

ATTACHMENT I

INSERVICE INSPECTION REPORT

of the

North Anna Power Station

Unit 2

P.O. Box 402

Mineral, Virginia 23117

for

Virginia Electric and Power Company

5000 Dominion Boulevard

Glen Allen, Virginia 23060

Commercial Service Date: December 14, 1980

Operating Capacity: 944 MWe (net)

Refueling Outages: 3rd Period, 1st Interval

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

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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 Unit 2 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 12-14-80 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.
REACTOR VESSEL	RDM ROTTERDAM	30662	VA 61445	N/A
PRESSURIZER	WESTINGHOUSE ELECTRIC CORP.	1291	VA 61434	68-104
STEAM GENERATOR "A"	WESTINGHOUSE ELECTRIC CORP.	1281	VA 61431	68-95
STEAM GENERATOR "C"	WESTINGHOUSE ELECTRIC CORP.	1283	VA 61433	68-97
CLASS 1 PIPING NON-SERIALIZED	STONE & WEBSTER ENG. CORP.	N/A	N/A	N/A
CLASS 1 PIPING	S.W. FABRICATING	285	N/A	N/A
CLASS 1 PIPING	S.W. FABRICATING	291	N/A	N/A
CLASS 1 PIPING	S.W. FABRICATING	294	N/A	N/A
REACTOR COOLANT PUMP "A"	ESCO CORP.	819	N/A	N/A
REACTOR COOLANT PUMP "C"	ESCO CORP.	710	N/A	N/A
REGENERATIVE HEAT EXCHANGER	JOSEPH OAT & COMPANY	1831-12-3	VA 61435	452
ACCUMULATOR TANK "A"	DELTA SOUTHERN CO.	41370-71-1	VA 61420	2822
"A" SEAL WATER INJECTION FILTER	COMMERCIAL FILTERS DIVISION	19046-1966	N/A	1464
"B" SEAL WATER INJECTION FILTER	COMMERCIAL FILTERS DIVISION	19046-1967	N/A	1465
CLASS 2 PIPING NON-SERIALIZED	STONE & WEBSTER ENG. CORP.	N/A	N/A	N/A
CLASS 1 COMPONENT SUPPORTS	VIRGINIA ELECTRIC & POWER CO.	N/A	N/A	N/A

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FORM NIS-1 (Back)

8. Examination Dates 5-7-89 to 10-30-90 9. Inspection Interval from 12-14-80 to 12-14-90
10. Applicable Editions of Section XI 1974 Addenda S75
11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. Pages 1 - 53
12. Abstract of Conditions Noted. Pages 9 - 53
13. Abstract of Corrective Measures Recommended and Taken. Pages 9 - 53

We certify that the statements made in this report are correct and the examinations and 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 JANUARY 24 19 91 Signed VIRGINIA POWERS By EW Thomas
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 & T Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 5-7-89 to 1-3-91, 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 inspection plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and 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.

William E. Miller Commissions VA-558
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 Jan 19 91

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Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
CLASS 2 COMPONENT SUPPORTS	VIRGINIA ELECTRIC & POWER	N/A	N/A	N/A
CLASS 3 COMPONENT SUPPORTS	VIRGINIA ELECTRIC & POWER	N/A	N/A	N/A
LOW HEAD SI PUMF "A"	INGERSOL-RAND	VGB-STAPLH-02	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-005	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-006	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-138	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-139	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-152	N/A	N/A
REPAIR AND REPLACEMENT	FLOUR DANIEL	90-159	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-192	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-195	N/A	N/A
REPAIR AND REPLACEMENT	WESTINGHOUSE ELECTRIC CORP.	90-197	N/A	N/A
REPAIR AND REPLACEMENT	FLOUR DANIEL	90-200	N/A	N/A
REPAIR AND REPLACEMENT	FLOUR DANIEL	90-201	N/A	N/A
REPAIR AND REPLACEMENT	FLOUR DANIEL	90-202	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-203	N/A	N/A

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Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER	90-209	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER	90-210	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER	90-215	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-216	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-222	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-225	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-B001	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-B002	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-B003	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-B004	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-B005	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-B006	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-B019	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-B020	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-B021	N/A	N/A
REPAIR AND REPLACEMENT	WESTINGHOUSE ELECTRIC CORP.	90-B022	N/A	N/A

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REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8024	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8026	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8029	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8031	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8034	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8035	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8036	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8037	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8038	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8040	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8041	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8042	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8043	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8044	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8047	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8049	N/A	N/A

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REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8050	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8051	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8052	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8053	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8054	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8055	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8056	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8057	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8058	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8059	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8060	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8061	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8062	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8063	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	90-8067	N/A	N/A
REPAIR AND REPLACEMENT	VIRGINIA ELECTRIC & POWER CO.	91-8035	N/A	N/A

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Interval 1 Examination Summary

Introduction

This report includes the interval 1 inservice examinations of Class 1, Class 2, and Class 3 components, piping and component supports that were conducted at North Anna Power Station Unit 2 from May 7, 1989 to October 30, 1990. The examinations during the first interval were performed to meet the requirements of ASME Section XI, 1974 Edition, Summer of 1975 Addenda. The examinations reported complete the examination requirements for the first inspection interval, with the exception of one component support.

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, G.W. Hiers, W. E. Huber, C. A. Ireland, D.R. Laakso, and C.E. Metcalfe), North Anna Station Quality Assurance Department, and the North Anna technical staff.

Limitations

Some of the arrangements and details of the piping system and components were designed and fabricated before the access and examination requirements of Section XI of the 1974 Code could be applied; consequently some examinations are limited or not practical due to geometric configuration or accessibility.

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 angles or methods were considered in an attempt to achieve the maximum examination volume. Generally partial examinations (PARs) are noted at fitting to fitting assemblies and where integrally welded

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supports, lugs or hangers, etc., preclude access to some part of the examination area.

Some examinations were performed after the end of the refueling outage but prior to the end the period. These post outage exams are noted by "PO" in the abstract examinations. These post-outage examinations are included in this report rather than the next report to state the extent of completion of the first interval examinations. The first interval post-outage examinations contained in this report will not be reported in the next NIS-1 report.

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Results

Examinations of components and component supports resulted in a total of 31 components being reported on the basis of procedure reporting criteria.

A summary of the indications and their dispositions follows:

- A) Four indications were reported on the "C" Loop cold leg branch connection (VGB-1-4300 weld 25BC 1 - Class 1). The indications were reported as having a raised surface and were delineated by penetrant bleedout around their perimeter. The indications were removed by Repair Program 90-222. The areas were reexamined and found to be acceptable.
- B) Deformed threads were reported on one stud of "B" pressurizer safety valve flange, 2-RC-SV-2551B, (VGB-1-4700 item 17 shown on ISO VGB-1-4500 - Class 1). The stud was replaced by Bolting Program 90-B043.
- C) Deformed threads were reported on one stud of "C" pressurizer safety valve flange, 2-RC-SV-2551C, (VGB-1-4700 item 18 shown on ISO VGB-1-4500 - Class 1). The stud was replaced by Bolting Program 90-B044.
- D) A 1 inch linear indication was found on seal house bolt number 2 on reactor coolant pump 2-RC-P-1C (VGB-1-5100A - Class 1). The bolt was replaced with serial number 9486 by Bolting Program 90-B022.
- E) General corrosion and evidence of coolant leakage was reported on the body to bonnet studs of the "C" hot leg loop stop valve, 2-RC-MOV-2594 (VGB-1-6100 item 5 shown on ISO VGB-1-4300 - Class 1). The studs were cleaned and reexamined and determined to be acceptable.
- F) General corrosion and evidence of coolant leakage was reported on the body to bonnet studs of the "C" cold leg loop stop valve, 2-RC-MOV-2595 (VGB-1-6100 item 6 shown on ISO VGB-1-4300 Class 1). The studs were cleaned and reexamined and determined to be acceptable.

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- G) Evidence of coolant leakage was reported on the body to bonnet studs of the "B" loop RTD return isolation valve, 2-RC-55 (VGB-6300 item 32 shown on ISO VGB-1-4207 - Class 1). The studs were cleaned and reexamined and determined to be acceptable.
- H) Evidence of coolant leakage was reported on the body to bonnet studs of the "B" loop RTD return isolation valve, 2-RC-63 (VGB-6300 item 33 shown on ISO VGB-1-4207 - Class 1). The studs were cleaned and reexamined and determined to be acceptable.
- I) Evidence of coolant leakage and rust was reported on the body to bonnet studs of the "C" loop drain valve, 2-RC-HCV-2557C (VGB-6300 item 50 shown on ISO VGB-1-4311 - Class 1) The studs were cleaned and reexamined and found to be acceptable.
- J) A 2 1/2" x 1 1/2" dent was found on the discharge of the "A" low head pump, 2-S1-P-1A, near FW-4 shown on ISO VGB-2-2525 (Class 2). The area was examined by UT and PT. The condition was evaluated by Virginia Electric and Power Company Engineering and found to be acceptable.
- K) Grout was missing under the base plate of WCMU-R-7 shown on 12050-WMKS-102E-2 (Class 3). The condition was evaluated by Virginia Electric and Power Company Engineering and additional examination criteria was provided. The support was reexamined and found to be acceptable to the additional examination criteria. In addition, the field location did not agree with the drawing 12050-WMKS-102E-2. The location did agree with piping drawing 12050-FP-2J-12. Drawing update requests have been submitted on 12050-WMKS-102E-2 to reflect the correct location of WCMU-R-7. Drawing 12050-WMKS-102E-2 will be revised prior to the end of the next refueling outage.
- L) A bolt was found to be loose on the pipe clamp for RC-SH-3 on 2"-RC-458-1502-Q1 12050-WMKS-103AY (Class 1). The clamp had shifted out of position. The spring setting was also found to be out of tolerance. The condition was evaluated by Virginia Electric and Power Company Engineering and found to be acceptable for past operation. The clamp was realigned, pipe clamp bolt tightened, and the spring setting was adjusted. The support was reexamined and found to be acceptable.

