

**ATTACHMENT 1**

**1996 UNIT 1 REFUELING OUTAGE  
INSERVICE INSPECTION SUMMARY REPORT**

**OWNER'S REPORT FOR INSERVICE INSPECTIONS**

**NORTH ANNA POWER STATION - UNIT 1  
P.O. BOX 402  
MINERAL, VA 23117**

**COMMERCIAL SERVICE DATE 6-6-78**

**APRIL 11, 1996**

**VIRGINIA ELECTRIC AND POWER COMPANY  
5000 DOMINION BOULEVARD  
GLEN ALLEN, VA 23060**

Docket Number: 50-338

Serial Number: 96-154

Attachment 1

Page 1 of 19

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

1. Owner Virginia Electric & 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  
(Name and Address of Plant)

3. Plant Unit 1 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 06-06-78 6. National Board Number for Unit N/A

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
BORON INJECTION TANK	STRUTHER WELLS CORP.	2-70-07-30717-14	59700	13351
CLASS 1 COMPONENT SUPPORTS	VIRGINIA ELECTRIC & POWER CO.	N/A	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	258	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	261	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	263	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	264	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	265	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	266	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	268	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	270	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	272	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	772	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	773	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	874	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	875	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	882	N/A	N/A

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 11-12-94 to 3-8-96
9. Inspection Period Identification Third Period (12-24-95 - 12-24-98)
10. Inspection Interval Identification Second Interval (12-24-88 - 12-24-98)
11. Applicable Edition of Section XI 1983 Addenda Summer 1983
12. Date/Revision of Inspection Plan October 24, 1995 Revision 7, Interim Change 96-05
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. Attachment 1 Pages 7 - 19
14. Abstract of Results of Examinations and Tests. Attachment 1 Pages 7 - 19
15. Abstract of Corrective Measures. Attachment 1 Pages 7 and 8

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

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

Date April 11 19 96 Signed Virginia Electric & Power Co. By CJ Snow  
Owner

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Virginia and employed by Hartford Steam Boiler I & I Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 11/12/94 to 3/8/96, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

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

Mack M. Hays Commissions 9531, VA-424, INA  
Inspector's Signature National Board, State, Province, and Endorsements

Date April 11 19 96

# Supplemental Sheet

Docket Number: 50-338

Serial Number: 96-154

Attachment 1

## FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

Page 2 of 19

1. Owner Virginia Electric & 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  
(Name and Address of Plant)

3. Plant Unit 1 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 06-06-78 6. National Board Number for Unit N/A

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
CLASS 1 PIPING	SOUTHWEST FABRICATING	883	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	884	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	885	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	892	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	893	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	894	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	898	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	928	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	929	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	933	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	935	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	936	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	949	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	952	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	953	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	958	N/A	N/A

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.



# Supplemental Sheet

Docket Number: 50-338

Serial Number: 96-154

Attachment 1

Page 3 of 19

## FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Virginia Electric & 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  
(Name and Address of Plant)

3. Plant Unit 1 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 06-06-78 6. National Board Number for Unit N/A

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
CLASS 1 PIPING	SOUTHWEST FABRICATING	959	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	970	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	971	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	980	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1070	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1072	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1073	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1076	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1078	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1086	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1088	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1092	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1094	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1095	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1187	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1265	N/A	N/A

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.

# Supplemental Sheet

Docket Number: 50-338

Serial Number: 96-154

Attachment 1

Page 4 of 19

## FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Virginia Electric & 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  
(Name and Address of Plant)
3. Plant Unit 1 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 06-06-78 6. National Board Number for Unit N/A
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
CLASS 1 PIPING	SOUTHWEST FABRICATING	1492	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1496	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1497	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	1498	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	2631	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	2632	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	2633	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	2691	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	2693	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	3042	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	3043	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	4131	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	4132	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	4138	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	4537	N/A	N/A
CLASS 1 PIPING	SOUTHWEST FABRICATING	4538	N/A	N/A

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.

## Supplemental Sheet

Docket Number: 50-338

Serial Number: 96-154

Attachment 1

Page 5 of 19

## FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Virginia Electric & 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  
(Name and Address of Plant)
3. Plant Unit 1 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 06-06-78 6. National Board Number for Unit N/A
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
CLASS 1 PIPING	SOUTHWEST FABRICATING	5161	N/A	N/A
'B' LOW HEAD SI PUMP	INGERSOL- RAND	VGB-SIAPLH-01	N/A	N/A
CLASS 1 PIPING NON-SERIALIZED	STONE & WEBSTER ENG. CORP	N/A	N/A	N/A
CLASS 2 COMPONENT SUPPORTS	VIRGINIA ELECTRIC & POWER CO.	N/A	N/A	N/A
CLASS 2 PIPING NON-SERIALIZED	STONE & WEBSTER ENG. CORP.	N/A	N/A	N/A
OUTSIDE RECIRC. SPRAY PUMP 'B'	BINGHAM WILLAMETTE COMPANY	200466	N/A	156
PRESSURIZER 1400 CUBIC FEET	WESTINGHOUSE ELECTRIC CORP.	1271	58322	6888
REACTOR COOLANT PUMP 'C'	ESCO CORP.	725	N/A	N/A
REACTOR VESSEL 157" ID	RDM ROTTERDAM	30661	58328	N/A
RH HEAT EXCH. 'A' 33XE6 BTU/HR	JOSEPH OAT AND SONS, INC.	1832-3	58337	370
RH HEAT EXCH. 'B' 33XE6 BTU/HR	JOSEPH OAT AND SONS, INC.	1832-4	58336	371
SEAL WATER INJECTION FILTER 'A'	COMMERCIAL FILTERS DIVISION	19046-1968	N/A	1466
STEAM GENERATOR 'A'	WESTINGHOUSE ELECTRIC CORP.	1261	58327	6867
STEAM GENERATOR 'B'	WESTINGHOUSE ELECTRIC CORP.	1262	58323	6868
STEAM GENERATOR 'C'	WESTINGHOUSE ELECTRIC CORP.	1263	58324	6869

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.

Virginia Electric and Power Company  
North Anna Power Station

Unit 1

1996 Refueling Outage  
2nd Interval, 3rd Period

Introduction

This report includes the Interval 2 inservice examinations of Class 1 and Class 2, components, piping and component supports that were conducted at North Anna Power Station Unit 1 from October 5, 1994 to March 8, 1996. The examinations during the second interval were performed to meet the requirements of ASME Section XI, 1983 Edition thru the Summer 1983 Addenda.

Examination procedures were approved prior to the examinations being performed. 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, CT 06102 (M. M. Grace and C.A. Ireland), North Anna Power Station maintenance staff, and the North Anna Power Station technical staff.

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 attempt to achieve the maximum examination volume. However, where 100% examination was not possible the examination was considered to be 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 submitted.

Some repair activities were performed after the end of the refueling outage, March 8, 1996. These post-outage activities are included in this report rather than the next report to state the extent of completion of the third period second interval examinations. The post-outage examinations contained in this report will not be reported in the next NIS-1 report.

## Results

Examinations of components and component supports resulted in nine items being reported on the basis of procedure reporting criteria.

- 1) Insufficient thread engagement on the upper nuts which attach hydraulic snubber, 1-MS-HSS-23B, to the tube steel was reported. The hydraulic snubber is shown on drawing 11715-WMKS-101A-1, Class 2. The hydraulic snubber was determined by operable in its as-found condition. The bolting was adjusted and found to be acceptable upon reexamination.
- 2) Insufficient thread engagement on two anchor bolts was reported for component support R-1 on line 3"-CH-A-01-1502-Q1 shown on 11715-WMKS-0103CD. The condition was determined to be acceptable. The evaluation is included Attachment 3.
- 3) Two spacer plates were found on component support 1-SI-R-197 for line 6"-SI-131-1502-Q1, Class 2, shown on drawing 11715-WMKS-0103K. The spacer plates were not shown on drawing 11715-PSSK-0103K.02. The component support was determined to be operable in its as-found condition. The spacer plates were removed. The component support was found to be acceptable upon reexamination.
- 4) The rod hanger for component support RH-186 for line 6"-SI-132-1502-Q1, Class 2, shown on drawing 11715-WMKS-0103T had a half inch gap between the rod eye and pipe clamp. The component support was determined to be operable in its as-found condition. The rod length was adjusted and the component support was found to be acceptable upon reexamination.
- 5) Drawing 11715-WMKS-0109D shows hydraulic snubbers as 1-RC-HSS-101. The mark number is listed as 1-RC-HSS-101A in the Snubber Program and Passport. The drawing will be revised to change the mark number to 1-RC-HSS-101A.
- 6) The spring setting for component support SH-37 for line 8"-SI-40-153A-Q2, Class 2, shown on drawing 11715-WMKS-111B was out of tolerance. The component support was determined to be operable in its as-found condition. The setting was adjusted and the component support was found to be acceptable upon reexamination.



- 7) Two anchor bolt nuts were loose, one anchor bolt nut was missing, and one anchor bolt was bent on component support A-179 on line 3"-CH-71-1502-Q2, Class 2, shown on drawing 11715-WMKS-0111XD. The component support was determined to be inoperable in its as-found condition. Ten additional component supports were examined as required by IWF-2430(a), refer to page 14 of Attachment 1. All ten component support were found to be acceptable. The loose anchor bolt nuts were tightened, and an anchor bolt nut was installed under repair program 96-135. The component support was found to be acceptable upon reexamination.
- 8) A loose lock nut was found on component support SH-14 on line 14"-RH-3-602-Q2, Class 2, shown on drawing 11715-WMKS-0113A-2. The component support was determined to operable in its as-found condition. The lock nut was tightened and the component support was found to be acceptable upon reexamination.
- 9) Insufficient thread engagement was reported on valve bonnet bolting on 1-SI-144, Class 1, shown on drawing 11715-WMKS-0113B. The valve was determined to be operable in its as-found condition. The washer was removed and the bolting adjusted to achieve full thread engagement and the valve was found to be acceptable upon reexamination.

#### Resolution of Previous NIS-1 and NRC commitments

The following is a synopsis of commitments made in the previous NIS-1 submittal and their status:

1. Letter Serial No. 94-688 Attachment 1, page 4, item A:

A commitment was made to repair ten indications on monoball support 1-FW-PH-R-34 on drawing 11715-WMKS-102A during the next refueling outage.

The indications were removed and a weld repair was performed under Repair Program 94-387.

2. Letter Serial No. 94-688 Attachment 1, page 4, item C:

A commitment was made to revise drawing 11715-WMKS-0104C to depict a long seam weld between circumferential welds 17 and 18.

Long seam weld LS-63 was added in revision 4 of drawing 11715-WMKS-0104C.



3. Letter Serial No. 94-688 Attachment 1, page 7:

A commitment was made to submit relief requests for the following examinations that did not achieve the required coverage.

11715-WMKS-0103W	46H
11715-WMKS-0109E-1	8
11715-WMKS-0109F-1	20
11715-WMKS-0109G-2	SW-31
11715-WMKS-0109G-2	SW-42

Relief requests were submitted under Letter Serial No. 95-097 dated 2/27/95 and granted under Letter Serial No. 95-613 dated 11/17/95.

4. Letter Serial No. 95 373, page 6:

A commitment was made to reexamine the following areas to determine material thickness and to perform the required ASME Section XI volumetric examination if the material thickness was greater than 3.75 inches.

11715-WMKS-RC-E-1A.1	8	10" - 194"
11715-WMKS-RC-E-1C.1	8	0" - 38", 184" - 223", 317.5" - 327" 368" - 407"
11715-WMKS-RC-E-1C.1	10	100%

The examinations were performed and the material thickness was found to be greater than 3.75". The required ASME Section XI volumetric examinations were performed and found to be acceptable.

Analytical Evaluations

No analytical evaluations were performed.

Evaluation Analyses

One evaluation analysis was performed for a visual indication and is included in Attachment 3.

Statement of Interval Status

Virginia Electric and Power has completed 86% of Second 10-Year Interval Section XI requirements.

Abstract of Examinations Performed  
 IWB, IWC & IWF

The exams were performed to satisfy the second period requirements.

DRAWING NUMBER	MARK NUMBER	LINE NUMBER	CLASS	SECTION XI CATEGORY	ITEM	EXAM METHOD	EXAM DATE	REMARKS
11715-WMKS-0101A-1	HSS-23A	32'-SHP-1-601-Q2	2A	F-C	F3.0	VT-3	2/21/96	
11715-WMKS-0101A-1	HSS-23B	32'-SHP-1-601-Q2	2A	F-C	F3.0	VT-3	2/21/96	1
11715-WMKS-0102B	HSS-212	16'-WFPD-23-601-Q2	2A	F-C	F3.0	VT-3	2/22/96	
11715-WMKS-0102C	SH-43	16'-WFPD-22-601-Q2	2A	F-C	F3.0	VT-3	2/18/96	
11715-WMKS-0103AC	R-18D	6'-SI-21-1502-Q1	2A	F-A	F1.0	VT-3	2/15/96	
11715-WMKS-0103AC	SW-3	6'-SI-16-1502-Q1	2A	C-F-1	C5.11	PT/UT	2/20/96	
11715-WMKS-0103AD	12	6'-SI-16-1502-Q1	2A	C-F-1	C5.11	PT/UT	2/18/96	
11715-WMKS-0103AD	47H	6'-SI-16-1502-Q1	2A	C-C	C3.20	PT	2/25/96	
11715-WMKS-0103AD	R-2	6'-SI-16-1502-Q1	2A	F-A	F1.0	VT-3	2/16/96	
11715-WMKS-0103AD	SI-103 BOLTING	6'-SI-16-1502-Q1	1A	B-G-2	B7.70	VT-1	2/16/96	
11715-WMKS-0103AD	SI-213 BOLTING	6'-SI-16-1502-Q1	1A	B-G-2	B7.70	VT-1	2/16/96	
11715-WMKS-0103AD	SW-69	6'-SI-16-1502-Q1	1A	B-J	B9.32	PT	2/26/96	
11715-WMKS-0103AE-1	11	3'-SI-139-1502-Q1	1A	B-J	B9.21	PT	2/26/96	
11715-WMKS-0103AE-1	29	3'-SI-57-1502-Q1	1A	B-J	B9.21	PT	2/29/96	
11715-WMKS-0103AE-1	30	3'-SI-57-1502-Q1	1A	B-J	B9.21	PT	2/26/96	
11715-WMKS-0103AE-1	8	3'-SI-139-1502-Q1	1A	B-J	B9.21	PT	2/26/96	
11715-WMKS-0103AE-1	SW-65	3'-SI-57-1502-Q1	1A	B-J	B9.21	PT	2/29/96	
11715-WMKS-0103AE-3	43	2'-SI-59-1502-Q1	1A	B-J	B9.40	PT	2/27/96	
11715-WMKS-0103AE-4	R-31	2'-SI-61-1502-Q1	1A	F-B	F2.0	VT-3	2/14/96	
11715-WMKS-0103AE-4	SW-15	2'-SI-61-1502-Q1	1A	B-J	B9.40	PT	2/28/96	
11715-WMKS-0103AF	8A	2'-SI-59-1502-Q1	1A	B-J	B9.40	PT	2/14/96	
11715-WMKS-0103AF	SW-4	6'-SI-19-1502-Q1	1A	B-J	B9.32	PT	2/14/96	
11715-WMKS-0103AF	SW-5	6'-SI-19-1502-Q1	2A	C-F-1	C5.11	PT/UT	2/15/96	
11715-WMKS-0103AG	R-13	2'-SI-59-1502-Q1	1A	F-B	F2.0	VT-3	2/15/96	
11715-WMKS-0103AJ	8	6'-SI-21-1502-Q1	2A	C-F-1	C5.11	PT/UT	2/25/96	
11715-WMKS-0103AJ	R-2	6'-SI-21-1502-Q1	2A	F-B	F2.0	VT-3	2/14/96	
11715-WMKS-0103AJ	SW-5	6'-SI-21-1502-Q1	2A	C-F-1	C5.11	PT/UT	2/25/96	
11715-WMKS-0103AJ	SW-59	2'-SI-61-1502-Q1	1A	B-J	B9.40	PT	2/26/96	
11715-WMKS-0103AK	7	2'-SI-61-1502-Q1	1A	B-J	B9.40	PT	3/1/96	
11715-WMKS-0103AK	R-12	2'-SI-61-1502-Q1	1A	F-B	F2.0	VT-3	2/16/96	
11715-WMKS-0103AK	SW-63	2'-SI-61-1502-Q1	1A	B-J	B9.40	PT	2/29/96	
11715-WMKS-0103AL	R-20	2'-SI-61-1502-Q1	1A	F-B	F2.0	VT-3	2/16/96	
11715-WMKS-0103AS	FE-1482	2'-RC-44-1502-Q1	1A	B-G-2	B7.50	VT-1	2/16/96	
11715-WMKS-0103AT	8	2'-CH-96-1502-Q1	1A	B-J	B9.40	PT	2/28/96	
11715-WMKS-0103AT	9	2'-CH-96-1502-Q1	1A	B-J	B9.40	PT	2/28/96	
11715-WMKS-0103AT	R-11	2'-CH-96-1502-Q1	1A	F-A	F1.0	VT-3	2/20/96	
11715-WMKS-0103AT	R-14	2'-CH-96-1502-Q1	1A	F-B	F2.0	VT-3	2/20/96	
11715-WMKS-0103AT	R-15	2'-CH-96-1502-Q1	1A	F-A	F1.0	VT-3	2/20/96	
11715-WMKS-0103AT	R-37	2'-CH-96-1502-Q1	1A	F-B	F2.0	VT-3	2/14/96	
11715-WMKS-0103AT	R-5	2'-CH-96-1502-Q1	1A	F-A	F1.0	VT-3	2/14/96	
11715-WMKS-0103AT	SW-21	2'-CH-96-1502-Q1	1A	B-J	B9.40	PT	3/1/96	
11715-WMKS-0103AT	SW-33	2'-CH-96-1502-Q1	1A	B-J	B9.40	PT	2/28/96	
11715-WMKS-0103AT	SW-37	2'-CH-96-1502-Q1	1A	B-J	B9.40	PT	2/28/96	
11715-WMKS-0103AU	4	2'-CH-94-1502-Q1	1A	B-J	B9.40	PT	2/23/96	
11715-WMKS-0103AU	6	2'-CH-94-1502-Q1	1A	B-J	B9.40	PT	2/23/96	
11715-WMKS-0103AU	R-12	2'-CH-94-1502-Q1	1A	F-A	F1.0	VT-3	2/20/96	
11715-WMKS-0103AV	R-3	2'-CH-92-1502-Q1	1A	F-B	F2.0	VT-3	2/14/96	
11715-WMKS-0103AV	R-5	2'-CH-92-1502-Q1	1A	F-A	F1.0	VT-3	2/14/96	
11715-WMKS-0103AV	SW-30	2'-CH-92-1502-Q1	1A	B-J	B9.40	PT	2/28/96	
11715-WMKS-0103BB-2	2	3'-RC-217-1502-Q1	1A	B-J	B9.21	PT	2/18/96	
11715-WMKS-0103BB-2	6	2'-RC-57-1502-Q1	1A	B-J	B9.40	PT	2/16/96	
11715-WMKS-0103BB-2	R-1	2'-RC-218-1502-Q1	1A	F-B	F2.0	VT-3	2/14/96	
11715-WMKS-0103BB-3	6	2'-RC-58-1502-Q1	1A	B-J	B9.40	PT	2/25/96	
11715-WMKS-0103BC	A-36	2'-CH-8-1502-Q1	1A	F-A	F1.0	VT-3	2/20/96	
11715-WMKS-0103BD	10A	2'-CH-9-1502-Q1	1A	B-J	B9.40	PT	2/15/96	
11715-WMKS-0103BD	12	2'-RC-199-1502-Q1	1A	B-J	B9.40	PT	2/15/96	
11715-WMKS-0103BD	14B	2'-CH-9-1502-Q1	1A	B-J	B9.40	PT	2/15/96	
11715-WMKS-0103BD	SW-3	2'-CH-9-1502-Q1	1A	B-J	B9.40	PT	2/24/96	
11715-WMKS-0103BD	SW-4	2'-CH-9-1502-Q1	1A	B-J	B9.40	PT	2/24/96	

