, AL 350 Address			Expiration Date		N/A	
4. Identification of Syst	em <u>Reactor Coolant</u>	Class 1					
(b) Applicable Ed	nstruction Code <u>ANS</u> ition of Section XI Ut omponents Repaired	ilized for Repairs o	or Replacemen		da, <u>78, 8</u>	1, 83(R), 115	Code Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Superbolt NUH650	Nova Machine Products	Heat # 36398006	N/A	2-RC-SV-2551A	1999	Replacement	No
1 3/8" Heavy Hex Head Nut	Mackson, Inc.	Heat # 60344	N/A	2-RC-SV-2551A	1998	Replacement	No
1 3/8" Stud	Mackson, Inc	Heat # 67889	N/A	2-RC-SV-2551A	1999	Replacement	No
	-						
7. Description of Wor	-				1	<u> </u>	
8. Tests Conducted:	Other Pressure						
information in ite	ental sheets in form ms 1 through 6 on th d at the top of this fo	is report is include	or drawings ma ed on each she	ay be used, provided et, and (3) each shee	i (1) size et is num	is 8 ¹ / ₂ in. x 11 in bered and the nu	n., (2) umber of

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

Stud material change	Application	ble Manufactu 5 4 - 15 3 - G	, B7 A	r 50	-153	Gr 16	acceptab	6 per
GBUR 97-542								,
								<u>, , , , , , , , , , , , , , , , , , , </u>
	CER	TIFICATE O	F COMPLIA	NCE	_			
We certify that the statem	ents made in th	ne report are o	correct and t	his <u>rep</u>	Lacem or replace	<u>ent</u> con cement	forms to the	rules of the
ASME Code, Section XI.					·			
Type Code Symbol StampN/	<u> </u>							
Certificate of Authorization No. <u>N</u>			Euni	iration Di	ato	N/A		
Dertificate of Authorization No. 11								
Signed Owner or Owner's Design	- Tiels	ISI Eng	ineer	Date	Cole	<u> </u>	<u></u> ,	19 <u>99</u>
Owner or Owner's Design	se, 110e							
	. CERTII	FICATE OF I	NSERVICE	INSPECT	TION			
, the undersigned, holding a valid o	ommission issu	ed by the Nat	ional Board	of Boiler	and Pre	ssure Vess	el Inspectors	and the Sta
or Province of <u>Virginia</u>	and emp	loyed by H.	S.B.L.	<u> </u>			he compone	
Hartford, CT		9/24	122	+0		5/99		and state th
in this Owner's Report during the to the best of my knowledge and I	period		med evernin	ations an	d taken	corrective		
to the best of my knowledge and	the manifestor	ner has perior	ME Code Se	ction XI.		•••••		
Owner's Report in accordance with By signing this certificate neith	the requiremen		Nover make	e any wa	rranty (expressed	or implied. (concerning
By signing this certificate neith examinations and corrective meas	er the inspecto	ir nor nis emi	oloyei illake	Furthern	nore ne	ither the	inspector no	r his emplo
examinations and corrective meas shall be liable in any manner for a	ures described	in this Owne	v damaga o:	a loss of	anv kin	d arising f	rom or conn	ected with t
	ny personal inju	ily of propert	y damage o					
inspection.								
2		C	miceione I	VA42	4-R		ince, and En	
Mr France		COITI	1119910119					

Attachment 2 Page 32 of 32

Serial No.: 99-591 601 Docket No.: 50-339 JWK

12/15/99

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

Owner Virginia Elec	tric & Power Comps	env.		Date October 6, 199	10		
1. Owner <u>virginia crec</u>	Nam			Date October 6, 135			
5000 Dominion Blvd., G	Bien Allen, VA 2306 Address	• • • • • • • • • • • • • • • • • • • •	······	Sheet 1	of	1	
2. Plant North Anna Po	ower Station	ne		Unit: 2	· -	-	
P.O. Box 402, Mineral,	VA 23117			R/R 99-141 Work (
3. Work Performed By		ower Company		Type Code Symbol	Stamp _		etc.
5000 Dominion Blvd., G	Nam <u>Nam Allen, VA 2306</u> Address	0		Authorization NoExpiration Date		N/A N/A	
4. Identification of Syste			tem, Class 2				
(b) Applicable Edi	nstruction Code <u>ANS</u> tion of Section XI Ut Imponents Repaired	ilized for Repairs o	or Replacemen	on <u>, 1970</u> Adden nts 19 <u>83</u> Edition with Components	ida, <u>78. 8</u> h Summe	1, 83(R), 115 er 1983 Addenda	Code Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1" Threaded Rod	Mackson, Inc.	Ht. # S16827	N/A	2-CH-FE-2156B	1998	Replacement	No
1" Nuts	Mackson, Inc.	Ht. # 34413PJ	N/A	2-CH-FE-2156B	1997	Replacement	No
	-						
7. Description of Worl	Replaced stu	ids and nuts due t	o flange leak.		- l		.I
8. Tests Conducted:	Hydrostatic Pne		ninal Operating Test Temp				
information in iter	ental sheets in form ns 1 through 6 on th d at the top of this fo	is report is include	or drawings n ed on each sh	nay be used, provided eet, and (3) each she	d (1) size et is num	e is 8 ¹ / ₂ in. x 11 in bered and the no	n., (2) umber of

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

(12/82)

Applicable Manufacturer's Data Reports to be attached	<u></u>
CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this <u>replacement</u>	onforms to the rules of the
ASME Code, Section XI.	ent
ASIME CODE, DECITOR AT	
Type Code Symbol StampN/A	
Certificate of Authorization No. N/A Expiration Date N/A	
Signed Out Mary Isl Engineer Date / Jobs.	
Signed /- / / //// ISI Engineer Date /- (1/10)	<u>6</u> , 19 <u>99</u>
CERTIFICATE OF INSERVICE INSPECTION	
i, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure	Vessel Inspectors and the Star
or Province of <u>Virginia</u> and employed by <u>H.S.B.I. & I.</u>	
Hartford, CT have inspect in this Owner's Report during the period 9/25/97 to 10/6/9	9 and state the
to the best of my knowledge and belief, the Owner has performed examinations and taken corre	
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, expres	ssed or implied, concerning th
examinations and corrective measures described in this Owner's Report. Furthermore, neither	the Inspector nor his employ
shall be liable in any manner for any personal injury or property damage or a loss of any kind aris	ing from or connected with th
inspection.	
pa a d	
M Jua Commissions VA 414-R Inspector's Signature National Board, State,	
Inspector's Signature National Board, State,	Province, and Endorsements
Date	