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- M) A crescent wrench was used as a spring stop and the spring setting was found to be out of tolerance for RC-SH-3 on line 3"-RC-619-1502-Q1 on 12050-WMKS-103AY (Class 1). The crescent wrench was being used as a temporary stop while an adjacent hydraulic snubber was being removed. The condition was evaluated by Virginia Electric and Power Company Engineering and found to be acceptable. The crescent wrench was removed, the spring was return to its functional status. The support was reexamined and found to be acceptable.
- N) A spacer bolt and nut were missing on RC-SH-1 on 12050-WMKS-103BA (Class 1). The missing spacer bolt could not be located and the cause could not be determined. The spacer bolt and nuts were replaced under Bolting Program 91-B036. The support was reexamined and found to be acceptable.
- O) A spring support, RC-SH-2 on 12050-WMKS-103CB (Class 1), was reported as being a snubber. A review by Virginia Electric and Power Engineering found documentation supporting both the presence and absence of a spring hanger at the location shown on 12050-WMKS-103CB. The piping was evaluated with and without the spring hanger and found to be acceptable in both cases. The drawing will be walked down during the next outage and revised as necessary.
- P) A loose pipe clamp bolt, a loose jam nut, and heavy corrosion on both spherical bearings was found on RC-R-4 on 12050-WMKS-103DA (Class 1). The loose pipe clamp bolt and jam nut were tightened. The spherical bearing was cleaned. The support was reexamined and found to be acceptable.
- Q) A loose pipe clamp bolt was found on RC-R-2 on 12050-WMKS-103DC-1 (Class 1). The pipe clamp bolt was tightened. The support was reexamined and found to be acceptable.
- R) A loose pipe clamp bolt and a loose jam nut were found on SI-R-31 on 12050-WMKS-104B-1 (Class 2). Paint on the spherical bearings was noted but not as a rejectable condition. The pipe clamp and jam nut were tightened. The support was reexamined and found to be acceptable.

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- S) An anchor bolt and nut were found to be missing on support WS-A-3 on 12050-WMKS-105A-1 (Class 3). The condition was evaluated by Virginia Electric and Power Company Engineering and determined to be acceptable. The applicable drawings have been revised to reflect the field condition.
- T) Two gaps were found to exceed the specified tolerance on support WS-A-12 on 12050-WMKS-105A-1 (Class 3). The condition was evaluated by Virginia Electric and Power Company Engineering and determined to be acceptable.
- U) A gap was found to exceed the specified the tolerance on support WS-A-23 on 12050-WMKS-105A-1 (Class 3). The condition was evaluated by Virginia Electric and Power Company Engineering and determined to be acceptable.
- V) An anchor bolt was missing from the base plate of WS-R-17 on 12050-WMKS-105A-2 (Class 3). The condition was previously evaluated by Virginia Electric and Power Company Engineering and determined to be acceptable. All applicable drawings reflect the field condition.

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- W) The following supports were found to have their base plates submerged in water (Class 3). Heavy corrosion and degradation were noted on the base plates, nuts, bolts, and connecting welds. In addition WCMU-R-32 had a 3/8 inch gap between the base plate and grout. The gap, corrosion, and degradation were evaluated by Virginia Electric and Power Engineering and determined to be acceptable. The supports will be cleaned, painted, and reexamined prior to the end of the next refueling outage.

Drawing	Mark Number
12050-WMKS-107AAG	WCMU-R-10
12050-WMKS-107AAG	WCMU-R-12
12050-WMKS-107AAG	WCMU-R-13
12050-WMKS-107AAG	WCMU-R-15
12050-WMKS-107AAG	WCMU-R-16
12050-WMKS-107AAG	WCMU-R-18A
12050-WMKS-107AAG	WCMU-R-30
12050-WMKS-107AAG	WCMU-R-31
12050-WMKS-107AAG	WCMU-R-32
12050-WMKS-107AAG	WCMU-R-33
12050-WMKS-107AAG	WCMU-R-34

- X) Heavy rust was noted on the following supports (Class 3). The condition of rust was determined to be not rejectable by the examiner.

Drawing	Mark Number
12050-WMKS-107AAH	QS-R-43
12050-WMKS-107AAH	QS-R-44
12050-WMKS-107AAH	QS-R-45
12050-WMKS-107AAH	QS-R-46
12050-WMKS-107AAH	QS-R-47
12050-WMKS-107AAH	QS-R-48
12050-WMKS-107AAH	QS-R-49
12050-WMKS-107AAH	QS-R-50
12050-WMKS-107AAH	QS-R-51
12050-WMKS-107AAH	QS-SH-52

- Y) Paint was found on the spherical bearing of SI-R-223 on 12050-WMKS-107E (Class 2). The condition was evaluated by Virginia Electric and Power Company Engineering and found to be acceptable.

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- Z) A loose pipe clamp bolt was noted on RC-R-31 on 12050-WMKS-110D (Class 1). An attempt to tighten the bolt was unsuccessful. The condition was evaluated by Virginia Electric and Power Company Engineering and found to be acceptable. The bolt will be replaced prior to the end of the next refueling outage.
- AA) A loose pipe clamp bolt and four unengaged threads were found on 2-CH-SH-5 on 12050-WMKS-111AB (Class 1). The pipe clamp bolt was replaced with a longer bolt under Bolting Program 91-B035 and all fasteners were tightened. The support was reexamined and found to be acceptable.
- AB) The spring setting was found to be out of tolerance for SI-SH-17A and SI-SH-17B on 12050-WMKS-113C (Class 1). The settings were adjusted and the supports were reexamined and found to be acceptable. The paint will be removed prior to the end of the next refueling outage.
- AC) Paint on the spherical bearing was noted on CC-R-417 on 11715-WMKS-118N-3 (Class 3). The condition was evaluated by Virginia Electric and Power Company Engineering and found to be acceptable. The paint will be removed prior to the end of the next refueling outage.
- AD) Paint on the spherical bearings, restricted movement and moderate thread engagement on the bottom eye rod to sway strut connection was found on CC-R-418 on 11715-WMKS-118N-3 (Class 3). The condition was evaluated by Virginia Electric and Power Company Engineering and found to be acceptable. The paint will be removed, the thread engagement adjusted (WR 645591), and reexamined prior to the end of the next refueling outage.

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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, 1980 Edition thru the Winter 1981 Addenda and the 1983 Edition thru the Summer 1983 Addenda.

The following paragraphs and the attached NIS-2 Forms (Attachment III, pages 1 thru 72) represent those repairs and replacements performed on Class 1 or Class 2 systems:

- A) 90-005 - Replaced a 10" expansion joint, RS-MEJ-1A, on the discharge of the "A" outside recirculation spray pump, with serial number U2-4928 (Class 2). The expansion joint was damaged by improper operation of the system. Studs and nuts were replaced by bolting program 90-B001.
- B) 90-006 - Replaced a 10" expansion joint, RS-MEJ-1B, on the discharge of the "B" outside recirculation spray pump, with serial number U2-4927 (Class 2). The expansion joint was damaged by improper operation of the system. Studs and nuts were replaced by bolting program 90-B002.
- C) 90-138 - Ground weld 22 as shown on ISO VGB-2-2533 for UT exam (Class 2). A PT and a UT exam were performed.
- D) 90-139 - Ground weld 17 as shown on ISO VGB-2-2534 for a UT exam (Class 2). A PT and a UT exam were performed.
- E) 90-152 - Replaced a bonnet on a 3" chemical volume and control diaphragm valve, 2-CH-124, (Class 2). The valve would not turn using the reach rod. The material was upgraded from class 3 to class 2 by performing RT and LP exams
- F) 90-159 - Replaced a clevis pin, spanner nut, and jam nut on large bore snubber, 2-RC-HSS-3C (Class 1). The items were damaged during removal. The replacement of the snubber is covered under Repair Program 90-201.
- G) 90-192 - Repaired steam cuts on the gasket seating surface on a 6" pressure control valve, 2-MS-PCV-201A (Class 2). All work and testing was completed during the outage. Final work order signoff was completed after the outage.

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- H) 90-195 - Replaced a 4" chemical volume and control gate valve, 2-CH-408 (Class 2). The valve had a body to bonnet leak and did not operate properly.
- I) 90-197 - Installed two 7/8" welded plugs in the "A" steam generator, 1-RC-E-1A (Class 1). Plugs were located in row 30, column 59 and row 38, column 73. Plugs were installed to remove tubes which had linear indications from service.
- J) 90-200 - Replaced large bore snubber, serial number 006, located in location 2-RC-HSS-3A with serial number 015 (Class 1). The snubber was observed to have no positive pressure at the time of the as-found inspection. The program was written after the work was performed (DR-90-1426). The replaced snubber was tested and determined by Virginia Electric and Power Company Engineering to be operable.
- K) 90-201 - Replaced large bore snubber, serial number 005, located in location 2-RC-HSS-3C with serial number 014 (Class 1). The snubber was observed to have no positive pressure at the time of the as-found inspection. The program was written after the work was performed (DR-90-1426). The replaced snubber was tested and determined by Virginia Electric and Power Company Engineering to be operable.. The clevis pin, spanner nut, and jam nut were replaced under Repair Program 90-159.
- L) 90-202 - Replaced large bore snubber, serial number 004, located in location 2-RC-HSS-11B with serial number 005 (Class 1). The snubber was observed to have no positive pressure at the time of the as-found inspection. The program was written after the work was performed (DR-90-1426). The replaced snubber was tested and determined by Virginia Electric and Power Company Engineering to be operable.
- M) 90-203 - Removed surface irregularities by mechanical means from weld 21 shown on ISO VGB-2-2533 to prepare the surface for a UT exam (Class 2). The area was examined by UT and LP and found to be acceptable.

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- N) 90-209 - Removed 13 linear indications from 2-FW-PP-5D-15 (weld 10 shown on ISO VGB-2-2101 Class 2). The indications were discovered during a UT thickness exam. The area was reexamined by magnetic particle and found to be acceptable.
- O) 90-210 - Removed a linear indication from weld 5 shown on ISO VGB-2-1210 on the "A" safety injection accumulator tank, 2-SI-TK-1A (Class 2 national board number 2822). The indication was discovered during an inservice inspection. The area was reexamined by liquid penetrant and found to be acceptable.
- P) 90-215 - Installed a site fabricated cap on a 2" reactor coolant globe valve, 2-RC-19, (Class 1). The cap was installed to contain diaphragm leaks. The VT-2 exam was performed during startup after the official outage end date.
- Q) 90-216 - Installed a site fabricated cap on a 2" reactor coolant globe valve, 2-RC-52, (Class 1). The cap was installed to contain diaphragm leaks. The VT-2 exam was performed during startup after the official outage end date.
- R) 90-222 - Removed weld splatter from weld 25BC on 6"-RC-420-1502-Q1 shown on ISO VGB-1-4300 (Class 1 serial number 0294). The area was reexamined and found to be acceptable.
- S) 90-225 - Repaired steam cuts on bonnet rabbit on a 3" main steam globe valve, 2-MS-95 (Class 2). The valve was previously furmanited. The bolting was replaced under Bolting Program 90-B067. The VT-2 exam was performed during startup after the official outage end date.
- T) 90-B001 - Replaced 24 studs and 48 nuts on 10" expansion joint, 2-RS-MEJ-1A, on the discharge of the "A" outside recirculation spray pump (Class 2). Expansion joint was replaced under repair and replacement program 90-005.
- U) 90-B002 - Replaced 24 studs and 48 nuts on 10" expansion joint, 2-RS-MEJ-1B, on the discharge of the "B" outside recirculation spray pump (Class 2). Expansion joint was replaced under repair and replacement program 90-006.