Docket Number: 50-338  
 Serial Number: 96-154  
 Attachment 1  
 Page 11 of 19

DRAWING NUMBER	MARK NUMBER	LINE NUMBER	CLASS	SECTION XI CATEGORY	ITEM	EXAM METHOD	EXAM DATE	REMARKS
11715-WMKS-0103BD	SW-5	2'-CH-9-1502-Q1	1A	B-J	B9.40	PT	2/26/96	
11715-WMKS-0103BD	SW-6	2'-CH-9-1502-Q1	1A	B-J	B9.40	PT	2/24/96	
11715-WMKS-0103BE	28	2'-RC-200-1502-Q1	1A	B-J	B9.40	PT	2/18/96	
11715-WMKS-0103BE	R-5	2'-CH-10-1502-Q1	1A	F-A	F1.0	VT-3	2/21/96	
11715-WMKS-0103BF	HSS-803A	2'-CH-8-1502-Q1	1A	F-C	F3.0	VT-3	2/22/96	
11715-WMKS-0103BF	R-31	2'-CH-8-1502-Q1	1A	F-A	F1.0	VT-3	2/14/96	
11715-WMKS-0103BF	R-5	2'-CH-8-1502-Q1	1A	F-A	F1.0	VT-3	2/14/96	
11715-WMKS-0103BH	23A	2'-RC-220-1502-Q1	1A	B-J	B9.21	PT	2/29/96	
11715-WMKS-0103BH	R-18	2'-RC-53-1502-Q1	1A	F-B	F2.0	VT-3	2/14/96	
11715-WMKS-0103BH	R-31	2'-RC-53-1502-Q1	1A	F-B	F2.0	VT-3	2/15/96	
11715-WMKS-0103BH	R-32	2'-RC-53-1502-Q1	1A	F-B	F2.0	VT-3	2/15/96	
11715-WMKS-0103BH	R-36	2'-RC-53-1502-Q1	1A	F-A	F1.0	VT-3	2/15/96	
11715-WMKS-0103BH	SW-32	2'-RC-220-1502-Q1	1A	B-J	B9.21	PT	2/29/96	
11715-WMKS-0103BH	SW-33	2'-RC-220-1502-Q1	1A	B-J	B9.21	PT	2/29/96	
11715-WMKS-0103CD	15A	2'-CH-A-02-1502-Q1	1A	B-J	B9.21	PT	2/25/96	
11715-WMKS-0103CD	25	2'-CH-A-02-1502-Q1	1A	B-J	B9.21	PT	2/25/96	
11715-WMKS-0103CD	R-1	3'-CH-A-01-1502-Q1	1A	F-B	F2.0	VT-3	2/14/96	2
11715-WMKS-0103CD	R-17	2'-CH-A-02-1502-Q1	1A	F-B	F2.0	VT-3	2/20/96	
11715-WMKS-0103CD	R-9	2'-CH-A-02-1502-Q1	1A	F-B	F2.0	VT-3	2/20/96	
11715-WMKS-0103CD	SW-52	2'-CH-A-02-1502-Q1	1A	B-J	B9.21	PT	3/1/96	
11715-WMKS-0103CD	SW-53	2'-CH-A-02-1502-Q1	1A	B-J	B9.21	PT	3/1/96	
11715-WMKS-0103CD	SW-58	2'-CH-A-02-1502-Q1	1A	B-J	B9.21	PT	2/25/96	
11715-WMKS-0103CD	SW-59	2'-CH-A-02-1502-Q1	1A	B-J	B9.21	PT	2/25/96	
11715-WMKS-0103CD	SW-60	2'-CH-A-02-1502-Q1	1A	B-J	B9.21	PT	2/25/96	
11715-WMKS-0103CD	SW-61	2'-CH-A-02-1502-Q1	1A	B-J	B9.21	PT	2/23/96	
11715-WMKS-0103K	21	6'-SI-131-1502-Q1	2A	C-F-1	C5.11	PT/UT	2/20/96	
11715-WMKS-0103K	6	6'-SI-131-1502-Q1	1A	B-J	B9.11	PT/UT	2/26/96	
11715-WMKS-0103K	R-197	6'-SI-131-1502-Q1	1A	F-B	F2.0	VT-3	2/16/96	3
11715-WMKS-0103K	SW-31	6'-SI-133-1502-Q1	1A	B-J	B9.11	PT/UT	2/22/96	
11715-WMKS-0103K	SW-51	6'-SI-132-1502-Q1	1A	B-J	B9.11	PT/UT	2/21/96	
11715-WMKS-0103K	SW-53	6'-SI-131-1502-Q1	1A	B-J	B9.11	PT/UT	2/29/96	
11715-WMKS-0103K	SW-57	6'-SI-131-1502-Q1	1A	B-J	B9.11	PT/UT	2/26/96	
11715-WMKS-0103L	29H	6'-SI-131-1502-Q1	1A	B-K-1	B10.10	PT	2/25/96	
11715-WMKS-0103L	RH-200	6'-SI-131-1502-Q1	1A	F-B	F2.0	VT-3	2/16/96	
11715-WMKS-0103L	SW-7	6'-SI-131-1502-Q1	1A	B-J	B9.11	PT/UT	2/25/96	
11715-WMKS-0103L	SW-8	6'-SI-131-1502-Q1	1A	B-J	B9.11	PT/UT	2/25/96	
11715-WMKS-0103N	HSS-109	6'-SI-131-1502-Q1	1A	F-C	F3.0	VT-3	2/22/96	
11715-WMKS-0103T	26	6'-SI-132-1502-Q1	1A	B-J	B9.11	PT/UT	2/21/96	
11715-WMKS-0103T	9	6'-SI-132-1502-Q1	1A	B-J	B9.11	PT/UT	2/25/96	
11715-WMKS-0103T	R-180	6'-SI-132-1502-Q1	1A	F-A	F1.0	VT-3	2/16/96	
11715-WMKS-0103T	RH-186	6'-SI-132-1502-Q1	1A	F-B	F2.0	VT-3	2/16/96	4
11715-WMKS-0103T	RH-191	6'-SI-132-1502-Q1	1A	F-C	F3.0	VT-3	2/16/96	
11715-WMKS-0103U	SW-14	6'-SI-132-1502-Q1	1A	B-J	B9.11	PT/UT	2/28/96	
11715-WMKS-0103W	41	6'-RC-20-1502-Q1	1A	B-J	B9.11	PT/UT	2/18/96	
11715-WMKS-0103W	SW-55	2'-SI-55-1502-Q1	1A	B-J	B9.40	PT	2/18/96	
11715-WMKS-0103Y	7	6'-SI-133-1502-Q1	1A	B-J	B9.11	PT/UT	2/22/96	
11715-WMKS-0103Y	RH-204	6'-SI-133-1502-Q1	1A	F-B	F2.0	VT-3	2/15/96	
11715-WMKS-0104A-1	11	6'-SI-16-1502-Q1	2A	C-F-1	C5.11	PT/UT	3/5/96	
11715-WMKS-0104A-1	SW-18	10'-SI-15-1502-Q1	2A	C-F-1	C5.11	PT/UT	3/5/96	
11715-WMKS-0104A-1	SW-19	10'-SI-15-1502-Q1	2A	C-F-1	C5.11	PT/UT	3/5/96	
11715-WMKS-0104A-2	7A	10'-SI-18-1502-Q1	2A	C-F-1	C5.11	PT/UT	3/5/96	
11715-WMKS-0104A-2	R-36	10'-SI-140-1502-Q1	2A	F-B	F2.0	VT-3	2/13/96	
11715-WMKS-0104C	11	12'-SI-2-153A-Q2	2A	C-F-1	C5.11	PT/UT	3/4/96	
11715-WMKS-0104C	SW-37	12'-SI-215-153A-Q2	2A	C-F-1	C5.11	PT/UT	3/4/96	
11715-WMKS-0104E-1	LS-41(SW-34)	12'-RS-7-153A-Q2	2A	C-F-1	C5.12	PT/UT	3/4/96	
11715-WMKS-0104E-1	LS-55(10A)	12'-RS-8-153A-Q2	2A	C-F-1	C5.12	PT/UT	3/4/96	
11715-WMKS-0104E-1	SW-34	12'-RS-7-153A-Q2	2A	C-F-1	C5.11	PT/UT	3/4/96	
11715-WMKS-0104E-2	51	8'-RS-J68-153A-Q2	2A	C-F-1	C5.11	PT/UT	3/3/96	
11715-WMKS-0104K	64A	12'-SI-5-153A-Q3	2A	C-F-1	C5.11	PT/UT	3/5/96	
11715-WMKS-0104K	75	12'-SI-214-153A-Q2	2A	C-F-1	C5.11	PT/UT	1/24/96	
11715-WMKS-0104K	LS-69(70) INT.	10'-SI-213-153A-Q3	2A	C-F-1	C5.12	PT/UT	3/5/96	
11715-WMKS-0104K	LS-69(70) EXT.	10'-SI-213-153A-Q3	2A	C-F-1	C5.12	PT/UT	3/5/96	
11715-WMKS-0104K	R-33E	10'-SI-214-153A-Q2	2A	F-A	F1.0	VT-3	2/25/95	
11715-WMKS-0107B	R-168A	8'-SI-49-153A-Q2	2A	F-B	F2.0	VT-3	2/13/96	

DRAWING NUMBER	MARK NUMBER	LINE NUMBER	CLASS	SECTION XI CATEGORY	ITEM	EXAM METHOD	EXAM DATE	REMARKS
11715-WMKS-0107C	LS-91(SW-87)	6'-QS-19-153A-Q3	2A	C-F-1	C5.12	PT/UT	1/16/96	
11715-WMKS-0107C	LS-91(SW-88)	6'-QS-19-153A-Q3	2A	C-F-1	C5.12	PT/UT	1/17/96	
11715-WMKS-0107C	SW-86	6'-QS-19-153A-Q3	2A	C-F-1	C5.11	PT/UT	1/16/96	
11715-WMKS-0107C	SW-87	6'-QS-19-153A-Q3	2A	C-F-1	C5.11	PT/UT	1/16/96	
11715-WMKS-0107D	LS-83(SW-71)	6'-QS-12-153A-Q3	2A	C-F-1	C5.12	PT/UT	1/17/96	
11715-WMKS-0107D	LS-83(SW-72)	6'-QS-12-153A-Q3	2A	C-F-1	C5.12	PT/UT	1/17/96	
11715-WMKS-0107D	SW-67	8'-QS-3-153A-Q3	2A	C-F-1	C5.11	PT/UT	1/11/96	
11715-WMKS-0107D	SW-71	6'-QS-12-153A-Q3	2A	C-F-1	C5.11	PT/UT	1/17/96	
11715-WMKS-0107F	S-67	10'-QS-2-153A-Q3	2A	F-B	F2.0	VT-3	1/22/96	
11715-WMKS-0107F	SW-67A	10'-QS-2-153A-Q3	2A	F-C	F3.0	VT-3	1/11/96	
11715-WMKS-0107M	R-93	8'-SI-40-153A-Q2	2A	F-B	F2.0	VT-3	1/11/96	
11715-WMKS-0109A	4	8'-RC-11-2501R-Q1	1A	B-J	B9.11	PT/UT	2/14/96	
11715-WMKS-0109B	1	8'-RC-12-2501R-Q1	1A	B-J	B9.11	PT/UT	2/15/96	
11715-WMKS-0109B	MOV-1586 BOLTING	8'-RC-12-2501R-Q1	1A	B-G-2	B7.70	VT-1	2/16/96	
11715-WMKS-0109B	SW-8	8'-RC-12-2501R-Q1	1A	B-J	B9.32	PT	2/15/96	
11715-WMKS-0109C	MOV-1587 BOLTING	8'-RC-13-2501R-Q1	1A	B-G-2	B7.70	VT-1	2/16/96	
11715-WMKS-0109C	SW-8	8'-RC-13-2501R-Q1	1A	B-J	B9.32	PT	2/15/96	
11715-WMKS-0109D	HSS-101A	14'-RC-10-2501R-Q1	1A	F-C	F3.0	VT-3	2/22/96	5
11715-WMKS-0109F-2	SW-23	31'-RC-5-2501R-Q1	1A	B-J	B9.32	PT	2/16/96	
11715-WMKS-0109F-2	SW-40	27 1/2'-RC-6-2501R-Q1	1A	B-J	B9.32	PT	2/24/96	
11715-WMKS-0109G-1	32	31'-RC-8-2501R-Q1	1A	B-J	B9.11	PT/UT	2/18/96	Partial
11715-WMKS-0109G-1	33	27 1/2'-RC-9-2501R-Q1	1A	B-J	B9.11	PT/UT	2/17/96	Partial
11715-WMKS-0109G-2	SW-31	27 1/2'-RC-9-2501R-Q1	1A	B-J	B9.32	PT	2/16/96	
11715-WMKS-0109G-2	SW-32	29'-RC-7-2501R-Q1	1A	B-J	B9.31	PT/UT	2/16/96	
11715-WMKS-0109G-2	SW-40	31'-RC-8-2501R-Q1	1A	B-J	B9.32	PT	2/16/96	
11715-WMKS-0109G-2	SW-41	27 1/2'-RC-9-2501R-Q1	1A	B-J	B9.31	PT/UT	2/15/96	Partial
11715-WMKS-0109G-2	SW-41	31'-RC-8-2501R-Q1	1A	B-J	B9.32	PT	2/16/96	
11715-WMKS-0109G-2	SW-42	31'-RC-8-2501R-Q1	1A	B-J	B9.32	PT	2/16/96	
11715-WMKS-0109G-2	SW-43	27 1/2'-RC-9-2501R-Q1	1A	B-J	B9.31	PT/UT	2/15/96	Partial
11715-WMKS-0110B-1	35	4'-RC-15-1502-Q1	1A	B-J	B9.11	PT/UT	3/2/96	
11715-WMKS-0110B-1	36	4'-RC-15-1502-Q1	1A	B-J	B9.11	PT/UT	3/2/96	
11715-WMKS-0110B-1	8	4'-RC-15-1502-Q1	1A	B-J	B9.11	PT/UT	3/2/96	
11715-WMKS-0110B-1	SW-14	4'-RC-15-1502-Q1	1A	B-J	B9.11	PT/UT	3/2/96	
11715-WMKS-0110B-2	A-8	4'-RC-14-1502-Q1	1A	F-A	F1.0	VT-3	2/15/96	
11715-WMKS-0110B-2	SW-74	3/4'-RC-67-1502-Q1	1A	B-J	5	PT	3/2/96	
11715-WMKS-0111AB	A-21	6'-CH-18-153A-Q2	2A	F-A	F1.0	VT-3	2/13/96	
11715-WMKS-0111B	SH-37	8'-SI-40-153A-Q2	2A	F-C	F3.0	VT-3	2/12/96	6
11715-WMKS-0111BA	26A	2'-CH-68-1502-Q1	1A	B-J	B9.21	PT	2/23/96	
11715-WMKS-0111BA	28	2'-CH-68-1502-Q1	1A	B-J	B9.21	PT	2/21/96	
11715-WMKS-0111BA	29	2'-CH-68-1502-Q1	1A	B-J	B9.21	PT	2/21/96	
11715-WMKS-0111BA	30	2'-CH-68-1502-Q1	1A	B-J	B9.21	PT	2/21/96	
11715-WMKS-0111BA	31	2'-CH-68-1502-Q1	1A	B-J	B9.21	PT	2/21/96	
11715-WMKS-0111BA	R-5	2'-CH-68-1502-Q1	1A	F-B	F2.0	VT-3	2/14/96	
11715-WMKS-0111C	R-7	8'-CH-17-153A-Q2	2A	F-B	F2.0	VT-3	2/12/96	
11715-WMKS-0111D	A-35	8'-SI-40-153A-Q2	2A	F-A	F1.0	VT-3	2/12/96	
11715-WMKS-0111Q	R-543	3'-SI-24-1502-Q2	2A	F-B	F2.0	VT-3	2/13/96	
11715-WMKS-0111XA	22H	3'-CH-3-1502-Q2	2A	C-C	C3.20	PT	3/6/96	
11715-WMKS-0111XA	A-154	3'-CH-11-1502-Q2	2A	F-A	F1.0	VT-3	2/24/96	
11715-WMKS-0111XA	A-173A	3'-CH-3-1502-Q2	2A	F-A	F1.0	VT-3	2/12/96	
11715-WMKS-0111XA	R-101	3'-CH-81-1502-Q2	2A	F-B	F2.0	VT-3	2/12/96	
11715-WMKS-0111XA	R-119	3'-CH-267-1502-Q2	2A	F-B	F2.0	VT-3	2/12/96	
11715-WMKS-0111XA	R-120	3'-CH-267-1502-Q2	2A	F-B	F2.0	VT-3	2/13/96	
11715-WMKS-0111XA	R-122	3'-CH-267-1502-Q2	2A	F-B	F2.0	VT-3	2/12/96	
11715-WMKS-0111XB	R-166	3'-CH-11-1502-Q2	2A	F-B	F2.0	VT-3	2/12/96	
11715-WMKS-0111XB	R-167	3'-CH-11-1502-Q2	2A	F-B	F2.0	VT-3	2/12/96	
11715-WMKS-0111XC	A-578	3'-CH-11-1502-Q2	2A	F-A	F1.0	VT-3	2/12/96	
11715-WMKS-0111XC	R-493	2'-CH-96-1502-Q2	2A	F-B	F2.0	VT-3	2/12/96	
11715-WMKS-0111XC	R-499	2'-CH-96-1502-Q2	2A	F-B	F2.0	VT-3	2/12/96	
11715-WMKS-0111XD	A-179	3'-CH-71-1502-Q2	2A	F-A	F1.0	VT-3	2/12/96	7
11715-WMKS-0111XD	A-3	2'-CH-266-1502-Q2	2A	F-A	F1.0	VT-3	2/12/96	
11715-WMKS-0111XD	R-178	3'-CH-71-1502-Q2	2A	F-B	F2.0	VT-3	2/23/96	
11715-WMKS-0111XE	15	2'-CH-380-1502-Q2	2A	C-F-1	C5.30	PT	3/6/96	
11715-WMKS-0111XE	87A	2'-CH-381-1502-Q2	2A	C-F-1	C5.30	PT	3/6/96	
11715-WMKS-0111XE	A-1	2'-CH-114-1502-Q2	2A	F-A	F1.0	VT-3	2/12/96	