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- V) 90-B003 - Replaced 4 studs and 8 nuts on a 3 safety injection flange. The studs and nuts were replaced due to boric acid from a flange leak. (Class 2).
- W) 90-B004 - Replaced 4 studs and 8 nuts on the 1" inlet flange of the excess letdown heat exchanger, 2-CH-E-4 (Class 2). The flange leak was found during a containment walkdown. The studs were replaced one at a time therefore no VT-2 exam was required.
- X) 90-B005 - Replaced 8 studs and 16 nuts on the discharge flow element flange, 2-CH-FE-2122, of the "B" low head safety injection pump, 2-SI-P-1B, (Class 2).
- Y) 90-B006 - Replaced 8 studs and 16 nuts on the 6" "C" charging pump suction flange, 2-CH-P-1C (Class 2). The studs and nuts were replaced during the gasket replacement as a good maintenance practice.
- Z) 90-B019 - Replaced 16 studs and 32 nuts on 12" safety injection valve 2-SI-1 (Class 2). The valve was disassembled for ASME XI valve internals inspection. The studs were reported as having corrosion and rust.
- AA) 90-B020 - Replaced 20 studs and 40 nuts on 12" safety injection valve, 2-SI-MOV-2860A (Class 2). The studs and nuts were replaced as part of routine maintenance. The studs were replaced one at a time therefore no VT-2 exam was required.
- AB) 90-B021 - Replaced 12 studs and 12 nuts on 3" safety injection valve, 2-SI-MOV-2836 (Class 2). The studs and nuts were noted as having general corrosion.
- AC) 90-B022 - Replaced 1 bolt on reactor coolant pump, 1-RC-P-1C, seal injection flange (VGB-1-5100A, Class 1). The bolt was rejected by NDE during inservice inspection. During the examination of the replacement bolt an ANII hold was bypassed (DR-N1-91-61). The nonconformance will be resolved and any necessary actions will be implemented prior to the end of the next refueling outage. The VT-2 exam was performed during startup after the official outage end date.

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- AD) 90-B024 - Replaced 10 studs and 20 nuts on quench spray valve, 2-QS-MOV-202A (Class 2). The studs were noted as having general corrosion.
- AE) 90-B026 - Replaced 4 studs and 8 nuts on 4" quench spray diaphragm valve, 2-QS-28 (Class 2). The studs and nuts were replaced during the replacement of the valve diaphragm.
- AF) 90-B029 - Replaced 12 studs and 12 nuts on 3" chemical volume and control check valve, 2-CH-358 (Class 1). Bolting was replaced as part of the gasket replacement.
- AG) 90-B031 - Replaced 20 studs and 40 nuts on 12" safety injection valve, 2-SI-MOV-2860B (Class 2). The studs and nuts were reported as having corrosion.
- AH) 90-B034 - Replaced 10 studs and 20 nuts on 8" chemical volume and control valve, 2-CH-MOV-2115D (Class 2). The studs and nuts were corroded due to a body to bonnet leak.
- AI) 90-B035 - Replaced 8 studs and 16 nuts on chemical volume and control relief valve, 2-CH-RV-2209 (Class 2). The studs and nuts were replaced as a good maintenance practice. The VT-2 exam was performed during startup after the official outage end date.
- AJ) 90-B036 - Replaced 8 studs and 16 nuts on chemical volume and control valve, 2-CH-RV-2382B (Class 2). The valve was removed for relief valve testing.
- AK) 90-B037 - Replaced 12 studs and 12 nuts on safety injection valve, 2-SI-MOV-2869A (Class 2). The studs and nuts were replaced as a good maintenance practice.
- AL) 90-B038 - Replaced 4 studs and 4 nuts on 1 1/2" quench spray valve, 2-QS-29 (Class 2). The studs and nuts were noted to have corrosion.
- AM) 90-B040 - Replaced 8 studs and 16 nuts on 3" chemical volume and control valve, 2-CH-MOV-2381 (Class 2). The studs and nuts were replaced as a good maintenance practice and because of an unacceptable visual examination on several studs. The VT-2 exam was performed during startup after the official outage end date.

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- AN) 90-B041 - Replaced 4 studs and 4 nuts on 1" excess letdown heat exchanger inlet flange, 2-CH-E-4 (Class 2). The studs and nuts were corroded due to boric acid. The VT-2 exam was performed during startup after the official outage end date.
- AO) 90-B042 - Replaced 12 studs on 6" pressurizer safety valve flange, 2-RC-SV-2551A, (VGB-1-4700 item 16 Class 1). The studs were replaced due to incomplete material certification. The VT-2 exam was performed during startup after the official outage end date..
- AP) 90-B043 - Replaced 1 stud on 6" pressurizer safety valve flange, 2-RC-SV-2551B, (VGB-1-4700 item 17 Class 1). The stud was replaced due to deformed threads found during inservice inspection. The VT-2 exam was performed during startup after the official outage end date.
- AQ) 90-B044 - Replaced 1 stud on 6" pressurizer safety valve flange, 2-RC-SV-2551C, (VGB-1-4700 item 18 Class 1). The stud was found to be deformed during inservice inspection. The VT-2 exam was performed during startup after the official outage end date.
- AR) 90-B047 - Replaced 12 studs and 12 nuts on 3" main steam valve, 2-CH-250 (Class 2). The studs and nuts were replaced due to degradation caused by a body to bonnet leak found during regular scheduled preventative maintenance. The VT-2 exam was performed after the outage.
- AS) 90-B049 - Replaced 12 studs and 24 washers on 6" main steam safety valve, 2-MS-SV-201A (VGB-2-4100 item 1, Class 2). The studs and washers were replaced due to galled threads found during scheduled safety valve testing. The VT-2 exam was performed after the outage.
- AT) 90-B050 - Replaced 12 studs and 24 washers on 6" main steam safety valve, 2-MS-SV-201B (VGB-2-4100 item 9, Class 2). The studs and washers were replaced due to galled threads found during scheduled safety valve testing. The VT-2 exam was performed after the outage.
- AU) 90-B051 - Replaced 12 studs, 12 nuts, and 24 washers on 6" main steam safety valve, 2-MS-SV-201C (VGB-2-4100 item 17, Class 2). The studs, nuts, and washers were replaced due to galled threads found during scheduled safety valve testing. The VT-2 exam was performed after the outage.

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- AV) 90-B052 - Replaced 12 studs, 24 nuts, and 24 washers on 6" main steam safety valve, 2-MS-SV-202A (VGB-2-4100 item 4, Class 2). The studs, nuts, and washers were replaced due to galled threads found during scheduled safety valve testing. The VT-2 exam was performed after the outage.
- AW) 90-B053 - Replaced 12 studs, 24 nuts, and 24 washers on 6" main steam safety valve, 2-MS-SV-202B (VGB-2-4100 item 12, Class 2). The studs, nuts, and washers were replaced due to galled threads found during scheduled safety valve testing. The VT-2 exam was performed after the outage.
- AX) 90-B054 - Replaced 12 studs, 24 nuts, and 24 washers on 6" main steam safety valve, 2-MS-SV-202C (VGB-2-4100 item 20, Class 2). The studs, nuts, and washers were replaced due to galled threads found during scheduled safety valve testing. The VT-2 exam was performed after the outage.
- AY) 90-B055 - Replaced 12 studs, 24 nuts, and 24 washers on 6" main steam safety valve, 2-MS-SV-203A (VGB-2-4100 item 3, Class 2). The studs, nuts, and washers were replaced due to galled threads found during scheduled safety valve testing. The VT-2 exam was performed after the outage.
- AZ) 90-B056 - Replaced 12 studs, 24 nuts, and 24 washers on 6" main steam safety valve, 2-MS-SV-203B (VGB-2-4100 item 11, Class 2). The studs, nuts, and washers were replaced due to galled threads found during scheduled preventative maintenance. The VT-2 exam was performed after the outage.
- BA) 90-B057 - Replaced 12 studs, 24 nuts, and 24 washers on 6" main steam safety valve, 2-MS-SV-203C (VGB-2-4100 item 19, Class 2). The studs, nuts, and washers were replaced due to galled threads found during scheduled safety valve testing. The VT-2 exam was performed after the outage.
- BB) 90-B058 - Replaced 12 studs, 24 nuts, and 24 washers on 6" main steam safety valve, 2-MS-SV-204A (VGB-2-4100 item 2, Class 2). The studs, nuts, and washers were replaced due to galled threads found during scheduled safety valve testing. The VT-2 exam was performed after the outage.

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- BC) 90-B059 - Replaced 12 studs, 24 nuts, and 24 washers on 6" main steam safety valve, 2-MS-SV-204B (VGB-2-4100 item 10, Class 2). The studs, nuts, and washers were replaced due to galled threads found during scheduled safety valve testing. The VT-2 exam was performed after the outage.
- BD) 90-B060 - Replaced 12 studs, 24 nuts, and 24 washers on 6" main steam safety valve, 2-MS-SV-204C (VGB-2-4100 item 18, Class 2). The studs, nuts, and washers were replaced due to galled threads found during scheduled safety valve testing. The VT-2 exam was performed after the outage.
- BE) 90-B061 - Replaced 12 studs, 24 nuts, and 24 washers on 6" main steam safety valve, 2-MS-SV-205A (VGB-2-4100 item 5, Class 2). The studs, nuts, and washers were replaced due to galled threads found during scheduled safety valve testing. The VT-2 exam was performed after the outage.
- BF) 90-B062 - Replaced 12 studs, 24 nuts, and 24 washers on 6" main steam safety valve, 2-MS-SV-205B (VGB-2-4100 item 13, Class 2). The studs, nuts, and washers were replaced due to galled threads found during scheduled safety valve testing. The VT-2 exam was performed after the outage.
- BG) 90-B063 - Replaced 12 studs, 24 nuts, and 24 washers on 6" main steam safety valve, 2-MS-SV-205C (VGB-2-4100 item 21, Class 2). The studs, nuts, and washers were replaced due to damaged found during scheduled safety valve testing. The VT-2 exam was performed after the outage.
- BK) 90-B067 - Replaced 14 studs and 28 nuts on 3" main steam valve, 2-MS-95 (Class 2). The studs and nuts were replaced as a good maintenance practice. Steam cuts were repaired under program 90-225. The VT-2 exam was performed after the outage.
- BL) 91-B035 - Replaced 1 stud and 2 nuts on support CH-SH-5 on 12050-WMKS-111AB. The bolting program was completed after the work was done (DR-91-0090). The deficiency will be resolved and the solution implemented prior to the end of the next refueling outage.

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BM) 91-B036 - Replaced 1 stud and 2 nuts on support RC-SH-1 on 12050-WMKS-103BA. The bolting program was completed after the work was done (DR-91-0090). The deficiency will be resolved and the solution implemented prior to the end of the next refueling outage.

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Snubber Replacements

The following lists the number of snubbers replaced in each system and the reason they were replaced. A total of 72 snubbers were replaced as part of the Tech. Spec. functional test program. A total of 4 snubbers were replaced and tested since they had failed the functional test during the last refueling outage. A total of 120 snubbers were replaced due to seal life expiring prior to the next scheduled refueling outage. A total of 10 snubbers were replaced per engineering request to resolve various visual anomalies. The associated NIS-2 Forms are included as Attachment III.

System	Functional Test Group	Previous Failure	Seal Life	Engineering Request
Aux. Feedwater	1	0	0	0
Blowdown	2	1	4	1
Chemical & Volume Control	5	0	10	1
Component Cooling Feedwater	2	0	3	0
Main Steam	6	0	10	0
Quench Spray	14	0	38	1
Reactor Coolant	2	0	1	1
Residual Heat Removal	26	3	30	4
Recirc. Spray	5	0	10	0
Safety Injection	1	0	2	0
Service Water	8	0	11	2
	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>
	72	4	120	10

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Design Changes

Design changes and engineering work requests completed during this inservice inspection period were performed in accordance with Section XI of the ASME Boiler & Pressure Vessel Code, 1980 Edition thru Winter 1981 Addenda, and 1983 Edition thru Summer 1983 Addenda.

The following paragraphs and the attached NIS-2 Forms (Attachment III, pages 133 thru 135) represent those design changes or engineering work requests performed on Class 1 or 2 systems.

- A) DCP 89-47-2 rotated the root isolation valves (2-CH-84 and 2-CH-86) to the volume control tank (VCT) level transmitters, (LT-2112 and T-2115) 90 degrees (Class 2). Installed 2 inch couplings on lines 2"-CH-897-153A-Q3 and 2"-CH-900-153A-Q3 to rotate valves. Replaced fasteners and associated flanges. The rotation will allow condensate from the sensing lines to drain back to the VCT vapor space.
- B) DCP 89-50 added an independent ultrasonic level indication on the "B" reactor coolant hot leg (Class 1). The hot leg was machined to provide a flat spot for installing the transducer. The modification will provide an additional independent level indication to protect against loss of Residual Heat Removal due to air entrapment during RCS drain down conditions. The liquid penetrant exam report did not state the batch number of the penetrant used (DR 90-1605). Although traceability of the penetrant material has been lost, procedures in place at North Anna assured that the material was certified.

Procedural Nonconformance

- A) A liquid penetrant exam was performed on a welded support on the pressurizer spray line (VGB-1-4501 weld WS-2 - Class 1) above the temperature range of the procedure. The procedure was later qualified for the higher temperature range and the exam was determined to be acceptable.

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Resolution of previous Interval 1 NIS-1 commitments

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

1. Letter Serial No. 89-360 page 9 of 39, Repairs and Replacements, item Q (RR89-060):

A commitment was made to perform an inservice leak test on 2-FW-134 during normal operation (DR 89-1205). This valve was within the test boundary of hydrostatic test 2-MS-3. The test was performed during the 1990 refueling outage. The VT-z examination of the valve was acceptable.

2. Letter Serial No. 89-360, page 10 of 39, Repairs and Replacements, item Y (RR89-111):

A commitment was made to investigate material supplied by Pressure Vessel Nuclear to determine if it met the requirements of ASME Section III, Class 2 (DR 89-1492). Material was used in the fabrication of 2-CC-276. The investigation concluded that the material met the code requirements.

3. Letter Serial No. 89-360 page 11 of 39, Repairs and Replacements, item Z (RR89-115), AA (RR89-116), AB (RR89-117), AB (RR89-118), AC (RR89-119) AD (RR89-120), and AD (RR89-121):

A commitment was made to perform a hydrostatic test on 2-MS-SV-201A, 201B, 201C, 202A, 203B, 204C and 205C to satisfy the Code required hydrostatic test (DR-89-1394). The tests were performed and the valves were found to be acceptable.

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

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2. Plant North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
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4. Letter Serial No. 89-360, page 13 of 39, Repairs and Replacements, item AN (RR89-B011):

A commitment was made to perform the Section XI Code required preservice examination (visual) on 2-MS-SV-201A in place during normal operation (DR 89-1176). The studs and nuts were replaced with acceptable material under Bolting Program 90-B049.

5. Letter Serial No. 89-360, page 16 of 39, Repairs and Replacements, item BG (RR89-B031):

A commitment was made to perform a surface examination on studs which were replaced to satisfy the construction code requirement (DR 89-1260). The replacement studs were installed in the valve flange of 2-RC-SV-2551A. In lieu of performing the exam on the existing studs, the studs were replaced under Bolting Program 90-B042 with studs which had a preservice surface exam performed.

6. Letter Serial No. 89-360, page 17 of 39, Design Changes, item D (EWR-88-330):

A commitment was made to replace material supplied by Pressure Vessel Nuclear installed in high pressure safety injection system (DR 89-1309 and DR 89-1520). The material was replaced with certified material.

7. Letter Serial No. 89-360, page 19 of 39, Results, item K:

A commitment was made to reexamine and evaluate gouges between bolt holes 27 and 28 on the "B" manway on "A" steam generator, 1-RC-E-1A (DR 89-1553). The area was reexamined by liquid penetrant and was found to be acceptable.

SUPPLEMENTAL SHEET
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Hydrostatic Pressure Tests

The ASME Section XI required 10-year hydrostatic/pneumatic pressure tests were performed in accordance with Section XI, 1977 Edition, Summer 1979 Addenda, on the following systems. The tests performed were partial system tests and are identified below. The tests listed below complete the required ASME Section XI 10-year hydrostatic/pneumatic tests for the first inspection interval for North Anna Unit 2.

CLASS/TEST BLOCK DESCRIPTION

SYSTEM : BLOWDOWN

2-BD-1	"A" S/G BLOWDOWN, PEN. 39
2-BD-2	"B" S/G BLOWDOWN, PEN. 41
2-BD-3	"C" S/G BLOWDOWN, PEN. 40

SYSTEM : COMPRESSED AIR

2-CA-1A	INSTRUMENT AIR SUPPLY HEADER PENETRATION, PEN. 47
2-CA-2	RAD MONITOR PUMP SUPPLY HEADER PENETRATION, PEN. 44
2-CA-3A	RAD MONITOR PUMP RETURN HEADER PENETRATION, PEN. 43
2-CA-11	U2 RC TO ANALYZERS, PEN. 98
2-CA-12	POST DBA RECOMBINER RETURN TO U2 RC, PEN. 31
2-CA-13	U2 RC TO ANALYZERS, PEN. 105

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
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-

2-CA-14 POST DBA RECOMBINER RETURN TO U2 RC,
PEN. 109

During the test unimpaired flow could not be verified through 2-HC-TV-203A. The flow was reversed through 2-HC-TV-203A, the obstruction was cleared and unimpaired flow was verified by retest 2-CA-14A.

2-CA-15 U2 RC SUPPLY TO AIR SAMPLE PANEL, PEN. 98

SYSTEM : COMPONENT COOLING

2-CC-24 COMMON THERMAL BARRIER RETURN

3-CC-63 CC SUPPLY TO 2-RC-P-1C

3-CC-64 2-BD-E-1 (S/G BLOWDOWN VENT CONDENSER)

3-CC-70 CC RETURN FROM 2-RC-P-1B AND 2-RC-P-1C

3-CC-71 CC SUPPLY/RETURN FOR NEUTRON SHIELD TANK COOLERS

SYSTEM : CHEMICAL FEED

2-CF-1 "A", "B", "C" S/G CHEMICAL FEED, PEN. 111

SUPPLEMENTAL SHEET
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-

SYSTEM : CHARGING SYSTEM

- 3-CH-8 BIT TO EAST CONNECTION
- During the test 1-CH-106 was found to have a diaphragm leak. The diaphragm was replaced (WR 652857) and the system was retested satisfactorily.
- 2-CH-13A SEAL WATER INJECTION FILTERS
- 2-CH-24 SEAL WATER HEAT EXCHANGER
- 2-CH-25 LETDOWN TO NONREGENERATIVE HX.
- During the test the bottom flange of 2-CH-E-2 was found to be leaking. The flange studs were retorqued (WR 733752). The flange was reexamined and an inservice leak test was satisfactorily performed.
- 2-CH-26 LP LETDOWN-DEMIN. HEADER
- 2-CH-34 EXCESS LETDOWN TO RCP SEALWATER RETURN
- 3-CH-156 NORMAL CH SUCTION HEADER, BLENDER, AND BORIC ACID FILTER
- During the test 1-CH-145 and 2-CH-156 was found to be leaking. The diaphragms in each valve were replaced (1-CH-145 WR 465463 and 2-CH-156 WR 465162). The valves were reexamined and an inservice leak test was satisfactorily performed.
- 2-CH-41 RCP SEAL INJECTION RETURN, PEN. 19
- 3-CH-50 CH/RH/SI/RP RETURNS TO RWST

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
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2-CH-51 EXCESS LETDOWN HT.EX.