DRAWING NUMBER	MARK NUMBER	LINE NUMBER	CLASS	SECTION XI CATEGORY	ITEM	EXAM METHOD	EXAM DATE	REMARKS
11715-WMKS-0111XE	A-3	2'-CH-22-1502-Q2	2A	F-A	F1.0	VT-3	2/12/96	
11715-WMKS-0111XE	SW-97	2'-CH-381-1502-Q2	2A	C-F-1	C5.30	PT	3/6/96	
11715-WMKS-0111XF	33	2'-SI-53-1502-Q2	2A	C-F-1	C5.30	PT	2/23/96	
11715-WMKS-0111XF	A-1	2'-SI-53-1502-Q2	2A	F-A	F1.0	VT-3	2/14/96	
11715-WMKS-0111XF	R-10	2'-SI-53-1502-Q2	2A	F-B	F2.0	VT-3	2/14/96	
11715-WMKS-0111XF	R-13	2'-SI-53-1502-Q2	2A	F-B	F2.0	VT-3	2/14/96	
11715-WMKS-0111XF	R-9	2'-SI-53-1502-Q2	2A	F-B	F2.0	VT-3	2/14/96	
11715-WMKS-0111XG	38A	2'-SI-55-1502-Q2	2A	C-F-1	C5.30	PT	2/22/96	
11715-WMKS-0111XG	A-1	2'-SI-55-1502-Q2	2A	F-A	F1.0	VT-3	2/14/96	
11715-WMKS-0111XG	R-2	2'-SI-55-1502-Q2	2A	F-B	F2.0	VT-3	2/14/96	
11715-WMKS-0111XH	44	2'-SI-51-1502-Q2	2A	C-F-1	C5.30	PT	2/27/96	
11715-WMKS-0111XH	48	2'-SI-51-1502-Q2	2A	C-F-1	C5.30	PT	3/1/96	
11715-WMKS-0111XH	49	2'-SI-51-1502-Q2	2A	C-F-1	C5.30	PT	2/14/96	
11715-WMKS-0111XH	5A	2'-SI-51-1502-Q2	2A	C-F-1	C5.30	PT	3/1/96	
11715-WMKS-0111XH	89	2'-SI-51-1502-Q2	2A	C-F-1	C5.30	PT	2/25/96	
11715-WMKS-0111XH	R-11	2'-SI-51-1502-Q2	2A	F-B	F2.0	VT-3	2/19/96	
11715-WMKS-0111XH	R-13	2'-SI-51-1502-Q2	2A	F-B	F2.0	VT-3	2/14/96	
11715-WMKS-0111XH	SW-13W	2'-SI-51-1502-Q2	2A	C-F-1	C5.30	PT	3/1/96	
11715-WMKS-0111XJ	A-558	3'-SI-136-1502-Q2	2A	F-A	F1.0	VT-3	2/12/96	
11715-WMKS-0111XJ	R-518	3'-SI-136-1502-Q2	2A	F-B	F2.0	VT-3	2/12/96	
11715-WMKS-0111XK	SW-65	3'-SI-23-1502-Q2	2A	C-F-1	C5.30	PT	2/27/96	
11715-WMKS-0111XL	A-80	3'-SI-138-1502-Q2	2A	F-A	F1.0	VT-3	2/16/96	
11715-WMKS-0111XM	A-142	3'-SI-160-1502-Q2	2A	F-A	F1.0	VT-3	2/12/96	
11715-WMKS-0111XM	A-525	3'-SI-137-1502-Q2	2A	F-A	F1.0	VT-3	2/12/96	
11715-WMKS-0111XM	A-527	3'-SI-56-1502-Q2	2A	F-A	F1.0	VT-3	2/12/96	
11715-WMKS-0111XN	53	3'-SI-17-1502-Q1	2A	C-F-1	C5.30	PT	2/22/96	
11715-WMKS-0111XN	83	2'-SI-51-1502-Q1	2A	C-F-1	C5.30	PT	2/22/96	
11715-WMKS-0111XN	85	2'-SI-51-1502-Q1	2A	C-F-1	C5.30	PT	2/22/96	
11715-WMKS-0111XN	SW-31	2'-SI-51-1502-Q1	2A	C-F-1	C5.30	PT	2/22/96	
11715-WMKS-0113A-1	11	14'-RH-2-602-Q2	2A	C-F-1	C5.11	PT/UT	2/22/96	
11715-WMKS-0113A-1	43	14'-RH-2-602-Q2	2A	C-F-1	C5.11	PT/UT	2/24/96	
11715-WMKS-0113A-1	HSS-109D	14'-RH-1-1502-Q1	1A	F-C	F3.0	VT-3	2/22/96	
11715-WMKS-0113A-2	SH-14	14'-RH-3-602-Q2	2A	F-C	F3.0	VT-3	2/14/96	8
11715-WMKS-0113A-2	SW-1W(53)	14'-RH-3-602-Q2	2A	C-F-1	C5.12	PT/UT	2/24/96	
11715-WMKS-0113A-2	SW-1W(54)	14'-RH-3-602-Q2	2A	C-F-1	C5.12	PT/UT	2/24/96	
11715-WMKS-0113A-2	SW-99(53)	14'-RH-3-602-Q2	2A	C-F-1	C5.12	PT/UT	2/24/96	
11715-WMKS-0113A-2	SW-99(54)	14'-RH-3-602-Q2	2A	C-F-1	C5.12	PT/UT	2/24/96	
11715-WMKS-0113A-3	RH-10	10'-RH-8-602-Q2	2A	F-B	F2.0	VT-3	2/20/96	
11715-WMKS-0113A-3	SW-16	12'-RH-15-602-Q2	2A	C-F-1	C5.11	PT/UT	2/20/96	
11715-WMKS-0113A-4	6	12'-SI-67-1502-Q1	1A	B-J	B9.11	PT/UT	2/26/96	
11715-WMKS-0113A-4	R-14	12'-SI-67-1502-Q1	1A	F-B	F2.0	VT-3	2/14/96	
11715-WMKS-0113B	HSS-101C	12'-SI-68-1502-Q1	1A	F-C	F3.0	VT-3	2/23/96	
11715-WMKS-0113B	R-4	12'-SI-68-1502-Q1	1A	F-A	F1.0	VT-3	2/15/96	
11715-WMKS-0113B	SI-144 BOLTING	12'-SI-68-1502-Q1	1A	B-G-2	B7.70	VT-1	2/14/96	9
11715-WMKS-0113C-1	A-241	10'-RH-32-1502-Q2	2A	F-A	F1.0	VT-3	2/14/96	
11715-WMKS-0113C-1	SW-3	10'-RH-32-1502-Q2	2A	C-F-1	C5.11	PT/UT	2/28/96	
11715-WMKS-0113C-2	SH-5	12'-RH-11-602-Q2	2A	F-C	F3.0	VT-3	2/14/96	
11715-WMKS-0113C-3	26	12'-SI-69-1502-Q1	1A	B-J	B9.11	PT/UT	2/26/96	
11715-WMKS-0113C-3	29	12'-RC-24-1502-Q1	1A	B-J	B9.11	PT/UT	2/17/96	
11715-WMKS-0113C-3	42	12'-SI-69-1502-Q1	1A	B-J	B9.11	PT/UT	2/21/96	
11715-WMKS-0113C-3	HSS-104	12'-SI-69-1502-Q1	1A	F-C	F3.0	VT-3	2/22/96	
11715-WMKS-0113C-3	R-1	10'-RH-14-1502-Q1	1A	F-A	F1.0	VT-3	2/15/96	
11715-WMKS-0113C-3	RH-8	12'-SI-69-1502-Q1	1A	F-B	F2.0	VT-3	2/16/96	
11715-WMKS-0113C-3	SI-161 BOLTING	12'-SI-69-1502-Q1	1A	B-G-2	B7.70	VT-1	2/16/96	
11715-WMKS-0113C-3	SW-5	12'-SI-69-1502-Q1	1A	B-J	B9.11	PT/UT	2/17/96	
11715-WMKS-0113C-3	SW-52	12'-SI-69-1502-Q1	1A	B-J	B9.11	PT/UT	2/17/96	
11715-WMKS-0113C-3	SW-8	12'-SI-69-1502-Q1	1A	B-J	B9.11	PT/UT	3/1/96	Partial
11715-WMKS-CH-FL-4A	SUPT-LEG-1	1-CH-FL-4A	2A	F-A	F1.0	VT-3	2/22/96	
11715-WMKS-CH-FL-4A	SUPT-LEG-2	1-CH-FL-4A	2A	F-A	F1.0	VT-3	2/22/96	
11715-WMKS-CH-FL-4A	SUPT-LEG-3	1-CH-FL-4A	2A	F-A	F1.0	VT-3	2/22/96	
11715-WMKS-RC-E-1A.1	WS-2A	1-RC-E-1A	2A	C-C	C3.10	MT	2/26/96	
11715-WMKS-RC-E-1A.2	HSS-011A	1-RC-E-1A	1A	F-C	F3.0	VT-3	2/17/96	
11715-WMKS-RC-E-1A.2	HSS-001A	1-RC-E-1A	1A	F-C	F3.0	VT-3	2/18/96	
11715-WMKS-RC-E-1A.2	R-002A	1-RC-E-1A	1A	F-B	F2.0	VT-3	2/21/96	

DRAWING NUMBER	MARK NUMBER	LINE NUMBER	CLASS	SECTION XI CATEGORY	ITEM	EXAM METHOD	EXAM DATE	REMARKS
11715-WMKS-RC-E-1A.2	R-004A	1-RC-E-1A	1A	F-B	F2.0	VT-3	2/21/96	
11715-WMKS-RC-E-1B.1	TUBING HL SIDE	1-RC-E-1B	1A	B-G	B16.20	ET	2/28/96	
11715-WMKS-RC-E-1B.1	CL-MANWAY	1-RC-E-1B	1A	B-G-2	B7.30	VT-1	2/19/96	
11715-WMKS-RC-E-1B.1	HL-MANWAY	1-RC-E-1B	1A	B-G-2	B7.30	VT-1	2/19/96	
11715-WMKS-RC-E-1B.2	09NIR	1-RC-E-1B	2A	C-B	C2.22	UT	2/24/96	
11715-WMKS-RC-E-1C.1	6	1-RC-E-1C	2A	C-A	C1.10	UT	2/29/96	
11715-WMKS-RC-E-1C.2	10	1-RC-E-1C	2A	C-B	C2.21	MT/UT	2/27/96	
11715-WMKS-RC-E-2	9	1-RC-E-2	1A	B-D	B3.110	VT-2	2/11/96	NDE-17
11715-WMKS-RC-E-2	09NIR	1-RC-E-2	1A	B-D	B3.120	VT-2	2/11/96	NDE-17
11715-WMKS-RC-E-2	GROUP (IMM HTR)	1-RC-E-2	1A	B-E	B4.20	VT-2	2/11/96	
11715-WMKS-RC-E-2	MANWAY	1-RC-E-2	1A	B-G-2	B7.20	VT-1	2/24/96	
11715-WMKS-RC-E-2	RING	1-RC-E-2	1A	F-A	F1.0	VT-3	2/19/96	
11715-WMKS-RC-MOV1594	NUT-1-24	1-RC-MOV-1594	1A	B-G-1	B6.230	VT-1	2/20/96	
11715-WMKS-RC-MOV1594	STUD-1-24	1-RC-MOV-1594	1A	B-G-1	B6.210	UT	2/19/96	
11715-WMKS-RC-MOV1595	NUT-1-24	1-RC-MOV-1595	1A	B-G-1	B6.230	VT-1	2/20/96	
11715-WMKS-RC-MOV1595	STUD-1-24	1-RC-MOV-1595	1A	B-G-1	B6.210	UT	2/19/96	
11715-WMKS-RC-P-1C.2	B01 THRU B24	1-RC-P-1C	1A	B-G-1	B6.180	UT	2/20/96	
11715-WMKS-RC-P-1C.2	LSHS	1-RC-P-1C	1A	B-G-2	B7.60	VT-1	2/22/96	
11715-WMKS-RC-R-1.1	GROUP	1-RC-R-1	1A	B-E	B4.10	VT-1	3/6/96	SPT-11
11715-WMKS-RC-R-1.2	MC-02	1-RC-R-1	1A	B-G-2	B7.80	VT-1	2/29/96	
11715-WMKS-RC-R-1.2	MC-03	1-RC-R-1	1A	B-G-2	B7.80	VT-1	2/29/96	
11715-WMKS-RC-R-1.3	S-20	1-RC-R-1	1A	B-G-1	B6.30	MT/UT	2/23/96	
11715-WMKS-RC-R-1.3	S-31 THRU S-49	1-RC-R-1	1A	B-G-1	B6.30	MT/UT	2/23/96	
11715-WMKS-RC-R-1.4	CCW-20	1-RC-R-1	1A	B-G-1	B6.50	VT-1	2/21/96	
11715-WMKS-RC-R-1.4	CCW-31 - CCW-49	1-RC-R-1	1A	B-G-1	B6.50	VT-1	2/21/96	
11715-WMKS-RC-R-1.4	CVW-20	1-RC-R-1	1A	B-G-1	B6.50	VT-1	2/21/96	
11715-WMKS-RC-R-1.4	CVW-31 CVW-49	1-RC-R-1	1A	B-G-1	B6.50	VT-1	2/21/96	
11715-WMKS-RC-R-1.4	N-20	1-RC-R-1	1A	B-G-1	B6.10	MT	2/21/96	
11715-WMKS-RC-R-1.4	N-31 THRU N-49	1-RC-R-1	1A	B-G-1	B6.10	MT	2/21/96	
11715-WMKS-RH-E-1A	4B	1-RH-E-1A	2A	C-B	C2.31	PT	2/22/96	
11715-WMKS-RH-E-1B	3	1-RH-E-1B	2A	C-B	C2.33	VT-2	2/14/96	
11715-WMKS-RH-E-1B	4	1-RH-E-1B	2A	C-B	C2.33	VT-2	2/14/96	
11715-WMKS-RS-P-2B	6B	1-RS-P-2B	2A	C-G	C6.10	PT	1/23/96	
11715-WMKS-RS-P-2B	LS-9	1-RS-P-2B	2A	C-G	C6.10	PT	1/23/96	
11715-WMKS-SI-P-1B	5	1-SI-P-1B	2A	C-G	C6.10	PT	1/22/96	
11715-WMKS-SI-P-1B	H-603A	1-SI-P-1B	2A	F-B	F2.0	VT-3	1/19/96	
11715-WMKS-SI-P-1B	H-603B	1-SI-P-1B	2A	F-B	F2.0	VT-3	1/19/96	
11715-WMKS-SI-P-1B	LS-5	1-SI-P-1B	2A	C-G	C6.10	PT	1/22/96	
11715-WMKS-SI-TK-2	LEG-3	1-SI-TK-2	2A	F-A	F1.0	VT-3	12/13/95	

Component support A-179 on drawing 11715-WMKS-0111XD was found to have two loose anchor bolt nuts and one missing anchor bolt nut, refer to item 7 of Results. Corrective action was required to restore it to its design condition. As required by IWF-2430(a) the following additional examinations were performed.