During the test 2-CH-HCV-2201 was found to be leaking by, the head gasket of 2-CH-E-4 was leaking, and boric acid build up was noted on the flange of 2-CH-346 and on 2-CH-HCV-2201. The seat ring, seat gasket, and packing were replaced on 2-CH-HCV-2201 (WO 091132). The valve was examined and determined to be acceptable. The flange studs of 2-CH-346 were removed, cleaned, examined, and determined be acceptable (WR 733558). The studs of 2-CH-E-4 were retorqued and reexamined and determined to be acceptable (WR 733559).

2-CH-53 LETDOWN TO HCV 2200 A, B, C

2-CH-55 CHARGING PUMP RECIRC. HEADER

SYSTEM : CONTAINMENT VACUUM

2-CV-1 "B" CONTAINMENT VACUUM PUMP SUCTION
PENETRATION, PEN. 92

2-CV-2 "A" CONTAINMENT VACUUM PUMP SUCTION
PENETRATION, PEN. 93

2-CV-3 CONTAINMENT VACUUM EJECTOR, P.N. 94

SYSTEM : VENT AND DRAIN

2-DA-1 CONTAINMENT SUMP PUMP SUCTION PENETRATION,
PEN. 38

2-DA-2 POST ACCIDENT SAMPLE SYSTEM TO SUMP, PEN.
111

2-DA-3 2-DA-TK-1 TO GASEOUS WASTE, PEN. 54

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
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-

2-CA-14 POST DBA RECOMBINER RETURN TO U2 RC,
PEN. 109

During the test unimpaired flow could not be verified through 2-HC-TV-203A. The flow was reversed through 2-HC-TV-203A, the obstruction was cleared and unimpaired flow was verified by retest 2-CA-14A.

2-CA-15 U2 RC SUPPLY TO AIR SAMPLE PANEL, PEN. 98

SYSTEM : COMPONENT COOLING

2-CC-24 COMMON THERMAL BARRIER RETURN
3-CC-63 CC SUPPLY TO 2-RC-P-1C
3-CC-64 2-BD-E-1 (S/G BLOWDOWN VENT CONDENSER)
3-CC-70 CC RETURN FROM 2-RC-P-1B AND 2-RC-P-1C
3-CC-71 CC SUPPLY/RETURN FOR NEUTRON SHIELD TANK COOLERS

SYSTEM : CHEMICAL FEED

2-CF-1 "A", "B", "C" S/G CHEMICAL FEED, PEN. 111

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
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SYSTEM : CHARGING SYSTEM

3-CH-8 BIT TO BAST CONNECTION

During the test 1-CH-106 was found to have a diaphragm leak. The diaphragm was replaced (WR 652857) and the system was retested satisfactorily.

2-CH-13A SEAL WATER INJECTION FILTERS

2-CH-24 SEAL WATER HEAT EXCHANGER

2-CH-25 LETDOWN TO NONREGENERATIVE HX.

During the test the bottom flange of 2-CH-E-2 was found to be leaking. The flange studs were retorqued (WR 733752). The flange was reexamined and an inservice leak test was satisfactorily performed.

2-CH-26 LP LETDOWN-DEMIN. HEADER

2-CH-34 EXCESS LETDOWN TO RCP SEALWATER RETURN

3-CH-36 NORMAL CH SUCTION HEADER, BLENDER, AND BORIC ACID FILTER

During the test 1-CH-145 and 2-CH-156 was found to be leaking. The diaphragms in each valve were replaced (1-CH-145 WR 465463 and 2-CH-156 WR 465162). The valves were reexamined and an inservice leak test was satisfactorily performed.

2-CH-41 RCP SEAL INJECTION RETURN, PEN. 19

3-CH-50 CH/RH/SI/RP RETURNS TO RWST

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

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2-CH-51 EXCESS LETDOWN HT.EX.

During the test 2-CH-HCV-2201 was found to be leaking by, the head gasket of 2-CH-E-4 was leaking, and boric acid build up was noted on the flange of 2-CH-346 and on 2-CH-HCV-2201. The seat ring, seat gasket, and packing were replaced on 2-CH-HCV-2201 (WO 091132). The valve was examined and determined to be acceptable. The flange studs of 2-CH-346 were removed, cleaned, examined, and determined be acceptable (WR 733558). The studs of 2-CH-E-4 were retorqued and reexamined and determined to be acceptable (WR 733559).

2-CH-53 LETDOWN TO HCV 2200 A, B, C

2-CH-55 CHARGING PUMP RECIRC. HEADER

SYSTEM : CONTAINMENT VACUUM

2-CV-1 "B" CONTAINMENT VACUUM PUMP SUCTION
PENETRATION, PEN. 92

2-CV-2 "A" CONTAINMENT VACUUM PUMP SUCTION
PENETRATION, PEN. 93

2-CV-3 CONTAINMENT VACUUM EJECTOR, PEN. 94

SYSTEM : VENT AND DRAIN

2-DA-1 CONTAINMENT SUMP PUMP SUCTION PENETRATION,
PEN. 38

2-DA-2 POST ACCIDENT SAMPLE SYSTEM TO SUMP, PEN.
111

2-DA-3 2-DA-TK-1 TO GASEOUS WASTE, PEN. 54

SUPPLEMENTAL SHEET
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SYSTEM : GASEOUS DRAINS

2-DG-1 PDTT TO GAS STRIPPER, PEN. 33

SYSTEM : FIRE PROTECTION

2-FP-1 FIRE PROTECTION SUPPLY, PEN. 34

SYSTEM : FEEDWATER

3-FW-1 AUX. FEEDWATER SUCTION FORM THE EMERGENCY
CONDENSATE STORAGE TANK

3-FW-2 AUX. FEEDWATER PUMPS SUCTION, RECIRC., AND
DISCHARGE LINES

3-FW-3 AUX. FEEDWATER PUMP DISCHARGE HEADERS

During the test 2-FW-PI-255A was found to
have a fitting leak. The fitting was
disassembled, cleaned, and reassembled (WR
733979).

SYSTEM : CONTAINMENT PURGE AND EXHAUST

2-HV-1 PURGE SUPPLY, PEN. 91

2-HV-2 PURGE EXHAUST, PEN. 90

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
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SYSTEM : LEAKAGE MONITORING

2-LM-1 LEAKAGE MONITORING SYSTEM, PEN. 55, 57,
97, AND 105

SYSTEM : MAIN STEAM

2-MS-1 2-RC-E-1A

During the test 2-MS-FT-2474 and the upper manway were leaking and packing leaks were noted on 2-MS-4, 2-MS-5, 2-MS-6, 2-MS-7, 2-FW-62. The manway bolts were tightened, and the packing was replaced on 2-MS-4, 2-MS-5, 2-MS-6, 2-MS-7. A portion of this piping was isolated during the test. This section was tested under 2-MS-4.

2-MS-2 2-RC-E-1B

A portion of this piping was isolated during the test. This section was tested under 2-MS-4.

2-MS-3 2-RC-E-1C

During the test the upper manway was found to be leaking and packing leaks were noted on 2-MS-94 and 2-MS-95. The manway bolts were tightened. A portion of this piping was isolated during the test. This section was tested under 2-MS-4.

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

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-

2-MS-4 STEAM SUPPLY TO 2-FW-P-2

During the test 2-MS-FT-207 and 2-MS-TV-209 were noted to have a body to bonnet leak. The flange gasket was replaced in each valve (WR 733563 2-MS-FT-207 and WO 265618 2-MS-TV-209), the valves were reexamined and determined to be acceptable.

SYSTEM : QUENCH SPRAY

2-QS-1 REFUELING WATER STORAGE TANK, 2-QS-TK-1

2-QS-2 2-QS-P-1A

2-QS-3 2-QS-TK-2 TO RWST (TRAIN 1 AND TRAIN 2)

2-QS-5 2-QS-P-1B

2-QS-6 CONTAINMENT SPRAY NOZZLES

A VT-2 report was not completed. Performance of periodic test 2-PT-63.3 satisfies the exam requirements of Section XI but not the reporting requirements.

2-QS-6A QUENCH SPRAY TO INSIDE RECIRC SPRAY SUMP

2-QS-7 CONTAINMENT SPRAY NOZZLES

A VT-2 report was not completed. Performance of periodic test 2-PT-63.3 satisfies the exam requirements of Section XI but not the reporting requirements.

2-QS-7A QUENCH SPRAY TO INSIDE RECIRC SPRAY SUMP

2-QS-8 QUENCH SPRAY PUMP RECIRC HEADER

SUPPLEMENTAL SHEET
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SYSTEM : REACTOR COOLANT

1-RC-2 RCS VENTS/DRAINS, RCP SEALENTS/DRAINS
1-RC-5 PZR SAFETIES LOOP SEAL DRAIN HEADER
1-RC-6 REACTOR VESSEL HEAD VENT
1-RC-7 PZR VENT

SYSTEM : RESIDUAL HEAT REMOVAL

1/2-RH-2 RHR PUMP SUCTION

This test was performed during startup
after the official end of the outage.

SYSTEM : REFUELING PURIFICATION

2-RP-3 RP SUPPLY, PEN. 103
2-RP-4 RP RETURN, PEN. 104

SYSTEM : RECIRCULATION SPRAY

2-RS-9 2-RS-P-1A
2-RS-10 2-RS-P-1B
2-RS-11 CONTAINMENT RS SPRAY NOZZLES

A VT-2 report was not completed.
Performance of periodic test 2-PT-63.3
satisfies the exam requirements of Section
XI but not the reporting requirements.

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
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2-RS-12	2-RS-P-2A
2-RS-13	2-RS-P-2B
2-RS-14	RS SUPPLY TO 2-RS-E-1C, PEN. 70
2-RS-15	RS SUPPLY TO 2-RS-E-1D, PEN. 71
2-RS-16	CONTAINMENT RS SPRAY NOZZLES
	A VT-2 report was not completed. Performance of periodic test 2-PT-63.3 satisfies the exam requirements of Section XI but not the reporting requirements.
3-RS-17	CASING COOLING TANK, 2-RS-TK-1
3-RS-18	2-RS-P-3A
3-RS-19	2-RS-P-3B
2/3-RS-20	2-RS-P-3A DISCHARGE
2/3-RS- 1	2-RS-P-3B DISCHARGE
2-RS-24	RS SUMP TO OUTSIDE RS PUMP SUCTION

SYSTEM : SAFETY INJECTION

2-SI-1A	2-SI-TK-1A
	During the test the packing of 2-SI-HCV-2853A was found to be leaking. The packing was replaced (WR 488165), the valve was reexamined, and an inservice leak test was satisfactorily performed.
2-SI-1B	2-SI-TK-1B

SUPPLEMENTAL SHEET
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2-SI-1C

2-SI-TK-1C

During the test, packing leaks were noted on 2-SI-271, 2-SI-276, and 2-SI-HCV-2853C. Flange leaks and boric acid accumulation were noted on 2-SI-LT-2928 and 2-SI-LT-2930. 2-SI-270 was found to be leaking by. The manway gasket was also leaking. The packing was replaced on 2-SI-271 (WR 628295), 2-SI-276 (WR 265616), and 2-SI-HCV-2853C (WR 265617). The flange studs and nuts were removed from 2-SI-LT-2928 (WR 488166) and 2-SI-LT-2930 (WR 488167), the studs and nuts were cleaned, reexamined, and reinstalled with a new gasket. The valve was rebuilt, seating surface was checked, and packing replaced on 2-SI-270 (WR 628294). The manway gasket was replaced, the studs retorqued (WR 628213), and reexamined and determined to be acceptable. An acceptable inservice leak test was performed after repairing all leaks.

2-SI-20

CONTAINMENT NITROGEN VENT TO WASTE GAS CHARCOAL FILTERS, PEN. 50

2-SI-21

NITROGEN SUPPLY TO ACCUMULATORS, PORVs and PRT, PEN. 53

During the test, the body to bonnet gasket was leaking on 2-SI-132. Test boundary valved 2-SI-132 was replaced per EWR-87-71 (less than 1 inch NPS - no Replacement Program required). An acceptable inservice leak test was performed after the replacement of 2-SI-132.

2-SI-24

INSIDE RS SUMP TO LOW HEAD SI PUMPS

2-SI-30

ACCUMULATOR MAKEUP LINE

SUPPLEMENTAL SHEET
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SYSTEM : SAMPLING SYSTEM

2-SS-1 STEAM GENERATOR SURFACE SAMPLE

SYSTEM : SERVICE WATER

3-SW-2 2-SW-P-4
3-SW-3 2-SW-P-1A
3-SW-4 2-SW-P-1B
3-SW-5 "A" SUPPLY/RETURN SW HEADER
3-SW-6 "B" SUPPLY/RETURN SW HEADER
3-SW-9 2-CC-E-1A SUPPLY/RETURN HEADERS

During the test the bottom manway flange was leaking. The flange was tightened under maintenance procedure O-MCM-0801-01. An acceptable inservice leak test was performed after the repair.

3-SW-10 2-CC-E-1B SUPPLY/RETURN HEADERS

During the test, the top flange gasket was found to be leaking. A new gasket was installed (WR 114679). The connection was reexamined and found to be acceptable.

3-SW-20 RSHX RETURN HEADERS

3-SW-25 2-RS-E-1A

3-SW-26 2-RS-E-1B

3-SW-27 2-RS-E-1C

3-SW-28 2-RS-E-1D

SUPPLEMENTAL SHEET
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SYSTEM : GASEOUS VENTS

2-VG-1 PDTT TO WASTE GAS, PEN. 48

SYSTEM : VACUUM PRIMING

2-VP-1 PENETRATION 89

SYSTEM : WATER TREATMENT

2-WT-1 2-RC-E-1A WET LAY UP CHEMICAL
FEED, PEN. 32

2-WT-2 2-RC-E-1B WET LAY UP CHEMICAL FEED, PEN.
100

2-WT-3 2-RC-E-1C WET LAY UP CHEMICAL FEED, PEN.
108

SUPPLEMENTAL SHEET
NIS - OWNER'S REPORT FOR INSERVICE INSPECTIONS
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ABSTRACT OF INTERVAL 1 EXAMINATIONS

Class 1

CATEGORY	ITEM NO	ISOMETRIC	ITEM	EXAM
B-A	B1.1	VGB-1-1100	RPV WELD 02	UT
B-A	B1.1	VGB-1-1100	RPV WELD 03	UT
B-B	B1.2	VGB-1-1100	RPV HEAD 04	UT
B-B	B1.2	VGB-1-1100	RPV WELD 05	UT
B-B	B1.2	VGB-1-1100	RPV WELD 06	UT
B-B	B1.2	VGB-1-1100	RPV WELD 07	UT
B-B	B1.2	VGB-1-1100	RPV WELD 08	UT
B-C	B1.3	VGB-1-1100	RPV WELD 01	UT
B-D	B1.4	VGB-1-1100A	RPV/NOZZ WELD 09	UT
B-D	B1.4	VGB-1-1100A	RPV/NOZZ 09NIR	UT
B-D	B1.4	VGB-1-1100A	RPV/NOZZ WELD 11	UT
B-D	B1.4	VGB-1-1100A	RPV/NOZZ 11NIR	UT
B-D	B1.4	VGB-1-1100A	RPV/NOZZ WELD 13	UT
B-D	B1.4	VGB-1-1100A	RPV/NOZZ 13NIR	UT
B-G-1	B1.9	VGB-1- 1100A	LIG 13	UT
B-G-1	B1.9	VGB-1- 1100A	LIG 14	UT
B-G-1	B1.9	VGB-1- 1100A	LIG 15	UT
B-G-1	B1.9	VGB-1- 1100A	LIG 16	UT
B-G-1	B1.9	VGB-1- 1100A	LIG 17	UT
B-G-1	B1.9	VGB-1- 1100A	LIG 18	UT
B-G-1	B1.9	VGB-1-1100A	LIG 19	UT
B-G-1	B1.9	VGB-1-1100A	LIG 20	UT
B-G-1	B1.9	VGB-1-1100A	LIG 21	UT
B-G-1	B1.9	VGB-1-1100A	LIG 22	UT
B-G-1	B1.9	VGB-1-1100A	LIG 23	UT
B-G-1	B1.9	VGB-1-1100A	LIG 33	UT
B-G-1	B1.9	VGB-1-1100A	LIG 34	UT
B-G-1	B1.9	VGB-1-1100A	LIG 35	UT
B-G-1	B1.9	VGB-1-1100A	LIG 36	UT
B-G-1	B1.9	VGB-1-1100A	LIG 37	UT
B-G-1	B1.9	VGB-1-1100A	LIG 38	UT
B-G-1	B1.9	VGB-1-1100A	LIG 39	UT
B-G-1	B1.9	VGB-1-1100A	LIG 52	UT
B-G-1	B1.9	VGB-1-1100A	LIG 53	UT
B-G-1	B1.9	VGB-1-1100A	LIG 54	UT
B-G-1	B1.9	VGB-1-1100A	LIG 55	UT
B-G-1	B1.9	VGB-1-1100A	LIG 56	UT
B-N-1	B1.15	VGB-1-1200	01 RX INTERNALS	VT+

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

1. Owner: Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, Virginia, 23060
 2. Plant: North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
 3. Plant Unit: Unit 2 4. Owner Certificate of Authorization (if required): N/A 5. Commercial Service Date: 12-14-80
 6. National Board Number for Unit: N/A

CATEGORY	ITEM NO	ISOMETRIC	ITEM	EXAM
B-N-3	BI.17	VGB-1-1200	02 REMOVABLE CORE SUPPT. STRUCT.	VT
B-O	B1.18	VGB-1-1300	CRD HSG WELD 48	UT
B-B	B2.1	VGB-1-2100	PZR WELD 01 15" THRU 20"	UT
B-B	B2.1	VGB-1-2100	PZR WELD 02 15" THRU 20"	UT
B-B	B2.1	VGB-1-2100	PZR WELD 03 15" THRU 20"	UT*
B-B	B2.1	VGB-1-2100	PZR WELD 04 15" THRU 20"	UT*
B-B	B2.1	VGB-1-2100	PZR WELD 05 15" THRU 20"	UT
B-B	B2.1	VGB-1-2100	PZR WELD 06 15" THRU 20"	UT
B-B	B2.1	VGB-1-2100	PZR WELD 07 0" THRU 20"	UT
B-H	B2.8	VGB-1-2100	PZR SUPT SKRT WELD 08 15" THRU 30"	UT
B-D	B2.2	VGB-1-2100	PZR/NOZZ WELD 13	UT*
B-G-2	B2.11	VGB-1-2100	PZR MNWY BLTS B11 THRU B16	VT
B-B	B3.1	VGB-1-3100	SG 3 WELD 3-01 320" THRU 327"	UT
B-D	B3.2	VGB-1-3100	SG/NOZZ 3ANIR	VT
B-D	B3.2	VGB-1-3100	SG/NOZZ 3BNIR	VT
B-G-2	B.3.10	VGB-1-3100	1-1 to 1-16	VT
B-G-2	B.3.10	VGB-1-3100	1-17 to 1-32	VT
B-J	B4.5	VGB-1-4106	RC PIPE WELD 03	UT
B-J	B4.5	VGB-1-4106	RC PIPE WELD 04	UT
B-J	B4.5	VGB-1-4201	SI PIPE WELD 01	UT
B-J	B4.5	VGB-1-4201	SI PIPE WELD 03	UT
B-F	B1.6	VGB-1-4300	RV NOZ/SE WELD 16DM	UT* PT
B-F	B3.3	VGB-1-4300	HX NOZ/SE WELD C4DM	UT* PT
B-F	B3.3	VGB-1-4300	HX NOZ/SE WELD 05DM	UT* PT
B-F	B4.1	VGB-1-4300	SE/PIPE WELD 04DM	UT PT

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

1. Owner Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, Virginia, 23060
 2. Plant North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
 3. Plant Unit Unit 2 4. Owner Certificate of Authorization (if required) N/A 5. Commercial Service Date 12-14-80
 6. National Board Number for Unit N/A