11715-WMKS-0111AB	A-16	6'-CH-72-153A-Q2	2A	F-B	F2.0	VT-3	3/12/96
11715-WMKS-0111AB	A-26	6'-CH-19-153A-Q2	2A	F-B	F2.0	VT-3	3/12/96
11715-WMKS-0111XA	A-100	3'-CH-81-1502-Q2	2A	F-B	F2.0	VT-3	3/12/96
11715-WMKS-0111XA	A-100A	3'-CH-81-1502-Q2	2A	F-B	F2.0	VT-3	3/12/96
11715-WMKS-0111XA	A-151	3'-CH-2-1502-Q2	2A	F-B	F2.0	VT-3	3/12/96
11715-WMKS-0111XA	A-151A	3'-CH-2-1502-Q2	2A	F-B	F2.0	VT-3	3/12/96
11715-WMKS-0111XA	A-176	3'-CH-70-1502-Q2	2A	F-B	F2.0	VT-3	3/12/96
11715-WMKS-0111XD	A-173	3'-CH-3-1502-Q2	2A	F-B	F2.0	VT-3	3/12/96
11715-WMKS-0111XD	R-17B	3'-CH-71-1502-Q2	2A	F-B	F2.0	VT-3	2/23/96
11715-WMKS-0111XD	R-181	3'-CH-71-1502-Q2	2A	F-B	F2.0	VT-3	3/12/96

The following examination were performed to satisfy an NRC commitment, refer to page 9 of Attachment 1.

11715-WMKS-RC-E-1A.1	8	1-RC-E-1A	2A	C-A	C1.20	UT	2/23/96
11715-WMKS-RC-E-1C.1	8	1-RC-E-1C	2A	C-A	C1.20	UT	2/27/96



Docket Number: 50-338  
Serial Number: 96-154  
Attachment 1  
Page 15 of 19

The following examination was performed at the request of the NRC to examine a weld in the ASME Section XI exempt portion of quench spray. The weld is exempt per IWC-1221(f). This examination will not receive ASME Section XI credit and the ANII was not involved.

11715-WMKS-0104H 17

8'-QS-37-153A-Q2

UT

3/5/96

Remarks - A number in the remarks column refers to the item number in the Results section in Attachment 1 pages 7 and 8. Partial in the remarks column means the ASME Section XI area and or volume was not achieved and a relief request will be submitted to the NRC. Remarks NDE-17 and SPT-11 are approved relief requests in the ISI Program.

### System Pressure Tests

The following inservice leak test were performed to complete the second period requirements.

- 1-BD-001 "A" steam generator blowdown, Class 2. Test was completed on 2/11/96.
- 1-BD-002 "B" steam generator blowdown, Class 2. Test was completed on 2/11/96.
- 1-BD-003 "C" steam generator blowdown, Class 2. Test was completed on 2/11/96.
- 1-CA-001 Instrument air supply to containment penetration 47, Class 2. Test was completed on 2/22/96.
- 1-CA-002 Compressed air system to containment penetration 42, Class 2. Test was completed on 2/12/96.
- 1-CA-004 Compressed air system radiation monitor sample penetration 43, Class 2. Test was completed on 2/13/96.
- 1-CC-001 Component cooling to RHR heat exchanger, 1-RH-E-1A, Class 2 & 3. Test was completed on 2/11/96.
- 1-CC-002 Component cooling to RHR heat exchanger, 1-RH-E-1B, Class 2 & 3. Test was completed on 2/11/96.
- 1-CC-003 Component cooling supply/return to 1-RC-P-1A, Class 2 & 3. Test was completed on 2/11/96.
- 1-CC-004 Component cooling supply/return to 1-RC-P-1B, Class 2 & 3. Test was completed on 2/11/96.
- 1-CC-005 Component cooling supply/return to 1-RC-P-1C, Class 2 & 3. Test was completed on 2/11/96.
- 1-CC-006 Component cooling to and from recirculation air cooling coils, Class 2. Test was completed on 2/11/96.
- 1-CH-002 Normal charging system letdown, Class 2. Test was completed on 2/11/96.
- 1-CH-003 Normal charging system, Class 1 and 2. Test was completed on 2/11/96.
- 1-CH-004 Excess letdown heat exchanger and seal water return system, Class 1. Test was completed on 2/11/96.

- 1-CH-006 Normal charging system seal injection supply and return to the reactor coolant pumps, Class 1 and 2. Test was completed on 2/11/96.
- 1-CV-003 Containment vacuum air ejector suction penetration 94, Class 2. Test was completed on 2/13/96.
- 1-DA-001 Containment sump discharge, penetration 38, Class 2. The test was completed on 2/11/96.
- 1-DA-003 Primary vent header, penetration 48, Class 2. The test was completed on 2/12/96.
- 1-FW-001 Auxiliary feedwater pumps, Class 2 and 3. The test was completed on 2/11/96.
- 1-FW-002 Auxiliary feedwater pumps, Class 2 and 3. The test was completed on 2/11/96.
- 1-FW-003 Auxiliary feedwater pumps, Class 2 and 3. The test was completed on 2/11/96.
- 1-HC-002 Containment atmosphere cleanup, penetration 31, Class 2. The test was completed on 2/13/96.
- 1-HC-004 Containment atmosphere cleanup, penetration 109, Class 2. The test was completed on 2/13/96.
- 1-HV-001 Containment purge and exhaust, penetration 91, Class 2. The test was completed on 2/11/96.
- 1-HV-002 Containment purge and exhaust, penetration 90, Class 2. The test was completed on 2/11/96.
- 1-MS-001 Feedwater to 1-RC-E-1A, main steam to 1-MS-NRV-101A, Class 2 and 3. The test was completed on 2/11/96.
- 1-MS-002 Feedwater to 1-RC-E-1B, main steam to 1-MS-NRV-101B, Class 2 and 3. The test was completed on 2/11/96.
- 1-MS-003 Feedwater to 1-RC-E-1C, main steam to 1-MS-NRV-101C, Class 2 and 3. The test was completed on 2/11/96.
- 1-RC-001 Reactor coolant, Class 1. The test was completed on 3/10/96.
- 1-RC-002 PG supply to the PRT, penetration 45, Class 2. The test was completed on 2/12/96.
- 1-SI-001 Safety injection "A" accumulator, Class 1 and 2. The test was completed on 2/11/96/

- 1-SI-002 Safety injection "B" accumulator, Class 1 and 2. The test was completed on 2/11/96/
- 1-SI-003 Safety injection "C" accumulator, Class 1 and 2. The test was completed on 2/11/96/
- 1-SI-005 Safety injection N2 supply to accumulators, penetration 53, Class 2. The test was completed on 2/15/96/
- 1-SI-007 Safety injection accumulator makeup, penetration 20, Class 2. The test was completed on 2/15/96.
- 1-SI-009 Safety injection "A" pump, Class 2. The test was completed on 3/1/96.
- 1-SI-010 Safety injection "B" pump, Class 2. The test was completed on 3/1/96.
- 1-SI-011 Safety injection high head alternate charging, Class 2. The test was completed on 3/11/96.
- 1-SI-012 Safety injection high head, Class 2. The test was completed on 3/3/96.
- 1-SI-013 Safety injection high head normal charging, Class 2. The test was completed on 3/3/96.
- 1-SI-014 Safety injection high head reactor coolant loop injections, Class 1 and 2. The test was completed on 3/3/96.
- 1-SI-015 Safety injection low head to penetration 60, Class 2. The test was completed 3/3/96.
- 1-SI-016 Safety injection low head to penetration 61, Class 2. The test was completed 3/3/96.
- 1-SI-017 Safety injection low head to penetration 62, Class 2. The test was completed 3/3/96.
- 1-VP-001 Vacuum priming air ejector vent, penetration 89, Class 2. The test was completed on 2/15/96.

### Snubber Replacements

A total of 84 snubbers were replaced as part of the Tech. Spec. Functional test program. Out of the 84 snubbers tested there were no functional test failures.

Due to functional test failures in previous refueling outages, four snubbers had to be removed for retest. Out of the four snubbers tested there were no functional test failures.

A total of two snubbers were replaced and functionally tested to resolve various visual anomalies. Out of the two snubbers tested there was one failure, 1-CH-HSS-810 on 11715-WMKS-103AU. This snubber was tested since it was found during the snubber visual inspection program to have only a 5-10% fluid level. The cause of the failure was attributed to the bottom of the reservoir being cracked allowing the fluid to leak out. Since this snubber failed the functional test, it was counted as a visual test failure in determining the next visual inspection interval. However, since this was the only visual failure this outage, no change in the visual inspection interval was required.

Snubber removal and installation for the Tech. Spec. Functional test and visual inspection programs are considered maintenance activities and not ASME Section XI repairs and replacements. The ANII was not involved in the review of this work.

### STEAM GENERATOR EDDY CURRENT

In steam generator "B" 1798 tubes were inspected full length with bobbin probes. Three hundred twenty four tubes were also inspected at the hot leg "top of tubesheet" transition with RPC probes. No reportable indications were revealed by this inspection.

**ATTACHMENT 2**

**1996 UNIT 1 REFUELING OUTAGE  
INSERVICE INSPECTION SUMMARY REPORT**

**OWNER'S REPORT OF REPAIRS AND REPLACEMENTS**

**NORTH ANNA POWER STATION - UNIT 1  
P.O. BOX 402  
MINERAL, VA 23117**

**COMMERCIAL SERVICE DATE 6-6-78**

**APRIL 11, 1996**

**VIRGINIA ELECTRIC AND POWER COMPANY  
5000 DOMINION BOULEVARD  
GLEN ALLEN, VA 23060**



### Repairs and Replacements

Repairs and replacements completed during this inservice inspection period were performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code, 1983 Edition Summer 1983 Addenda.

The following paragraphs and the attached NIS-2 Forms (Attachment 2, pages 4 thru 45) represent those repairs and replacements performed on Class 1 or Class 2 systems:

- 94-387 - Repaired ten indications on monoball support 1-FW-PH-R-34 on drawing 11715-WMKS-102A, Class 2 (Work Order 303128-01). The repair was completed on 2/21/96.
- 95-040 - Replaced manway bolting on refueling water storage tank 1-QS-TK-1, Class 2, (Work Order 312456-01). The replacement was completed on 3/28/95.
- 95-053 - Replaced body to bonnet bolting on 1-QS-MOV-102A, Class 2 (Work Order 313379-01). Replacement was completed on 3/23/95. Plant Deviation Report 95-457.
- 95-305 - Repair linear indication on spare charging pump casing, Class 2 (Work Order 322216-01). Repair was completed on 8/9/95.
- 95-324 and 96-035 - Replaced manway bolting and installed diaphragm in the refueling water storage tank 1-QS-TK-1, Class 2 (Work Order 325050-01). The repair was completed on 3/4/96.
- 95-334 - Replaced gate valve 1-RS-95, Class 2 (Work Order 283518-01). Replacement was completed on 3/7/96.
- 95-377 - Replace body to bonnet bolting on 1-QS-40, Class 2 (Work Order 321973-01). Replacement was completed on 2/21/96.
- 95-379 - Replace body to bonnet bolting and bonnet on 1-QS-24, Class 2 (Work Order 321975-01). Replacement was completed on 2/23/96.
- 95-385 - Replaced bolting on temperature element 1-QS-TE-100B, Class 2, (Work Order 330139-01). The replacement was completed on 2/22/96.
- 95-424 - Replaced flange bolting on the suction side of 1-CH-P-1A, Class 2, (Work Order 332735-02). The replacement was completed on 1/5/96.
- 96-010 - Replaced the inlet flange bolting on 1-MS-SV-101A, Class 2, (Work Order 311210-01). Replacement was completed on 2/13/96.
- 96-012 - Replaced the inlet flange bolting on 1-MS-SV-101C, Class 2, (Work Order 311212-01). Replacement was completed on 2/14/96.

- 96-013 - Replaced the inlet flange bolting on 1-MS-SV-102A, Class 2, (Work Order 311213-01). Replacement was completed on 2/13/96.
- 96-015 - Replaced the inlet flange bolting on 1-MS-SV-102C, Class 2, (Work Order 311215-01). Replacement was completed on 2/14/96.
- 96-016 - Replaced the inlet flange bolting on 1-MS-SV-103A, Class 2, (Work Order 311216-01). Replacement was completed on 2/13/96.
- 96-018 - Replaced the inlet flange bolting on 1-MS-SV-103C, Class 2, (Work Order 311218-01). Replacement was completed on 2/14/96.
- 96-019 - Replaced the inlet flange bolting on 1-MS-SV-104A, Class 2, (Work Order 311219-01). Replacement was completed on 2/13/96.
- 96-021 - Replaced the inlet flange bolting on 1-MS-SV-104C, Class 2, (Work Order 311221-01). Replacement was completed on 2/14/96.
- 96-022 - Replaced the inlet flange bolting on 1-MS-SV-105A, Class 2, (Work Order 311222-01). Replacement was completed on 2/13/96.
- 96-024 - Replaced the inlet flange bolting on 1-MS-SV-105C, Class 2, (Work Order 311224-01). Replacement was completed on 2/14/96.
- 96-025 - Installed 20 plugs in the existing flow holes of the lower internals core barrel, Class 1, (Work Order 321728-01). Replacement was complete on 2/27/96.
- 96-031 - Replaced flange bolting for 1-RC-SV-1551A, Class 1, (Work Order 311248-01). Replacement was completed on 2/29/96.
- 96-033 - Replaced flange bolting for 1-RC-SV-1551C, Class 1, (Work Order 311250-01). The replacement was completed on 2/29/96.
- 96-074 - Replaced valve flange studs on 1-FW-111, Class 2, (Work Order 336238-01). The replacement was completed on 2/28/96
- 96-076 - Replaced reducing couplings and pipe caps on 1-SI-LT-1920, 1922, 1924, 1926, 1928, and 1930, Class 2 (Work Orders 322813-01, 322814-01, 322815-01). The replacement was completed on 3/1/96.
- 96-081 - Replaced gate valve, 1-WT-505, and associated piping, Class 2 (Work Order 302769-02). The replacement was completed on 3/10/96.
- 96-085 - Replaced a hot leg primary manway stud for the "A" steam generator, Class 1, (Work Order 318510-01). The replacement was completed on 2/19/96.
- 96-086 - Replaced valve flange bolting on 1-RH-FCV-1605, Class 2, (Work Order 336643-01). The replacement was completed on 2/21/96.