CATEGORY	ITEM NO	ISOMETRIC	ITEM	EXAM
B-F	B4.1	VGB-1-4300	SE/PIPE WELD 05DM	UT PT
B-F	B4.1	VGB-1-4300	SE/PIPE WELD 16DM	UT* PT
B-J	B4.5	VGB-1-4300	RC PIPE WELD 10	UT*
B-J	B4.5	VGB-1-4300	RC PIPE WELD 13	UT*
B-J	B4.7	VGB-1-4300	RC PIPE WELD 25BC	PT**A
B-J	B4.7	VGB-1-4300	RC PIPE WELD 26BC	PT
B-J	B4.8	VGB-1-4306	SI SOC. WELD 40	PT
B-J	B4.5	VGB-1-4307	RC PIPE WELD 15	UT
B-J	B4.5	VGB-1-4307	RC PIPE WELD 16	UT
B-J	B4.5	VGB-1-4307	RC PIPE WELD 17	UT
B-J	B4.5	VGB-1-4307	RC PIPE WELD 18	UT
B-J	B4.8	VGB-1-4308	RC PIPE WELD 20	UT
B-J	B4.8	VGB-1-4308	RC SOC. WELD 14	PT
B-J	B4.8	VGB-1-4308	RC SOC. WELD 15	PT
B-J	B4.8	VGB-1-4308	RC SOC. WELD 16	PT
B-J	B4.8	VGB-1-4308	RC SOC. WELD 17	PT
B-J	B4.8	VGB-1-4310	RC SOC. WELD 13	PT
B-J	B4.8	VGB-1-4310	RC SOC. WELD 14	PT
B-J	B4.8	VGB-1-4310	RC SOC. WELD 15	PT
B-J	B4.5	VGB-1-4311	RC PIPE WELD 11	UT
B-J	B4.5	VGB-1-4311	RC PIPE WELD 18	UT
B-J	B4.5	VGB-1-4311	RC PIPE WELD 19	UT
B-J	B4.5	VGB-1-4311	RC PIPE WELD 33	UT
B-J	B4.8	VGB-1-4312	RC SOC. WELD 16	PT
B-J	B4.8	VGB-1-4312	RC SOC. WELD 17	PT
B-J	B4.8	VGB-1-4312	RC SOC. WELD 18	PT
B-J	B4.8	VGB-1-4313	RC SOC. WELD 36	PT
B-J	B4.8	VGB-1-4313	RC SOC. WELD 37	PT
B-J	B4.8	VGB-1-4313	RC SOC. WELD 38	PT
B-J	B4.8	VGB-1-4313	RC SOC. WELD 41	PT
B-J	B4.8	VGB-1-4313	RC SOC. WELD 42	PT
B-J	B4.8	VGB-1-4313	RC SOC. WELD 43	PT
B-J	B4.8	VGB-1-4313	RC SOC. WELD 44	PT
B-J	B4.8	VGB-1-4313	RC SOC. WELD 45	PT
B-J	B4.8	VGB-1-4313	RC SOC. WELD 46	PT
B-J	B4.8	VGB-1-4313	RC SOC. WELD 47	PT
B-J	B4.8	VGB-1-4314	C/V SOC WELD 67	PT
B-J	B4.8	VGB-1-4314	C/V SOC WELD 70	PT
B-J	B4.8	VGB-1-4314	C/V SOC WELD 71	PT

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

1. Owner Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, Virginia, 23060
2. Plant North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
3. Plant Unit Unit 2 4. Owner Certificate of Authorization (if required) N/A 5. Commercial Service Date 12-14-80
6. National Board Number for Unit N/A

CATEGORY	ITEM NO	ISOMETRIC	ITEM	EXAM
B-J	B4.6	VGB-1-4314	C/V SOC WELD 72	PT
B-J	B4.8	VGB-1-4314	C/V SOC WELD 73	PT
B-J	B4.8	VGB-1-4314	C/V SOC WELD 74	PT
B-J	B4.8	VGB-1-4314	C/V SOC WELD 75	PT
B-F	B2.4	VGB-1-4500	PZR NOZ/SE	UT*
			WELD 01DM	PT
B-F	B4.1	VGB-1-4500	RC SE/PIPE	UT
			WELD 11	PT
B-F	B4.1	VGB-1-4500	RC SE/ PIPE	UT
			WELD 20	PT
B-F	B4.1	VGB-1-4501	RC SE/PIPE	UT
			WELD 28	PT
B-K-1	B4.9	VGB-1-4501	PZR LINE	UT
			INTEGRAL WELDED	PT NC
			SUPPORT, WS-2	
B-J	B4.5	VGB-1-4600	SI PIPE WELD 15	UT
B-J	B4.5	VGB-1-4600	SI PIPE WELD 16	UT
B-G-2	B4.12	VGB-1-4700	C/V FLG BLT 13 8S-16N	VT
B-G-2	B4.12	VGB-1-4700	C/V FLG BLT 14 8S-16N	VT
B-G-2	B4.12	VGB-1-4700	C/V FLG BLT 15 4S-8N	VT
B-G-2	B4.12	VGB-1-4700	C/V FLG BLT 16 12S-24N	VT
B-G-2	B4.12	VGB-1-4700	C/V FLG BLT 17 12S-24N	VT**B
B-G-2	B4.12	VGB-1-4700	C/V FLG BLT 17 1S RR90-B043	VT (PSI)
B-G-2	B4.12	VGB-1-4700	C/V FLG BLT 18 12S-24N	VT**C
B-G-2	B4.12	VGB-1-4700	C/V FLG BLT 18 1S RR90-B044	VT (PSI)
B-G-1	B5.1	VGB-1-5100A	2-RC-P-1A	UT
			RCP FLG BLT 1-24	
B-G-1	B5.3	VGB-1-5100A	2-RC-P-1A	VT
			RCP FLG BLT 1-24	
B-G-1	B5.1	VGB-1-5100A	2-RC-P-1C	UT
			RCP SH BLT 1-12	
B-G-1	B5.3	VGB-1-5100A	2-RC-P-1C	VT**D
			RCP SH BLT 1-12	
B-G-1	B5.1	VGB-1-5100A	2-RC-P-1C	UT (PSI)
			RCP SH BLT 2 RR90-B022	
B-G-1	B5.2	VGB-1-5100A	2-RC-P-1C	MT (PSI)
			RCP SH BLT 2 RR90-B022	
B-G-1	B5.3	VGB-1-5100A	2-RC-P-1C	VT (PSI)
			RCP SH BLT 2 RR90-B022	

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

1. Owner Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, Virginia, 23060
2. Plant North Anna Power Station, P. O. Box 402, Mineral, Virginia, 23117
3. Plant Unit Unit 2 4. Owner Certificate of Authorization (if required) N/A 5. Commercial Service Date 12-14-80
6. National Board Number for Unit N/A

CATEGORY	ITEM NO	ISOMETRIC	ITEM	EXAM
B-L-1	B5.6	VGB-1-5100B	RCP CASING WELD 2-RC-P-1A WELD 1-01	PT VT
B-L-1	B5.6	VGB-1-5100B	RCP CASING WELD 2-RC-P-1C WELD 3-01	PT VT
B-G-1	B6.1	VGB-1-6100	ITEM 05 3-1 - 3-24 LSV FLG BLT 2-RC-MOV-2594	UT VT**E
B-G-1	B6.1	VGB-1-6100	ITEM 06 3-25 - 3-48 LSV FLG BLT 2-RC-MOV-2595	UT VT**F
B-M-2	B6.7	VGB-1-6200	ITEM 24 VB-2875F 2-SI-185	VT
B-M-2	B6.7	VGB-1-6200	ITEM 25 VB-2875C 2-SI-187	VT
B-G-2	B6.9	VGB-1-6300	ITEM 32 12S-24N VBB-2505B	VT**G
B-G-2	B6.9	VGB-1-6300	ITEM 33 12S-12N VBB-2560B	VT**H
B-G-2	B6.9	VGB-1-6300	ITEM 34 8S-8N VBB-2557B	VT
B-G-2	B6.9	VGB-1-6300	ITEM 41 16S-32N VBB-2720B	VT
B-G-2	B6.9	VGB-1-6300	ITEM 42 4S-8N VBB-2587	VT
B-G-2	B6.9	VGB-1-6300	ITEM 43 12S-12N VBB-2876B	VT
B-G-2	B6.9	VGB-1-6300	ITEM 45 12S-12N VBB-2876F	VT
B-G-2	B6.9	VGB-1-6300	ITEM 47 12S-12N VBB-2505C	VT
B-G-2	B6.9	VGB-1-6300	ITEM 48 12S-12N VBB-2560C	VT
B-G-2	B6.9	VGB-1-6300	ITEM 50 8S-8N VBB-2557C	VT**I
B-G-2	B6.9	VGB-1-6300	ITEM 53 12S-12N VBB-SV-2551B	VT

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

-
1. Owner Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, Virginia, 23060
2. Plant North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
3. Plant Unit Unit 2 4. Owner Certificate of Authorization (if required) N/A 5. Commercial Service Date 12-14-80
6. National Board Number for Unit N/A
-

CATEGORY	ITEM NO	ISOMETRIC	ITEM	EXAM
B-G-2	B6.9	VGB-1-6300	ITEM 54 12S-12N VBB-SV-2551C	VT
B-G-2	B6.9	VGB-1-6300	ITEM 61 8S-8N VBB-2311	VT

- * - partial examination
** - indication (the letter refers to the item listed in the Results section)
*** - previous NIS-1 commitment
NC - Nonconformance (see nonconformance section for details)
(PSI) - Preservice Inspection
PO - exam done post outage
RR - Relief Request

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

-
1. Owner Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, Virginia, 23060
 2. Plant North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
 3. Plant Unit Unit 2 4. Owner Certificate of Authorization (if required) N/A 5. Commercial Service Date 12-14-80
 6. National Board Number for Unit N/A
-

Class 2

CATEGORY	ITEM NO.	ISOMETRIC	ITEM	EXAM
C-A	C1.1	VGB-2-1100	2-RC-E-1C WELD 3-08 380" THRU 430"	UT
C-D	C1.4	VGB-2-1100	2-RC-E-1A MANWAY B LIG. 27-28	PT***
C-A	C1.1	VGB-2-1150	2-CH-E-3 REGEN HX WELD 05 20" THRU 21"	UT*
C-A	C1.1	VGB-2-1150	2-CH-E-3 REGEN HX WELD 06 20" THRU 21"	UT*
C-A	C1.1	VGB-2-1210	2-SI-TK-1A ACCUM TANK WELD 1-01 147" THRU 151"	UT
C-A	C1.1	VGB-2-1210	2-SI-TK-1A ACCUM TANK WELD 1-03 289" THRU 297"	UT*
C-A	C1.1	VGB-2-1210	2-SI-TK-1A ACCUM TANK WELD 1-04 147" THRU 151"	UT*
C-C	C1.3	VGB-2-1210	2-SI-TK-1A ACCUM TANK WELD 1-05 4" THRU 43" RR90-210	PT
C-C	C1.3	VGB-2-1210	2-SI-TK-1A ACCUM TANK WELD 1-05 284" THRU 333" RR90-210	PT
C-A	C1.1	VGB-2-1300	2-CH-FL-4A SW INJ FILTER WELD 1-02 22" THRU 23"	UT*
C-A	C1.1	VGB-2-1300	2-CH-FL-4B SW INJ FILTER WELD 2-01 22" THRU 23"	UT*
C-G	C2.3	VGB-2-2100	LP.1 RELIEF VLV FLG. WELD 42 RELIEF REQ 88-154	MT
C-G	C2.1	VGB-2-2301	FW PIPE WELD 05	UT
C-F	C2.1	VGB-2-2521	RHR PIPE WELD 34 18" THRU 19 1/2"	UT*
C-F	C2.2	VGB-2-2523	SI PIPE WELD 19LS	UT*
C-F	C2.1	VGB-2-2525	SI PIPE WELD 4	UT* **J
C-F	C2.1	VGB-2-2526	SI PIPE WELD 17	PT*
C-F	C2.1	VGB-2-2526	SI PIPE WELD 44	UT*