- 96-092 - Repaired inlet flange face of 1-RC-SV-1551B, Class 1, (Work Order 311249-01). The repair was completed on 3/25/96.
- 96-105 - Replaced body to bonnet studs and nuts on 1-QS-12, Class 2, (Work Order 299179-01). The replacement was completed on 2/24/96.
- 96-107 - Replaced seat ring, plug, and stem on 1-CH-HCV-1200A, Class 1, (Work Order 325797-01). The replacement was completed on 2/25/96.
- 96-108 - Replaced seat ring, plug, and stem on 1-CH-HCV-1200B, Class 1, (Work Order 321268-02). The replacement was completed on 2/24/96.
- 96-109 - Replaced seat ring, plug, and stem on 1-CH-HCV-1200C, Class 1, (Work Order 321194-01). The replacement was completed on 2/25/96.
- 96-111 - Replaced valve flange bolting on 1-RH-1, Class 2, (Work Order 336824-02). The work was complete on 2/27/96.
- 96-112 - Replaced valve flange bolting on 1-RH-9, Class 2, (Work Order 336769-01). The work was complete on 2/24/96.
- 96-126 - Replaced bolting on pipe support RH-200 on line 6"-SI-131-1502-Q1 shown on drawing 11715-WMKS-103L, Class 1, (Work Order 336166-01). The replacement was completed on 2/25/96.
- 96-127 and 96-131 - Replaced valve disc and replaced one stud and one nut on MS-TV-101B, Class 2 (Work Order 311228-01). The replacement was completed on 2/24/96.
- 96-135 - Replaced missing hilti nut on pipe support 1-CH-A-179 on line 3'-CH-71-1502-Q2 shown on drawing 11715-WMKS-0111XD, Class 2, (Work Order 337156-01). The replacement was completed on 2/27/96.
- 96-138 - Repaired arc strike on the "C" steam generator head, Class 2, (Work Order 337203-01). The repair was completed on 3/1/96.
- 96-143 - Repaired arc strike on a pressurizer nozzle, Class 1, (Work Order 337322-01). The repair was completed on 3/5/96.
- 96-153 - Repaired gouges on the exterior of valve body of 1-SI-201, Class 1, (Work Order 337617-01). The repair was complete on 3/5/96.
- 96-154 - Replaced valve internals and bolting on 1-BD-TV-100A, Class 2 (Work Order 311006-01). The replacement was completed on 3/6/96.

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

1. Owner Virginia Electric & Power Company Date 2-26-96  
 Name  
5000 Dominion Blvd, Glen Allen, VA 23060 Sheet 1 of 1  
 Address
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral, VA 23117 R/R Program 94-387 W.O. 303128-01  
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd, Glen Allen, VA 23060 Authorization No. N/A  
 Address Expiration Date 2/10
4. Identification of System Feedwater (FW)
5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, 1970 Addenda 78, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83w/5 83 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Monoball Support	Southwest Fab.	N/A	N/A	Weld SW-36 1-FW-PH-R-34	Unk.	Repaired	No

7. Description of Work Repaired multiple indications on monoball support integral attachment weld.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
Performed liquid penetrant examination of weld SW-36.  
 Application of Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date N/A  
 Signed S.P. Hamill ISI Engineer Date February 26, 19 96  
 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. E.E. of Hartford, CT have inspected the components described in this Owner's Report during the period 1/8/94 to 2/21/96, 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.

Mal M. Jones Commissions NDIS31 VA 424 I, N/A  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Feb. 27, 19 96



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

1. Owner Virginia Electric Power Company Date 3-27-95  
Name  
5000 Dominion Blvd Glen Allen, VA 23060  
Address
2. Plant North Anna Power Station Unit 1  
Name  
PO Box 402 Mineral, VA 23117  
Address R/R Program 95-040, W.O. 312456  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Company Type Code Symbol Stamp N/A  
Name  
5000 Dominion Blvd Glen Allen, VA 23060  
Address Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Quench Spray
5. (a) Applicable Construction Code B31.7 19 69 Edition, 1970 Addenda, 28, 29, 30, 31, 32, 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 \_\_\_\_\_
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
NUT, HEAVY HEX, 3/4"	N/A	N/A	N/A	1-QS-TK-1	UNK	Replaced	NO
STUD, STRUCTURAL 3/4"	N/A	N/A	N/A	1-QS-TK-1	UNK	Replaced	NO
NUT, HEAVY HEX, 3/4"	Texas Bolt Co	HT # 14652IX	N/A	1-QS-TK-1	1995	Replacement	NO
STUD, STRUCTURAL 3/4"	Texas Bolt Co	HT # 56678	N/A	1-QS-TK-1	1994	Replacement	NO

7. Description of Work Replace RWST Manway studs and Nuts
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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



FORM NIS-2 (Back)

9. Remarks ASME class 2  
 Applicable Manufacturer's Data Reports to be attached  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date N/A  
 Signed J.P. Hamill ISI Engineer Date March 28, 19 95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Virginia and employed by HSBTE of Hartford, CT have inspected the components described in this Owner's Report during the period 2/6/95 to 3/28/96, 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.

Mark M. Arce Commissions NB9531, VA424, INA  
 Inspector's Signature National Board, State, Province, and Endorsements  
 Date March 28 19 95

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

- Owner Virginia Electric & Power Company Date 3-27-95  
 Name  
5000 Dominion Blvd Glen Allen, VA 23060  
 Address
- Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402 Mineral, VA 23117  
 Address
- Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd Glen Allen, VA 23060  
 Address  
 Authorization No. N/A  
 Expiration Date N/A
- Identification of System Quench Spray
- (a) Applicable Construction Code B31.7 19 69 Edition, 1970 Addenda, 7E, 8V, 8JA, 11S Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 1983 Addenda
- Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Nut, Heavy HEX 1/2"	N/A	N/A	N/A	1-AS-MOV-102A N/A	UNK	Replaced	NO
STUD, STRUCTURAL, 1/2"	N/A	N/A	N/A	1-AS-MOV-102A N/A	UNK	Replaced	NO
Nut, Heavy HEX 1/2"	Texas Bolt Co	HT # 8575536 HT # 6030215	N/A	1-AS-MOV-102A N/A	1990 1988	Replacement	NO
STUD, STRUCTURAL, 1/2"	Texas Bolt Co	51350 HT # 53255A	N/A	1-AS-MOV-102A N/A	1993	Replacement	NO

- Description of Work Replace Valve Bonnet Studs and Nuts
- Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
 Applicable Manufacturer's Data Reports to be attached  
ANIE Hold Point to Witness Belting Replacement Missed, Reference  
DR # 95-457

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date N/A  
 Signed J.P. Hall, ISI Engineer Date March 28, 19 95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State  
 or Province of Virginia and employed by H. S. B. E. I. T. of  
Hartford, CT have inspected the components described  
 in this Owner's Report during the period 3/14/95 to 3/23/95, 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.

Mark M. Hall Commissions NB9531 VA424 I.N.A  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Apr. 20 19 95

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

1. Owner Virginia Electric and Power Company Date 8-14-95  
Name  
5000 Dominion Blvd., Glen Allen, VA 23060 Sheet 1 of 1  
Address
2. Plant North Anna Power Station Unit N/A  
Name  
P.O. Box 402, Mineral, VA 23117 W.O. 322216-01, R/R Program # 95-305  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
5000 Dominion Blvd., Glen Allen, VA 23060 Expiration Date N/A  
Address
4. Identification of System Chemical & Volume Control (CH)
5. (a) Applicable Construction Code ASME III 19 92 Edition, APR 8/14/95 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pump	Ingersoll-Dresser	UTC No. 5900055956	N/A	Spare	1994	Repaired	No

7. Description of Work Repaired linear indication on pump casing foot.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2.  
Performed Construction Code and ASME XI surface examinations.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed J.P. Hamill ISI Engineer Date August 14, 19 95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of 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 7/26/95 to 8/19/95, 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.

Mark M. Hone Commissions NB9531 VA424 I.N.A  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 14, 19 95



Docket Number: 50-338  
 Serial Number: 96-154  
 Attachment 2  
 Page 8 of 45

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

1. Owner Virginia Electric & Power Company Date 3-4-96  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Address  
 Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 403, Mineral VA 23060 Address  
R/R 95-324 # 96-035 W.O. 325050-01  
 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Guench Spray (GS)
5. (a) Applicable Construction Code NAS-191 \* 1978 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 E3 w/ SE3 Addenda  
 \* NAS-191 adopts API 650
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Flat head	Energy Steel & Supply Co.	Heat # V30462	N/A	1-GS-TK-1	1995	Replacement	No
Diaphragm	Energy Steel & Supply Co.	Heat # B176	N/A	1-GS-TK-1	1995	Replacement	No
Studs	Mackson, Inc.	Heat # m51182	N/A	1-GS-TK-1	1995	Replacement	No
Nuts	Texas Brit	Heat # 14652 IX	N/A	1-GS-TK-1	1995	Replacement	No

7. Description of Work Replaced manway, diaphragm, studs and nuts
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure Normal Op psi Test Temp. Normal Op °F

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



FORM NIS-2 (Back)

9. Remarks

ASME Class 2

Applicable Manufacturer's Data Reports to be attached

System hydrostatic test conducted at normal  
operating pressure

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

P. Naughton ISI Staff Engineer  
Owner or Owner's Designee, Title

Date

March 4

1996

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 HSB-I of Hartford, CT have inspected the components described in this Owner's Report during the period 2/3/95 to 3/4/96, 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.

Mark M. Allen  
Inspector's Signature

Commissions

NBPSI VARY ENA  
National Board, State, Province, and Endorsements

Date

March 6

1996

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

1. Owner Virginia Electric & Power Company Date 3-6-96  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Address  
 Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral VA 23117 Address  
R/R 95-334 W.O. 283516-01 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Recirc. Spray (RS)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda 7E, E1, E3(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 5 E3 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
4" Gate valve	Anchor/Darling	E2530-1-1	N/A	1-RS-95	1996	Replacement	No

7. Description of Work Replaced gate valve due to angled body and body bonnet surfaces. 3-8-96
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure Normal Op psi Test Temp. Normal Op °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
Applicable Manufacturer's Data Reports to be attached

Code Case N-416-1 was invoked to perform system leakage test after installation.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed J.P. Hamill ISI Engineer Date March 8, 19 96  
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.D.I.C. of Hartford, CT have inspected the components described in this Owner's Report during the period 2/25/94 to 3/7/96, 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.

Mal M. Amos Commissions NB 9531 VA 424 I, N, A  
Inspector's Signature National Board, State, Province, and Endorsements

Date March 12, 19 96

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

1. Owner Virginia Electric & Power Company Date 3-2-96  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Sheet 1 of 1  
 Address
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral VA 23117 RIR 95-377 w/o. 321973  
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System Quench Spray (QS)
5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, 1970 Addenda 78, 81, B31R, 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 w/s 83 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson, Inc	Heat # 18859 cN	N/A	1-QS-40	1996	Replacement	No
Nuts	Mackson, Inc	Heat # 8865334	N/A	1-QS-40	1996	Replacement	No
Bonnet	ITT Engineered Valve	90-59230-1	N/A	1-QS-40	1991	Replacement	No

7. Description of Work Replaced bonnet, studs, and nuts.
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks

ASME Class 2

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

Pat J. Naughton ISF Weld Engineer

Date

March 2

19 96

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.E. of Hartford, CT have inspected the components described in this Owner's Report during the period 7/16/95 to 2/21/96, 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.

Mal M. Hara  
Inspector's Signature

Commissions

NBPSJI

VA424

I, N, A

National Board, State, Province, and Endorsements

Date

March 4

19 96



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

1. Owner Virginia Electric & Power Company Date 3-2-96  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Address  
 Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral VA 23117 Address  
R/R 95-379 W.O. 321975 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd, Glen Allen, VA 23060 Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Quench Spray (QS)
5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, 1970 Addenda, 78, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 w/ 5 83 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson, Inc	Heat # 83116 PC	N/A	1-QS-24	1995	Replacement	No
Nuts	Mackson Inc	Heat # 97364	N/A	1-QS-24	1996	Replacement	No
Bonnet	ITT Grinnell Valve Co	84-55087-1-1	N/A	1-QS-24	1984	Replacement	No

7. Description of Work Replaced diaphragm bonnet, studs, and nuts. Programmatic Maintenance.
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks

ASME Class 2

Applicable Manufacturer's Data Reports to be attached

Replacement bolting meet the requirements of ASME III

Class 1 1992 Edition thru 1993 Addenda to use SA193

GR. B16. Eng Eval 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. repair or replacement

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

Pete J. Naughton ISI Staff Engineer  
Owner or Owner's Designee, Title

Date

March 2

19 96

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 HSRI of Hockfield, CT have inspected the components described in this Owner's Report during the period 2/16/95 to 2/23/96, 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.

Mark M. Allen  
Inspector's Signature

Commissions

NB8531, VA424, JNA  
National Board, State, Province, and Endorsements

Date

March 7

19 96

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

1. Owner Virginia Electric & Power Company Date 3-2-96  
 Name  
5000 Dominion Blvd Glen Allen VA 23060 Address  
 Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral VA 23117 Address  
R/R 95-385 W.O. 330 139 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Quench Spray (QS)
5. (a) Applicable Construction Code ANSI-B31.7 19 69 Edition, 1970 Addenda 78, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 of 5 83 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson Inc	Heat # 18659 ON	N/A	1-QS-TE-100B	1996	Replacement	No
Nuts	Mackson Inc	Heat # 8865334	N/A	1-QS-TE-100B	1996	Replacement	No

7. Description of Work Replaced flange studs and nuts

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

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
 Applicable Manufacturer's Data Reports to be attached  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date N/A  
 Signed Paul M. Hume ISI Staff Engineer Date March 2, 19 96  
 Owner of 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.E. of Hartford, CT have inspected the components described in this Owner's Report during the period 11/6/95 to 2/22/96, 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.

Paul M. Hume Commissions ND9531 VA424 IN/A  
 Inspector's Signature National Board, State, Province, and Endorsements  
 Date March 5, 19 96

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

1. Owner Virginia Electric & Power Company Date 1-19-96  
Name  
5000 Dominion Blvd., Glen Allen, VA 23060  
Address
2. Plant North Anna Power Station Sheet 1 of 1  
Name  
P.O. Box 402, Mineral VA 23117  
Address Unit 1  
R/R 95-424 W.O. 332735-02  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
Name  
5000 Dominion Blvd., Glen Allen, VA 23060  
Address Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Chemical & Volume Control System (CH)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda, 78, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/summer 83 Add

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Nuts	U.S. Bolt	Heat No. 98490	N/A	1-CH-P-1A	1994	Replacement	No
Studs	A&G Engr.	Heat No. 98432	N/A	1-CH-P-1A	1992	Replacement	No

7. Description of Work Replaced flange bolting on suction side of pump 1-CH-P-1A
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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



FORM NIS-2 (Back)

9. Remarks ASME Class 2

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed S. P. Hamill ISI Engineer Date January 19, 1996  
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.E.I. of Hartford, CT have inspected the components described in this Owner's Report during the period 1/3/96 to 1/5/96, 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.

Mark M. Hagan Commissions ND9531, VA424, I, N, A  
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 19, 1996

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

1. Owner Virginia Electric & Power Company Date 3-4-96  
Name  
5000 Dominion Blvd. Glen Allen, VA 23060  
Address
2. Plant North Anna Power Station Unit 1  
Name  
P.O. Box 402, Mineral, VA 23117  
Address  
R/R 96-010, W.O. 00311210-01  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
Name  
5000 Dominion Blvd. Glen Allen, VA 23060  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Main Steam (MS)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda, 7B, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 583 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson, Inc.	Heat No. 69453 LLA	N/A	1-MS-SV-101A	1996	Replacement	No
Nuts	Texas Bolt	Heat No. 6062311	N/A	1-MS-SV-101A	1995	Replacement	No

7. Description of Work Replaced inlet bolting on valve.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2.  
 Applicable Manufacturer's Data Reports to be attached  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date N/A  
 Signed P. Naughton ISI Staff Engineer Date March 5, 19 96  
 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 HSBII of Hartford, CT have inspected the components described in this Owner's Report during the period 1/2/96 to 2/13/96, 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.

Mark M. Hare Commissions NB2531, VA424 I, N, A  
 Inspector's Signature National Board, State, Province, and Endorsements  
 Date March 6, 19 96

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

1. Owner Virginia Electric & Power Company  
Name  
5500 Dominion Blvd. Glen Allen, VA 23060  
Address
- Date 3-4-96
- Sheet 1 of 1
2. Plant North Anna Power Station  
Name  
P.O. Box 402, Mineral, VA 23117  
Address
- Unit 1
- R/R 96-012 W.O. 00311212-C1  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company  
Name  
5500 Dominion Blvd. Glen Allen, VA 23060  
Address
- Type Code Symbol Stamp N/A
- Authorization No. N/A
- Expiration Date N/A
4. Identification of System Main Steam (MS)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda 7R, F1, B3(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 583 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson Inc	Heat No. 69453 LL &	N/A	1-MS-SV-101C	1996	Replacement	No
Nuts	Texas Bolt	Heat No. 6062311	N/A	1-MS-SV-101C	1995	Replacement	No

7. Description of Work Replaced inlet bolting on valve.

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

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed P. J. Naughton ISI Staff Engineer Date March 5, 19 96  
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 ASBIE of Hartford, CT have inspected the components described in this Owner's Report during the period 1/9/96 to 2/14/96, 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.

Mark M. Ansel Commissions NB5531 VA424 I, N, A  
Inspector's Signature National Board, State, Province, and Endorsements

Date March 6, 19 96



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

1. Owner Virginia Electric & Power Company  
Name  
5555 Dominion Blvd., Glen Allen, VA 23060  
Address
- Date 3-4-96
- Sheet 1 of 1
2. Plant North Anna Power Station  
Name  
P.O. Box 402, Mineral, VA 23117  
Address
- Unit 1
- R/R 96-013 W.O. 00311213-C1  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company  
Name  
5555 Dominion Blvd., Glen Allen, VA 23060  
Address
- Type Code Symbol Stamp N/A
- Authorization No. N/A
- Expiration Date 6/9
4. Identification of System Main Steam (MS)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda 7, 8, 8(R), 11, 5 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 5 & 8 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson, Inc	Heat No. 09453 LLG	N/A	1-MS-SV-102A	1996	Replacement	No
Nuts	Texas Bolt	Heat No. 6062311	N/A	1-MS-SV-102A	1995	Replacement	No

7. Description of Work Replaced inlet bolting on valve.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed PJ Naughton ISF Staff Engineer  
Owner or Owner's Designee, Title

Date March 5, 19 96

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 HSDEI of Hartford, CT have inspected the components described in this Owner's Report during the period 1/2/96 to 2/13/96, 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.

Mark M. Jones  
Inspector's Signature

Commissions NBISCI VA424 I, N/A  
National Board, State, Province, and Endorsements

Date March 6, 19 96

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

1. Owner Virginia Electric & Power Company Date 3-4-96  
 Name  
5500 Dominion Blvd. Glen Allen, VA 23060 Address  
 Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral, VA 23117 Address  
R/R 96-015, W.O. 00311215-01 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5500 Dominion Blvd. Glen Allen, VA 23060 Address  
 Authorization No. N/A  
 Expiration Date 6/96
4. Identification of System Main Steam (MS)
5. (a) Applicable Construction Code ANSI B31.7 1967 Edition, 1970 Addenda 7, 8, 9, 10, 11, 12, 13, 14, 15 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 5 & 3 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson, Inc.	Heat No. 69453 LLG	N/A	1-MS-SV-102C	1996	Replacement	No
Nuts	Texas Bolt	Heat No. 6062311	N/A	1-MS-SV-102C	1995	Replacement	No

7. Description of Work Replaced inlet bolting on valve.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
 Applicable Manufacturer's Data Reports to be attached  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date N/A  
 Signed PJ Naughton ISI Staff Engineer Date March 5 19 96  
 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 HSBIE of Hartford, CT have inspected the components described in this Owner's Report during the period 1/9/96 to 2/14/96, 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.

Mal M. Hane Commissions NBPSI VA424 INA  
 Inspector's Signature National Board, State, Province, and Endorsements  
 Date March 6 19 96

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

1. Owner Virginia Electric & Power Company Date 3-4-96  
Name  
5555 Dominion Blvd. Glen Allen, VA 23060  
Address  
 Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
Name  
P.O. Box 402, Mineral, VA 23117  
Address  
R/R 96-016, W.O. 00311216-C1  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
Name  
5555 Dominion Blvd. Glen Allen, VA 23060  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Main Steam (MS)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda, 78, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 583 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson, Inc.	Heat No. 69453 LLQ	N/A	1-MS-SV-103A	1996	Replacement	No
Nuts	Texas Bolt	Heat No. 6062311	N/A	1-MS-SV-103A	1995	Replacement	No

7. Description of Work Replaced inlet bolting on valve.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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



FORM NIS-2 (Back)

9. Remarks ASME Class 2

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed P. Naughton ISI Engineer  
Owner or Owner's Designee, Title

Date March 5, 19 96

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 HSDI of Hartford, CT have inspected the components described in this Owner's Report during the period 1/8/96 to 2/13/96, 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.

Mark M. Hane  
Inspector's Signature

Commissions ND7531 VA444 INA  
National Board, State, Province, and Endorsements

Date March 6 19 96

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

1. Owner Virginia Electric & Power Company Date 3-4-96  
 Name  
5555 Dominion Blvd, Glen Allen, VA 23060 Address  
 Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral, VA 23117 Address  
R/R 96-018, W.O. 00311218-C1 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5555 Dominion Blvd, Glen Allen, VA 23060 Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Main Steam (MS)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda 7B, F, B3R, 11S Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 523 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson Inc	Heat No 69453 LLQ	N/A	1-MS-SV-103C	1996	Replacement	No
Nuts	Texas Bolt	Heat No. 6062311	N/A	1-MS-SV-103C	1995	Replacement	No

7. Description of Work Replaced inlet bolting on valve.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
 Applicable Manufacturer's Data Reports to be attached  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date N/A  
 Signed P. Naughton ISI Staff Engineer Date March 5, 19 96  
 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.F. of Hartford, CT have inspected the components described in this Owner's Report during the period 1/2/96 to 2/14/96, 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.

Mark M. Hume Commissions NB5571 V4424 I.N.B.  
 Inspector's Signature National Board, State, Province, and Endorsements  
 Date March 6, 19 96

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

1. Owner Virginia Electric & Power Company  
Name  
5000 Dominion Blvd. Glen Allen, VA 23060  
Address
- Date 3-4-96
- Sheet 1 of 1
2. Plant North Anna Power Station  
Name  
P.O. Box 402, Mineral, VA 23117  
Address
- Unit 1
- R/R 96-019, W.O. 00311219-C1  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company  
Name  
5000 Dominion Blvd. Glen Allen, VA 23060  
Address
- Type Code Symbol Stamp N/A
- Authorization No. N/A
- Expiration Date N/A
4. Identification of System Main Steam (MS)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda 72(R), 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 583 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackay, Inc.	Heat No. 69453 LLQ	N/A	I-MS-SV-104A	1996	Replacement	No
Nuts	Texas Bolt	Heat No. 6062311	N/A	I-MS-SV-104A	1995	Replacement	No

7. Description of Work Replaced inlet bolting on valve.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
 Applicable Manufacturer's Data Reports to be attached  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp, N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed P. Naughton ISE Engineer Date March 5, 19 96  
 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.D.I.E of Hertford, CT. have inspected the components described in this Owner's Report during the period 1/2/96 to 2/13/96, 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.

Paul M. Hauer Commissions NB 9531 VAWY IMA  
 Inspector's Signature National Board, State, Province, and Endorsements

Date March 6 19 96



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

1. Owner Virginia Electric & Power Company  
Name  
5000 Dominion Blvd., Glen Allen, VA 23060  
Address
- Date 3-4-96
- Sheet 1 of 1
2. Plant North Anna Power Station  
Name  
P.O. Box 402, Mineral, VA 23117  
Address
- Unit 1
- R/R 96-021, W.O. 00311221-C1  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company  
Name  
5000 Dominion Blvd., Glen Allen, VA 23060  
Address
- Type Code Symbol Stamp N/A
- Authorization No. N/A
- Expiration Date N/A
4. Identification of System Main Steam (MS)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda 78, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 583 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson, Inc	Heat No. 6945344	N/A	1-MS-SV-104C	1996	Replacement	No
Nuts	Texas Bolt	Heat No. 6062311	N/A	1-MS-SV-104C	1995	Replacement	No

7. Description of Work Replaced inlet bolting on valve.

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

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

FORM NIC-2 (Back)

9. Remarks ASME Class 2

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed P. Naughton ISI Staff Engineer Date March 5, 19 96   
 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.D.I.E. of Wetford, CT have inspected the components described in this Owner's Report during the period 1/9/96 to 2/14/96, 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.

Mark M. Ames Commissions ND9671 V4424 I.N.A.   
 Inspector's Signature National Board, State, Province, and Endorsements

Date March 6, 19 96

Docket Number: 50-338  
Serial Number: 96-154  
Attachment 2  
Page 22 of 45

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

1. Owner Virginia Electric & Power Company Date 3-4-96  
Name  
5555 Dominion Blvd., Glen Allen, VA 23060 Address  
Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
Name  
P.O. Box 402, Mineral, VA 23117 Address  
R/R 96-022, W.O. 00311222-C1 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
Name  
5555 Dominion Blvd., Glen Allen, VA 23060 Address  
Authorization No. N/A  
Expiration Date N/A
4. Identification of System Main Steam (MS)
5. (a) Applicable Construction Code ANSI B31.7-1969 Edition, 1970 Addenda 7B, 83(R), 115 Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 583 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson, Inc.	Heat No. 64453212	N/A	1-MS-SV-105A	1996	Replacement	No
Nuts	Texas Bolt	Heat No. 6062311	N/A	1-MS-SV-105A	1995	Replacement	No

7. Description of Work Replaced inlet bolting on valve.

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

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed P. Naughton ISI Staff Engineer Date March 5 19 96  
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. T. of Hartford, CT have inspected the components described in this Owner's Report during the period 1/9/96 to 2/13/96, 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.

Mal M. Am... Commissions ND 5531 VA 424 I, N, A  
Inspector's Signature National Board, State, Province, and Endorsements

Date March 6 19 96

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

1. Owner Virginia Electric & Power Company  
Name  
5555 Dominion Blvd., Glen Allen, VA 23060  
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  
5555 Dominion Blvd., Glen Allen, VA 23060  
Address
4. Identification of System Main Steam (MS)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda 7, 8, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 583 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson Inc.	Heat No. 6945344	N/A	1-MS-SV-105C	1996	Replacement	No
Nuts	Texas Bolt	Heat No. 6062311	N/A	1-MS-SV-105C	1995	Replacement	No

7. Description of Work Replaced inlet bolting on valve.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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



FORM NIS-2 (Back)

9. Remarks ASME Class 2  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed P. J. Naughton I&I Staff Engineer Date March 5, 19 96  
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.D.I.F. of Hartford, CT have inspected the components described in this Owner's Report during the period 1/9/96 to 2/14/96, 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.

Mal M. Aue Commissions NB9531 V442V I.N.A.  
Inspector's Signature National Board, State, Province, and Endorsements

Date March 6, 19 96

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

1. Owner Virginia Electric & Power Company Date 3-4-96  
5000 Dominion Blvd., Glen Allen, VA 23060 Sheet 1 of 1  
 Address
2. Plant North Anna Power Station Unit 1  
P.O. Box 402, Mineral, VA 23117 R/R 96-025 W.O. 321728-01  
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
5000 Dominion Blvd., Glen Allen, VA 23060 Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System Reactor Coolant (RC)
5. (a) Applicable Construction Code ASME III 19 68 Edition, W 68 Addenda 2B, 1, 2, 3, 4, 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 w/ 583 Addenda.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Core Barrel Plugs	Penn State Tool & Die Corp.	VRA-2,3,5,6,7, 10, 12 thru 20, 25 thru 27, 29 thru 32	N/A	1-RC-R-1	1996	Replacement	No

7. Description of Work Installed 20 plugs in the existing flow holes of the lower internals core barrel.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class I

Applicable Manufacturer's Data Reports to be attached

Performed ASME XI Preservice VT-3 examination of plugs and  
flow holes.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed J.P. Hamill ISI Engineer  
Owner or Owner's Designee, Title

Date March 5, 19 96

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.D.E.I. of Hartford, CT have inspected the components described in this Owner's Report during the period 1/11/96 to 2/27/96, 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.

Michael M. Hamill  
Inspector's Signature

Commissions NBPSI VA NY IL MA  
National Board, State, Province, and Endorsements

Date March 6 19 96

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

1. Owner Virginia Electric & Power Company Date 3-4-96  
Name  
5000 Dominion Blvd., Glen Allen, VA 23060 Address  
Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
Name  
P.O. Box 402, Mineral, VA 23117 Address  
R/R 96-031, W.O. 311248-01 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
Name  
5000 Dominion Blvd., Glen Allen, VA 23060 Address  
Authorization No. N/A  
Expiration Date N/A
4. Identification of System Reactor Coolant (RC)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda, 78, 81, 83(R), 115 Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/s 83 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	NOVA	Heat No. 63183	N/A	I-RC-SV-1551A	1985	Replacement	No
Nuts	Texas Bolt	Heat No. 6062311	N/A	I-RC-SV-1551A	1995	Replacement	No

7. Description of Work Replaced studs and nuts.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 1

Applicable Manufacturer's Data Reports to be attached

Performed ASME XI Preservice VT-1 examination and Construction Code  
LP examination on replacement studs and nuts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed J.P. Hamill ISI Engineer  
Owner or Owner's Designee, Title

Date March 4, 19 96

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.D. II of Hartford, CT have inspected the components described in this Owner's Report during the period 2/11/96 to 2/25/96, 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.

Mark M. Hines  
Inspector's Signature

Commissions NB2571 V4484 I, N, A  
National Board, State, Province, and Endorsements

Date March 6 19 96



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

1. Owner Virginia Electric & Power Company Date 3-4-96  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Address  
 Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral VA 23117 Address  
R/R 96-033 W.O. 311250-1 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Reactor Coolant (RC)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda, 78, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1963 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	NOVA	Heat No. 63183	N/A	1-RC-SV-1551C	1985	Replacement	No
Nuts	Texas Bolt	Heat No. 6062311	N/A	1-RC-SV-155C	1995	Replacement	No

7. Description of Work Replaced studs and nuts.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 1

Applicable Manufacturer's Data Reports to be attached

Performed ASME XI Preservice VT-1 examination and Construction Code LP examination on replacement studs and nuts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp, N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed J.P. Hamill ISI Engineer Date March 4, 19 96  
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. D. E. E. of Hartford, CT have inspected the components described in this Owner's Report during the period 1/11/96 to 2/28/96, 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.

Mark M. Am... Commissions ND7631 VA424 INA  
Inspector's Signature National Board, State, Province, and Endorsements

Date March 6, 19 96

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

1. Owner Virginia Electric & Power Company Date 3-7-96  
 Name  
5000 Dominion Blvd Glen Allen VA 23060 Address  
 Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral VA 23117 Address  
R/R 96-074 W.O. 336238-01 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd Glen Allen VA 23060 Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Feedwater (FW)
5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, 1970 Addenda, 7E, 8, E3(R), 11S Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 E3 w/ S E3 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	ABG Eng.	Heat No. 84654 NAT	N/A	1-FW-III	1993	Replacement	No

7. Description of Work Replaced valve flange studs
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
 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 NIA

Certificate of Authorization No. NIA Expiration Date NIA

Signed P. J. Naughton - ISI Staff Engineer Date March 7, 19 96  
 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.D.F.E. of Hartford, CT have inspected the components described in this Owner's Report during the period 2/13/96 to 2/25/96, 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.

Mark M. Hane Commissions NBPSDI VA424 I, N.A.  
 Inspector's Signature National Board, State, Province, and Endorsements

Date March 8 1996

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

1. Owner Virginia Electric & Power Company Date 3-8-96  
 Name  
5000 Dominion Blvd., Glen Allen, VA 23060 Address  
 Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral, VA 23117 Address  
 W.O. 322813-01  
 W.O. 322814-01  
 R/R 96-076 DCP94-016 W.O. 322815-01  
 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd., Glen Allen, VA 23060 Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Safety Injection (SI)
5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, 1970 Addenda 7B, 81, 8XR, 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 w/ 583 Add.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No. Heat	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2" SS Pipe	PEXCO	435747	N/A	1-SI-LT-1920, 1922, 1924, 1926, 1928, 1930	1995	Replacement	No
2" x 1" Reducing Coupling	Alloy Stainless	Code: ASA No. A19471	N/A	1-SI-LT-A120, 1922, 1924, 1926, 1928, 1930	1980	Replacement	No
2" Pipe Cap	Alloy Stainless	Codes: CWI, FEM & ELD	N/A	1-SI-LT-1920, 1922, 1924, 1926, 1928, 1930	1986	Replacement	No

7. Description of Work Cut lines, installed reducing couplings and pipe caps to support installation of new level transmitters.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒  
 Other ☐ Pressure 660 psi Test Temp. Ambient °F

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



FORM NIS-2 (Back)

9. Remarks ASME Class 2.

Applicable Manufacturer's Data Reports to be attached

Performed LP examinations on replacement welds.

This R/R Program invokes the use of Code Case N-416-1.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed J.P. Hamill ISI Engineer Date March 8, 19 96  
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. of Hartford, CT have inspected the components described in this Owner's Report during the period 2/14/96 to 3/1/96, 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.

Mark M. Shaw Commissions V4424 INP  
Inspector's Signature National Board, State, Province, and Endorsements

Date March 27, 19 96

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

1. Owner Virginia Electric & Power Company Date 3-7-96  
 Name  
5000 Dominion Blvd. Glen Allen VA 23060  
 Address
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402 Mineral VA 23117  
 Address
3. Work Performed by Virginia Electric & Power Typ: Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd. Glen Allen VA 23060  
 Address
4. Identification of System Wat Layup
5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, 1970 Addenda 78, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 w/ Summer 83 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2" Gate Valve	Vogt	1-217176	N/A	1-WT-505	1995	Replacement	No

7. Description of Work Replaced gate valve and associated piping. Permanent repair after seal injection
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure Normal Op psi Test Temp. Normal Op °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
Applicable Manufacturer's Data Reports to be attached  
Performed LP examination of replacement weld.  
Code Case N-416-1 was invoked to perform system  
leakage test after installation.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed S. P. Hamill ISI Engineer Date March 11, 19 96  
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. E. of Hartford, CT have inspected the components described in this Owner's Report during the period 2/17/96 to 3/10/96, 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.

Mark M. Hase Commissions NO9531 V444 INA  
Inspector's Signature National Board, State, Province, and Endorsements

Date March 14 19 96

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

1. Owner Virginia Electric & Power Company Date 2-28-96  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Sheet 1 of 1  
 Address
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral VA 23117 R/R Program 96-085 W.O. 318510-01  
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System Reactor Coolant (RC)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda, 78, 81, 83(R) <sup>115</sup> Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 583 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
5/8 Manway Stud	Southern Bolt	Heat No. 8091931	N/A	1-RC-E-1B Hot Leg	1987	Replacement	No
5/8 Manway Nut	Southern Bolt	Heat No. 69542	N/A	1-RC-E-1B Hot Leg	1987	Replacement	No

7. Description of Work Replace hot leg manway stud.
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks

ASME Class 1

Applicable Manufacturer's Data Reports to be attached

Performed VT-1 and PT preservation

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

P. Naught I SI Staff Engineer

Date

March 6

19

96

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.D. E+E of Hartford, CT have inspected the components described in this Owner's Report during the period 2/19/96 to 2/19/96, 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.

Mal M. Furr  
Inspector's Signature

Commissions

ND9531 VA424 I.N.A  
National Board, State, Province, and Endorsements

Date

March 7 1996



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

1. Owner Virginia Electric & Power Company Date 2-29-96  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Address  
 Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402 Mineral VA 23117 Address  
R/R Program 96-086 w.o. 336643-1 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Residual Heat Removal (RH)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda, 78, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 583 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Nuts	Mackson	Heat No 8865334	N/A	1-RH-FCV-1605	1995	Replacement	No
Studs	A & G Engr.	69804 Heat Code GYT	N/A	1-RH-FCV-1605	1989	Replacement	No

7. Description of Work Replace flange bolting due to ferric acid on studs
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class Z

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed P. Naughton ISI Engineer Date February 29, 19 96  
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.D. I & I of Hartford, CT have inspected the components described in this Owner's Report during the period 2/19/96 to 2/21/96, 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.

Mark M. Hara Commissions NB 9531 VA 424 I, N, A  
Inspector's Signature National Board, State, Province, and Endorsements

Date March 5 19 96

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

1. Owner Virginia Electric & Power Company Date 3-4-96  
 Name  
5000 Dominion Blvd Glen Allen VA 23060 Address  
 Sheet 1 of 1
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral VA 23117 Address  
RIR96-092, Rev. 1 W.O. 311249-01 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Dresser Industries Type Code Symbol Stamp N/A  
 Name  
P.O. Box 1430, Alexandria, La 71309-1430 Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Reactor Coolant (RC)
5. (a) Applicable Construction Code ASME III 19 68 Edition, W 68 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 w/ SB3 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Safety Valve	Dresser Ind.	BM-06919	N/A	I-RC-SV-1551B	1973	Repaired	Yes

7. Description of Work Repaired inlet flange face by machining.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 1  
Performed PT of machined surface.  
Safety valve was tested for set pressure and seat leakage  
after repair at 2485 psig.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date N/A  
 Signed J.P. Hamill ISI Engineer Date April 8, 19 76  
 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 A.S.B.E.I. of Hartford, CT have inspected the components described in this Owner's Report during the period 2/22/86 to 3/25/86, 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.

Mark H. Haver Commissions ABPSI VARY I.N.A  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Apr. 8, 19 76

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

1. Owner Virginia Electric & Power Company Date 3-4-96  
 Name  
5000 Dominion Blvd Glen Allen VA 23060 Sheet 1 of 1  
 Address
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral VA 23117 R/R 96-105 w/o 299179-01  
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp  
 Name  
5000 Dominion Blvd Glen Allen VA 23060 Authorization No.  
 Address Expiration Date
4. Identification of System Quench Spray (QS)
5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, 1970 Addenda, 78, 83, 84, 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 w/ 5 83 Addenda.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson Inc.	Heat # 18659 ON	N/A	1-QS-12	1996	Replacement	No
Nuts	Mackson Inc.	Heat # 8665334	N/A	1-QS-12	1996	Replacement	No

7. Description of Work Replaced studs and nuts.
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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



FORM NIS-2 (Back)

9. Remarks

ASME Class 2

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

P. Naughton ISI Staff Eng.

Date

March 2

19 96

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.D.E.I. of Hartford, CT have inspected the components described in this Owner's Report during the period 2/22/96 to 2/24/96, 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.

Mark M. Hane  
Inspector's Signature

Commissions

ND2531 VA424 I.N.A

National Board, State, Province, and Endorsements

Date

March 5

19 96

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

1. Owner Virginia Electric & Power Company Date 3-1-96  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060  
 Address
2. Plant North Anna Power Station Sheet 1 of 1  
 Name  
P.O. Box 402, Mineral VA 23117  
 Address
3. Work Performed by Virginia Electric & Power Co. Unit 1  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060  
 Address
- Repair Organization P.O. No., Job No., etc. R/R 96-107 W.O. 325797
- Type Code Symbol Stamp N/A  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Chemical and Volume Control (CV)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda 78, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 583 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Seat Ring	Masonite	P400965 Heat # B7869H-14	N/A	1-CH-HCV-1200A	1996	Replacement	No
Plug	Masonite	P400456 Heat # B786109-144	N/A	1-CH-HCV-1200A	1991	Replacement	No
Stem	Masonite	Heat # 1860-B-1416	N/A	1-CH-HCV-1200A	1991	Replacement	No

7. Description of Work Valve leaks by. Replaced seat ring, plug, and stem.
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

8. Remarks ASME Class 1  
 Applicable Manufacturer's Data Reports to be attached  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date N/A  
 Signed P. Naughton ISI Staff Engineer Date March 1, 19 96  
 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.D.I.E. of Hartford, CT have inspected the components described in this Owner's Report during the period 2/22/96 to 2/25/96, 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.

Mark M. Hark Commissions ND9531 VA424 I, N, A  
 Inspector's Signature National Board, State, Province, and Endorsements  
 Date March 5, 19 96

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

1. Owner Virginia Electric & Power Company Date 3-1-96  
Name  
5000 Dominion Blvd, Glen Allen VA 23060  
Address
2. Plant North Anna Power Station Sheet 1 of 1  
Name  
P.O. Box 402, Mineral VA 23117  
Address Unit 1  
R/R Program 96-108 w.o. 321208-2  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
Name  
5000 Dominion Blvd, Glen Allen VA 23060  
Address Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Chemical and Volume Control (CH)
5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, 1970 Addenda, 78, 81, 83(R)<sup>115</sup> Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83w/ 583 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Seat Ring	Masonite/lan	P400965 Heat # 878674-14	N/A	1-CH-HCV- 1200B	1996	Replacement	No
Plug	Masonite/lan	P400456 Heat # 698709-144	N/A	1-CH-HCV- 1200B	1991	Replacement	No
Stem	Masonite/lan	1860-8-1416 Heat #	N/A	1-CH-HCV- 1200B	1991	Replacement	No

7. Description of Work Valve leaks by. Replaced seat, and plug, and stem.
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 1  
 Applicable Manufacturer's Data Reports to be attached  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date N/A  
 Signed P. Naughton Staff Engineer Date March 1, 19 96  
 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. D. I. T. of Hartford, CT have inspected the components described in this Owner's Report during the period 2/22/96 to 2/24/96, 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.

Mark M. Auer Commissions NB 9531 V4424 I, N, A  
 Inspector's Signature National Board, State, Province, and Endorsements  
 Date March 5 19 96



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

1. Owner Virginia Electric & Power Company  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060  
 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  
5000 Dominion Blvd, Glen Allen VA 23060  
 Address
4. Identification of System Chemical & Volume Control (CVI)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda, 78, 81, 83(A)<sup>115</sup> Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ 5 & 3 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Seat Ring	Mascherlan	P400465 Heat # 67867H-14	N/A	1-CH-HCV-1200C	1996	Replacement	No
Plug	Mascherlan	P400465 Heat # 646709-144	N/A	1-CH-HCV-1200C	1991	Replacement	No
Stem	Mascherlan	Heat # 186046-1416	N/A	1-CH-HCV-1200C	1991	Replacement	No

7. Description of Work Value leaks by. Replace seat, plug, and stem.
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 the size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks ASME Class 1

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed P. J. Naughton Staff Engineer Date 3-1- 19 96  
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. D. I. E. of Hartford, CT have inspected the components described in this Owner's Report during the period 2/22/96 to 2/25/96, 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.

Mark M. Hauer Commissions NB 9531 VA 424 I, N, A  
Inspector's Signature National Board, State, Province, and Endorsements

Date March 5 19 96

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

1. Owner Virginia Electric & Power Company  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060  
 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  
5000 Dominion Blvd, Glen Allen, VA 23060  
 Address
4. Identification of System Residual Heat Removal (RH)
5. (a) Applicable Construction Code ANSI-B31.7 19 69 Edition, 1970 Addenda 78, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 583 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson, Inc	Heat # 70215 NAR	N/A	1-RH-1	1996	Replacement	No
Nuts	Mackson, Inc	Heat # 1-802330 TR# 5138	N/A	1-RH-1	1995	Replacement	No

7. Description of Work Replaced flange bolting. Boric acid on studs and nuts.
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
 Applicable Manufacturer's Data Reports to be attached  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed P. Naughton ISI Steel Engineer Date March 1, 19 96  
 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.D. I & T of Hartford, CT have inspected the components described in this Owner's Report during the period 2/23/96 to 2/27/96, 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.

Mark M. Hagan Commissions NB3531, VA 464, I, N, A  
 Inspector's Signature National Board, State, Province, and Endorsements

Date March 4 19 96

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

1. Owner Virginia Electric & Power Company  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060  
 Address
- Date 3-4-96
- Sheet 1 of 1
2. Plant North Anna Power Station  
 Name  
P.O. Box 402, Mineral VA 23117  
 Address
- Unit 1
- R/R 96-112 W.O. 336769-01  
 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060  
 Address
- Type Code Symbol Stamp N/A
- Authorization No. N/A
- Expiration Date N/A
4. Identification of System Residual Heat Removal (RH)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda, 78, 81, 83(R), 115 Code Case
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/ SB3 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	Mackson, Inc.	Heat # 70215 NAR	N/A	1-RH-9	1996	Replacement	No
Nuts	Mackson Inc.	Heat # 1-802330 2235	N/A	1-RH-9	1996	Replacement	No

7. Description of Work Replaced studs and nuts.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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



FORM NIS-2 (Back)

9. Remarks

ASME Class 2

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

Rita J. Naughton I & II Staff Engineer  
Owner or Owner's Designee, Title

Date

March 4,

19 96

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.D.I.T. of Hartford, CT have inspected the components described in this Owner's Report during the period 2/23/96 to 2/24/96, 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.

Mark M. Hana

Inspector's Signature

Commissions

ND5531 VA424 I.N.A.

National Board, State, Province, and Endorsements

Date

March 6 19 96

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

1. Owner Virginia Electric & Power Company Date 3-4-96  
Name  
5000 Dominion Blvd. Glen Allen, VA 23060  
Address
2. Plant North Anna Power Station Sheet 1 of 1  
Name  
P.O. Box 402, Mineral, VA 22117  
Address Unit 1  
R/R 96-126, W.O. 336166-01  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
Name  
5000 Dominion Blvd. Glen Allen, VA 23060  
Address Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Safety Injection (SI)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda 78, 81, 82(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 w/ 83 Addenda.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Studs	NOVA	Heat No. 8097696	N/A	1-SI-PH-RH-131.200	1992	Replacement	NO
Nuts	Texas Bolt	Heat No. 6030316	N/A	1-SI-PH-RH-131.200	1990	Replacement	NO

7. Description of Work Replaced bolting on hanger
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 1 (IWF)  
Applicable Manufacturer's Data Reports to be attached  
Performed VT-3 examination of hanger after bolting was replaced.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed S.P. Hamill ISI Engineer Date March 4, 19 96  
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.D. I+E of Hedford, CT have inspected the components described in this Owner's Report during the period 2/24/96 to 2/25/96, 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.

Mark H. Hamill Commissions NBPSI VA NY  
Inspector's Signature National Board, State, Province, and Endorsements

Date March 7, 19 96

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

1. Owner Virginia Electric & Power Company Date 3-11-96  
Name  
5000 Dominion Blvd, Glen Allen, VA 23060 Sheet 1 of 1  
Address
2. Plant North Anna Power Station Unit 1  
Name 96-127  
P.O. Box 402, Mineral, VA 23117 R/R 96-131, W.O. 311228-01  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
5000 Dominion Blvd, Glen Allen, VA 23060 Expiration Date N/A  
Address
4. Identification of System Main Steam (MS)
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda 78, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/583 Add.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Disc	KETEMA/ Schutte & Koerting	321H-1	N/A	1-MS-TV-101B	1991	Replacement	No
Nuts	Texas Bolt	Heat No. 6653110	N/A	1-MS-TV-101B	1988	Replacement	No
Studs	Texas Bolt	Heat No. 8646494	N/A	1-MS-TV-101B	1987	Replacement	No

7. Description of Work Replaced valve disc, one stud and one nut.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
Performed MT examination on front and back of replacement disc.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed J.P. Hamill FSI Engineer Date March 11, 19 96  
 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.D.I.T. of Hartford, CT have inspected the components described in this Owner's Report during the period 2/24/96 to 2/24/96, 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.

Mark M. Hamill Commissions NDPS 31 VA 424 J.N.A.  
 Inspector's Signature National Board, State, Province, and Endorsements

Date March 18, 19 96

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

1. Owner Virginia Electric & Power Company Date 2-29-96  
 Name  
5000 Dominion Blvd. Glen Allen VA 23060 Sheet 1 of 1  
 Address
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral VA 23117 R/R 96-135 w.o. 337156-01  
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd. Glen Allen VA 23060 Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System Chemical and Volume Control (CH)
5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, 1970 Addenda, 78, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 w/ Summer 83 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
<u>Not</u>	<u>Hilti</u>	<u>N/A</u>	<u>N/A</u>	<u>1-CH-A-179</u>	<u>1990</u>	<u>Replacement</u>	<u>NO</u>

7. Description of Work Install missing hilti nut
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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



FORM NIS-2 (Back)

9. Remarks ASME Class 2  
 Applicable Manufacturer's Data Reports to be attached  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed P. Naughton ISI Engineer Date February 28, 19 96  
 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. of Hartford, CT have inspected the components described in this Owner's Report during the period 2/27/96 to 2/27/96, 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.

Mal M. Hae Commissions ND 2531 VA 424 IN 4  
 Inspector's Signature National Board, State, Province, and Endorsements

Date March 4 19 96

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

1. Owner Virginia Electric & Power Company Date 3-6-96  
 Name  
5000 Dominion Blvd Glen Allen VA 23060 Sheet 1 of 1  
 Address
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral VA 23117 R/R 96-138 W.O. 337203-01  
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd, Glen Allen, VA 23060 Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System Reactor Coolant (RC)
5. (a) Applicable Construction Code ASME III 19 68 Edition, Winter 68 Addenda, 1498 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 Ed. w/ 503 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	Westinghouse	<del>119723</del> 1263	<del>48</del> 68-69	1-RC-E-1C	<del>1971</del> 1971	Repair	Yes

7. Description of Work Removed arc strike by grinding.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
Performed UT thickness, MT, and VT after repair.  
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed P. Naught ISI Staff Engineer Date March 6, 19 96  
 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.D.I.E of Hartford, CT have inspected the components described in this Owner's Report during the period 2/22/96 to 2/1/96, 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.

Mark M. Hwa Commissions NB2531 VA 424 I, N, A  
 Inspector's Signature National Board, State, Province, and Endorsements

Date March 20, 19 96

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

1. Owner Virginia Electric & Power Company Date 3-6-96  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Sheet 1 of 1  
 Address
2. Plant North Anna Power Station Unit 1  
 Name  
P.O. Box 402, Mineral VA 23117 RIR 96-143 W.O. 337322-01  
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
 Name  
5000 Dominion Blvd, Glen Allen VA 23060 Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System Reactor Coolant (RC)
5. (a) Applicable Construction Code ASME III 1971 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 w/ 5 & 3 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pressurizer nozzle	Westinghouse	1271	GB-88	1-RC-E-Z	1972	Repair	Yes

7. Description of Work Removed arc strike on nozzle connected to 3/4-RC-222-1502-G1
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks

ASME Class 1

Applicable Manufacturer's Data Reports to be attached

Performed PT of repaired area.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

P. J. Naughton ISI Engineer  
Owner or Owner's Designee, Title

Date

March 6

19 96

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. & T. of Hartford, CT have inspected the components described in this Owner's Report during the period 2/24/96 to 3/5/96, 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.

Mark M. Hargis

Inspector's Signature

Commissions

NO 9531

VA424

I, N/A

National Board, State, Province, and Endorsements

Date

March 14

19 96

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

1. Owner Virginia Electric & Power Company  
Name  
5000 Dominion Blvd Glen Allen VA 23060  
Address
- Date 3-7-96
- Sheet 1 of 1
2. Plant North Anna Power Station  
Name  
P.O. Box 402, Mineral VA 23117  
Address
- Unit 1
- R/R 96-153 W.O. 337617-01  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company  
Name  
5000 Dominion Blvd, Glen Allen VA 23060  
Address
- Type Code Symbol Stamp N/A
- Authorization No. N/A
- Expiration Date N/A
4. Identification of System Safety Injection (SI)
5. (a) Applicable Construction Code Westinghouse Spec 676241 19 68 Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 w/ 5 & 3 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1-SI-201 CHECK VALVE	VELAN	Unknown	N/A	1-SI-201	Unknown	Repaired	No

7. Description of Work Repaired gauges on external of valve.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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



FORM NIS-2 (Back)

9. Remarks ASME Class 1  
 Applicable Manufacturer's Data Reports to be attached  
Perform PT and UT thickness of repaired area.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed P. J. Naughton ISA staff Engineer Date March 7, 19 86  
 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 A.S.B.I. of Hartford, CT have inspected the components described in this Owner's Report during the period 3/4/86 to 3/5/86, 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.

Mal M. Hara Commissions ND 9531 VA 424 INA  
 Inspector's Signature National Board, State, Province, and Endorsements

Date March 8 19 86

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

1. Owner Virginia Electric & Power Company Date 3-11-96  
Name  
5000 Dominion Blvd, Glen Allen VA 23060  
Address
2. Plant North Anna Power Station Sheet 1 of 1  
Name  
P.O. Box 402, Mineral, VA 22117  
Address Unit 1  
R/R 96-154, W.O. 311006-03  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Company Type Code Symbol Stamp N/A  
Name  
5000 Dominion Blvd, Glen Allen, VA 23060  
Address Authorization No. N/A  
 Expiration Date N/A
4. Identification of System Blowdown (BD)  
WAS-89
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, 1970 Addenda 78, 81, 83(R), 115 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 w/s 83 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Plug	Fisher	Heat No. 863695	N/A	1-BD-TV-100A	1987	Replacement	No
Nuts	Texas Bolt	Heat No. 8865334	N/A	1-BD-TV-100A	1995	Replacement	No
Studs	NOVA	Heat No. 62477	N/A	1-BD-TV-100A	1994	Replacement	No

7. Description of Work Repaired valve plug, bonnet studs & bonnet nuts.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks ASME Class 2  
 Applicable Manufacturer's Data Reports to be attached  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed J. P. Hamill ISI Engineer Date March 11, 19 96  
 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.E.I. of Hartford, CT have inspected the components described in this Owner's Report during the period 3/5/96 to 3/6/96, 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.

Mark M. Howe Commissions NDPSV VAYZY I.N.A.  
 Inspector's Signature National Board, State, Province, and Endorsements

Date March 12, 19 96

**ATTACHMENT 3**

**1996 UNIT 1 REFUELING OUTAGE  
INSERVICE INSPECTION SUMMARY REPORT**

**OWNER'S REPORT OF EVALUATION ANALYSES**

**NORTH ANNA POWER STATION - UNIT 1  
P.O. BOX 402  
MINERAL, VA 23117**

**COMMERCIAL SERVICE DATE 6-6-78**

**APRIL 11, 1936**

**VIRGINIA ELECTRIC AND POWER COMPANY  
5000 DOMINION BOULEVARD  
GLEN ALLEN, VA 23060**

### **Evaluation Analysis**

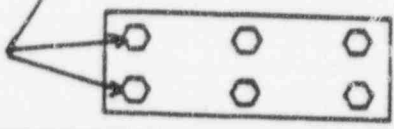
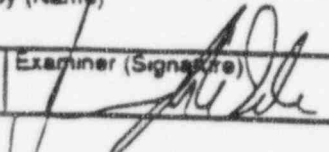
There was one component which had a condition exceeding the acceptance standards of IWF-3410 and was not repaired.

- A) Two anchor bolt nuts on pipe support R-1 on line 3"-CH-A-01-1502-Q1 shown on drawing 11715-WMKS-0103CD, Class 2, were found to have insufficient thread engagement. The condition was determined to be acceptable. The examination report and complete evaluation is on pages 2 through 5.

VT-3 Visual Examination Report, IWF  
Component Supports

NDER# 96-002

Attachment 13

1. Station <input type="checkbox"/> Surry <input checked="" type="checkbox"/> North Anna	Unit <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2	System CH	Drawing Number(s)/Revision 11715-WMKS-0103CD	Repair/Replacement No. (When Applicable) N/A
2. Remote N/A			Direct ✓	
3. Component inspected Line # 3"-CH-A-01-1502-01 Mark # R-1				
4. For Spring Hanger Manufacturer N/A		Model Number N/A	Spring Size N/A	
5. Work Order/DCP Number(s) (If Applicable) N/A				
6. Checklist				
For statements a through f, check the applicable selection for each condition.				
1. If the statement is true, check "Reject".				
2. If the statement is not true, check "Accept".				
3. If the statement does not apply, check "N/A". The use of "N/A" requires an explanation in the comment section (block 9) and may require re-examination.				
a. Structural degradation of the support where the cross-section is reduced			<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject <input type="checkbox"/> N/A	
b. Deformation or structural degradations of fasteners, springs, clamps, or other support items			<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject <input type="checkbox"/> N/A	
c. Missing, detached, or loosened support items			<input type="checkbox"/> Accept <input checked="" type="checkbox"/> Reject <input type="checkbox"/> N/A	
d. Arc strikes, weld spatter, paint, scoring roughness, or general corrosion on close tolerance machined or sliding surfaces			<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject <input type="checkbox"/> N/A	
e. Fluid loss beyond specific limits or lack of fluid indication (hydraulic snubbers only)			<input type="checkbox"/> Accept <input type="checkbox"/> Reject <input checked="" type="checkbox"/> N/A	
f. Improper hot or cold positions (snubber and spring supports)			<input type="checkbox"/> Accept <input type="checkbox"/> Reject <input checked="" type="checkbox"/> N/A	
7. Actual Setting: N/A Hot N/A Cold			Required Setting: N/A Hot N/A Cold	
8. Supplemental examination required? (Explanation required if "Yes") <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
9. Comments (Any item with "N/A" must be explained.) C. Two Anchor bolts in sufficient Thread engagement E. & F. Not a Spring or a Snubber				
				
10. ISI Engineer Notified - Notification Received By (Name) Date J. Naughton			Date 2-15-96	
11. Examiner (Print Name) Jerry A Wade		Examiner (Signature) 		Certification Level II
12. ANII (Signature)				Exam Date 2-14-96
				Date

Provide any comments concerning visual aids required, scaffolding, insulation removal or weld preparation in block 9 of this form.

Key: VT-Visual Testing, DCP-Design Change Package; ISI-In-Service Inspection;  
ANII-Authorized Nuclear In-service Inspection

Form No. 730572 Rev. 03



## NORTH ANNA SITE ENGINEERING SERVICES

NASES-6.05  
REV.1  
ATTACHMENT 1  
PAGE 1 OF 1

## ASME SECTION XI COMPONENT EXAMINATION PROGRAM

STATION ISI REQUEST REA # 96 - 007ENGINEERING EVALUATION

Class 1,2,43 NDE Problem Resolution

NP \_\_\_\_\_

COMPONENT NO. R-1 LINE NO. 3"-CH-A-01-1502-G1LOCATION DWG 11715-WMKS-103CD REFERENCE DWG 11715-PSSK-103CD.01REPORTED PROBLEM:Two anchor bolts have insufficient thread engagement.REPORTED BY: Pat J. Naughton DATE: 2-15-96 EXT. 2065Is the component operable in the current condition? ☒ yes ☐ noEVALUATION: THE SUPPORT HAS A 3/4" THICK BASE PLATE WITH (6) - 3/4"  $\phi$  MILITARY-KWIK

ANCHOR BOLTS THE ANCHOR STUDS. FOR THE TWO BOLTS IN QUESTION ARE JUST  
A SHADE SHY FROM BEING FLUSH WITH THE NUT SURFACE. THE NUTS HAVE  
10 THREADS PER INCH. (COARSE SERIES - UNF.) AND AS SUCH FULL THREAD  
ENGAGEMENT WILL MEAN ABOUT 7 1/2 THREADS. AT WORST THE NUTS ARE AT BEST  
2 THREADS SHY OF FULL ENGAGEMENT SO WE HAVE ABOUT 5 THREADS ENGAGED.  
3 FULL THREAD ENGAGEMENT IS ALL THAT IS REQUIRED TO DEVELOP THE FULL  
BOLT STRENGTH (REF. "Mechanical Engineering Design" SHIGLEY, I.E. McGraw-Hill  
ENGR. CO. PAGES 250 & 251) - ATTACHED

CORRECTIVE ACTION REQUIREDNONE NOTE: VA POWER USES STD-CEN-0029 Gr. B steel plate

design which does not reference the Construction Code of B31.7, hence; design & installation  
of pipe support base plates does not commit to the requirements of B31.7 or ASME XI.

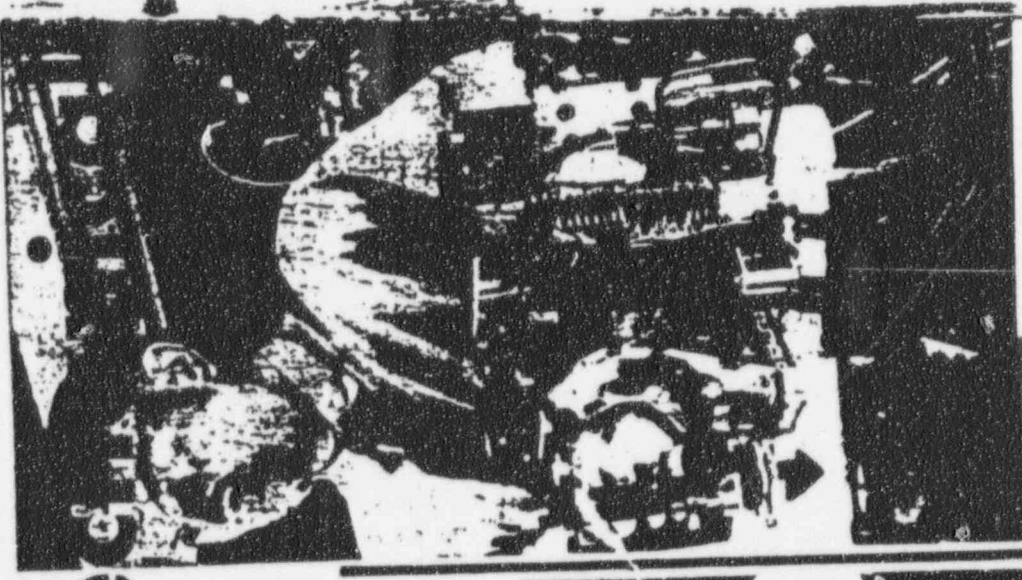
EVALUATED BY: J. Michael DATE: 2/26/96REVIEWED BY: C. H. Falciani DATE: 02-27-96

C. H. Falciani  
02-27-96  
RMP  
2/24/96

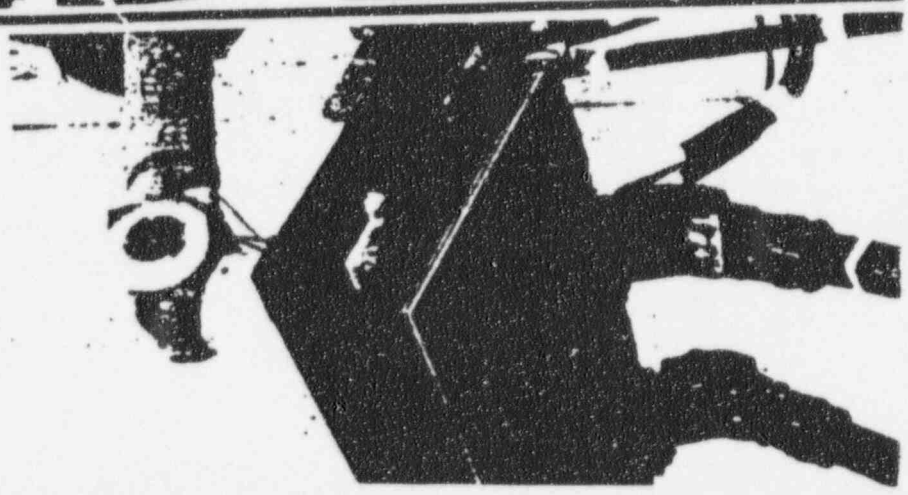
# Engineering Design

JOSEPH EDWARD SHIGLEY  
Professor of Mechanical Engineering  
University of Michigan

McGraw-Hill Book Company  
new york san francisco toronto london



Example of a cybernetic anthropomorphic machine (CAM), a symbiote of man and machine. This electro-hydraulic servomanipulator M. 20 degrees of freedom, 10 in each slave arm. The slave follows the movements of the master smoothly and continuously while a fraction of the forces exerted by the slave are fed back to the master so that he experiences the sensations of doing the task himself. (COURTESY OF GENERAL ELECTRIC COMPANY.)



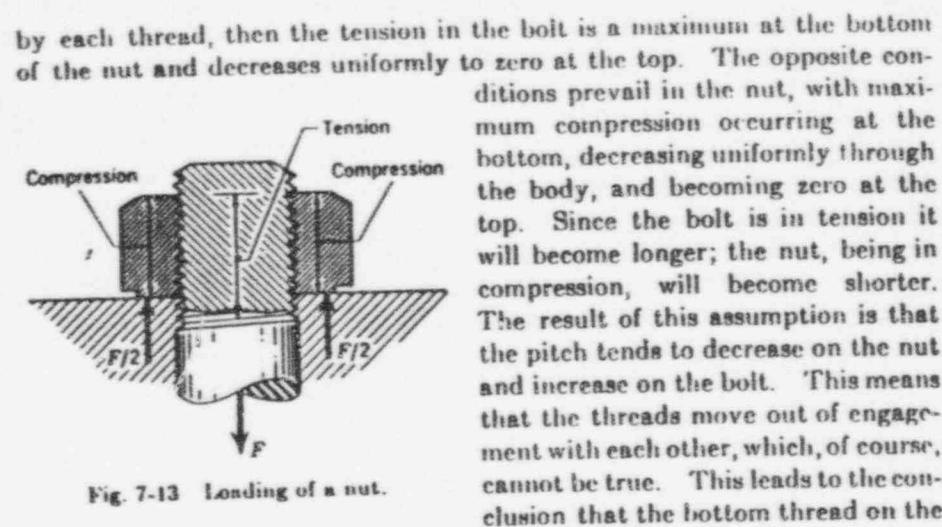


Fig. 7-13 Loading of a nut.

nut takes the entire load, with the remaining threads in contact but not transferring any load.

This tendency may be partially corrected by proportioning the nut so as to cause more deformation to exist at the bottom. Figure 7-14 shows two nut designs in which material has been removed from the lower portion of the nut in order to equalize the stress distribution.

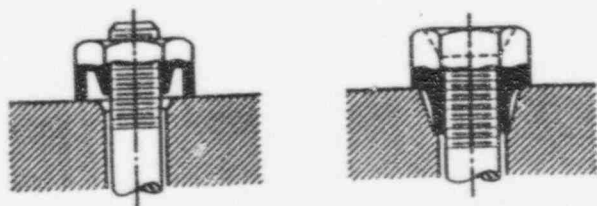


Fig. 7-14 Typical methods of distributing the thread load.

In practice, conditions are not quite as severe as pictured, since yielding of the threads in the nut will permit the other threads to transfer some of the load. However, since such a tendency is present, it must be guarded against and knowledge of it used in selecting the nut.

Another factor which acts to reduce the tendency of the bottom thread to take the entire load is that the wedging action of the threads tends to spread or dilate the nut.

These conditions point to the fact that, when preloading is desired, careful attention should be given to the nut material. By selecting a soft nut, plastic yielding will enable the nut threads to divide the load more evenly.

the nut. The strength is the load divided by the mean thread area. Common nuts have a stripping strength of approximately 90,000 psi.

It is interesting to know that three full threads are all that are required to develop the full bolt strength.

Another factor which must be considered in the design of bolted joints is the maintenance of the initial preload. This load may be relaxed by yielding of the clamped material, by extrusion of paint or plating from the contact surfaces, or by a compression of rough places. Extra contact area may be provided by hardened washers. This is especially necessary if the bolted parts are relatively soft and the bolt head or nut does not provide sufficient bearing area.

#### 7-4. BOLTED TENSION JOINTS WITH GASKETS

Seals can frequently be employed in joints and a metal-to-metal contact still be maintained. This should be done whenever possible, since it produces a much stronger joint.

Figure 7-15 shows a bolted joint in tension, employing a gasket. Equation (7-10), which gives the resultant bolt load when the initial preload and the external tensile load are known, can be arranged to give

$$F = CF_t + F_i \quad (7-14)$$

$$\text{where } C = \frac{k_b}{k_b + k_m} \quad (7-15)$$

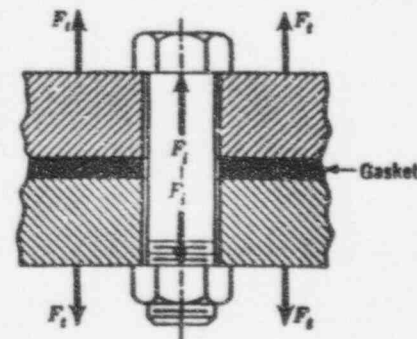


Fig. 7-15 Bolted joint in tension.

The quantity  $C$ , which may be called the stiffness coefficient, must have values between 0 and 1. Doughtie and Carter<sup>1</sup> state that, when no gasket is employed,  $C$  may be taken equal to 0 and that, in normal applications using the softest and most flexible gasket materials, tests show that  $C$  seldom exceeds 0.50. When the area, thickness, and modulus of elasticity of the gasket are known, the coefficient may be calculated from Eqs. (7-9) and (7-15). This makes it possible either to calculate  $C$  or, at most, to make a close guess as to its value. If the stress-deflection diagram for the gasket material is not linear, and many such diagrams are not, a close approximation can be made by calculating an  $E$  for the operating range.

It has been shown that, when the bolt is properly preloaded, fatigue is not a serious problem in tension-loaded joints employing stiff materials. Since bolt materials are relatively ductile, this means that stress concentra-