SUPPLEMENTAL SHEET
NFS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, Virginia, 23060
 2. Plant North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
 3. Plant Unit Unit 2 4. Owner Certificate of Authorization (if required) N/A 5. Commercial Service Date 12-14-80
 6. National Board Number for Unit N/A

CATEGORY	ITEM NO.	ISOMETRIC	ITEM	EXAM
C-F	C2.1	VGB-2-2533	SI PIPE WELD 20 0" - 10.5"	UT*
C-F	C2.1	VGB-2-2533	SI PIPE WELD 21 RR90-203	UT*
C-F	C2.1	VGB-2-2533	SI PIPE WELD 22 RR90-138	UT* PT
C-F	C2.1	VGB-2-2534	SI PIPE WELD 14	UT*
C-F	C2.1	VGB-2-2534	SI PIPE WELD 15	UT
C-F	C2.1	VGB-2-2534	SI PIPE WELD 16	UT
C-F	C2.1	VGB-2-2534	SI PIPE WELD 17 RR90-139	UT
C-F	C2.1	VGB-2-2540	CH PIPE WELD 40	UT
C-F	C2.1	VGB-2-2541	CH PIPE WELD 35	UT
C-F	C2.1	VGB-2-2542	CH PIPE WELD 34	UT
C-F	C2.1	VGB-2-2548	BIT WELD 2	UT
C-F	C2.1	VGB-2-2548	BIT WELD 5	UT
C-D	C2.4	VGB-2-2600	FLG BLT ITEM 05 VGB-2-2510 FLANGE 1 4 STUDS	UT
C-D	C2.4	VGB-2-2600	FLG BLT ITEM 05 VGB-2-2510 FLANGE 1 20S-40N	VT
C-D	C2.4	VGB-2-2600	FLG BLT ITEM 10 2-MS-SV-205A FLANGE 12 STUDS	UT
C-D	C2.4	VGB-2-2600	FLG BLT ITEM 10 2-MS-SV-205A FLANGE 12S-24N	VT
C-D	C2.4	VGB-2-2600	FLG BLT ITEM 10 2-MS-SV-205A FLANGE 24W	VT PO
C-G	C6.10	VGB-2-3130	LO HD SI PMP 2-SI-P-1A WELD 4 RLF RQ. 89-405	PT*
C-G	C6.10	VGB-2-3130	LO HD SI PMP 2-SI-P-1A WELD 5 RLF RQ. 89-405	PT*
C-G	C6.10	VGB-2-3130	LO HD SI PMP 2-SI-P-1A WELD LS-4	PT*
C-G	C6.10	VGB-2-3130	LO HD SI PMP 2-SI-P-1A WELD LS-5	PT*

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

-
1. Owner Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, Virginia, 23060
 2. Plant North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
 3. Plant Unit Unit 2 4. Owner Certificate of Authorization (if required) N/A 5. Commercial Service Date 12-14-80
 6. National Board Number for Unit N/A
-

CATEGORY	ITEM NO.	ISOMETRIC	ITEM	EXAM
C-D	C2.4	VGB-2-4100	FLG BLT ITEM 17 VLV MS 201 C 2 STUDS	UT
C-D	C2.4	VGB-2-4100	FLG BLT ITEM 29 VLV 2890C 8 STUDS	UT
C-D	C2.4	VGB-2 4100	FLG BLT ITEM 30 VLV 2890D 8 STUDS	UT
C-D	C2.4	VGB-2-4100	FLG BLT ITEM 17 6S-6N	VT
C-D	C2.4	VGB-2-4100	FLG BLT ITEM 29 16S, 32N, & 32W	VT
C-D	C2.4	VGB-2-4100	FLG BLT ITEM 30 16S, 32N, 32W	VT

- * - partial examination
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 *** - previous NIS-1 commitment
 (PSI) - Preservice Inspection
 PO - exam done post outage
 RR - Relief Request

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Virginia Electric and Power Company, 5600 Dominion Blvd., Glen Allen, Virginia, 23060
 2. Plant North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
 3. Plant Unit Unit 2 4. Owner Certificate of Authorization (if required) N/A 5. Commercial Service Date 12-14-80
 6. National Board Number for Unit N/A

Component Supports

CAT.	Item	ISO	Mark Number	Line Number	Exam
C-E-2	C2.6	101A-2	SHP-R-215	32"-SHP-402-601-Q2	VT-3
C-E-2	C2.6	101A-3	SHP-R-214	32"-SHP-403-601-Q2	VT-3
C-E-2	C2.6	102B	WFPD-SH-41	16"-WFPD-423-601-Q2	VT-3
C-E-2	C2.6	102B	WFPD-R-41A	16"-WFPD-423-601-Q2	VT-3
D-B	IWD-2600	102E-1	WCMU-R-3	6"-WCMU-418-151-Q3	VT-3
D-B	IWD-2600	102E-1	WCMU-R-23	6"-WCMU-419-151-Q3	VT-3
D-B	IWD-2600	102E-1	WCMU-R-30	6"-WCMU-418-151-Q3	VT-3
D-B	IWD-2600	102E-1	WCMU-R-620	6"-WCMU-418-151-Q3	VT-3
D-B	IWD-2600	102E-2	WCMU-R-7	6"-WCMU-411-151-Q3	VT-3 **K
D-B	IWD-2600	102E-2	WCMU-R-626	8"-WCMU-405-151-Q3	VT-3
D-B	IWD-2600	102E-2	WCMU-R-627	8"-WCMU-405-151-Q3	VT-3
D-B	IWD-2600	102F-1	WAPD-R-17	6"-WAPD-402-601-Q3	VT-3
D-B	IWD-2600	102F-3	WAPD-R-20B	6"-WAPD-402-601-Q3	VT-3
D-B	IWD-2600	102F-2	WAPD-R-22A	6"-WAPD-401-601-Q3	VT-3
C-E-2	C2.6	103AA	SI-R-125	6"-SI-530-1502-Q1	VT-3
B-K-2	B4.10	103AD	SI-R-1	6"-SI-419-1502-Q1	VT-3
B-K-2	B4.10	103AE	RC-R-1	2"-RC-599-1502-Q1	VT-3
B-K-2	B4.10	103AY	RC-SH-3	2"-RC-458-1502-Q1	VT-3 **L
B-K-2	B4.10	103AY	RC-SH-3	3"-RC-619-1502-Q1	VT-3 **M
B-K-2	B4.10	103AY	RC-R-4	2"-RC-458-1502-Q1	VT-3
B-K-2	B4.10	103AY	RC-SH-18	2"-RC-620-1502-Q1	VT-3
B-K-2	B4.10	103AY	RC-SH-20	2"-RC-620-1502-Q1	VT-3
B-K-2	B4.10	103AY	RC-R-24	2"-RC-620-1502-Q1	VT-3
B-K-2	B4.10	103AZ	RC-R-1	2"-RC-620-1502-Q1	VT-3
B-K-2	B4.10	103AZ	RC-R-2	2"-RC-620-1502-Q1	VT-3
B-K-2	B4.10	103AZ	RC-R-3	2"-RC-620-1502-Q1	VT-3
B-K-2	B4.10	103AZ	RC-R-5	2"-RC-620-1502-Q1	VT-3
B-K-2	B4.10	103AZ	RC-R-13	2"-RC-620-1502-Q1	VT-3
B-K-2	B4.10	103AZ	RC-R-14	2"-RC-620-1502-Q1	VT-3
B-K-2	B4.10	103AZ	RC-R-27	2"-RC-620-1502-Q1	VT-3
B-K-2	B4.10	103BA	RC-SH-1	2"-RC-457-1502-Q1	VT-3 **N
B-K-2	B4.10	103BB	SI-A-3D	6"-SI-532-1502-Q1	VT-3
C-E-2	C2.6	103BB	SI-RH-96	6"-SI-531-1502-Q1	VT-3
B-K-2	B4.10	103BB	SI-R-250	6"-SI-532-1502-Q1	VT-3
B-K-2	B4.10	103BF	RC-R-1	2"-RC-600-1502-Q1	VT-3
B-K-2	B4.10	103BF	RC-R-2	2"-RC-600-1502-Q1	VT-3
B-K-2	B4.10	103BG	CH-R-25	2"-CH-410-1502-Q1	VT-3
B-K-2	B4.10	103BJ	CH-R-6	2"-CH-408-1502-Q1	VT-3
B-K-2	B4.10	103BK	RC-R-1	2"-RC-598-1502-Q1	VT-3

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, Virginia, 23060
 2. Plant North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
 3. Plant Unit Unit 2 4. Owner Certificate of Authorization (if required) N/A 5. Commercial Service Date 12-14-80
 6. National Board Number for Unit N/A

CAT.	Item	ISO	Mark Number	Line Number	Exam
B-K-2	B4.10	103BK	RC-R-2	2"-CH-598-153A-Q1	VT-3
B-K-2	B4.10	103CB	RC-R-1	2"-RC-616-1502-Q1	VT-3
B-K-2	B4.10	103CB	RC-SH-2	2"-RC-455-1502-Q1	VT-3 **O
B-K-2	B4.10	103CB	RC-SH-3	3"-RC-615-1502-Q1	VT-3
B-K-2	B4.10	103CB	RC-SH-3	2"-RC-616-1502-Q1	VT-3
B-K-2	B4.10	103CB	RC-R-4	2"-RC-616-1502-Q1	VT-3
B-K-2	B4.10	103CB	RC-R-33	2"-RC-453-1502-Q1	VT-3
B-K-2	B4.10	103DA-1	RC-SH-1	1"-RC-524-1502-Q1	VT-3
B-K-2	B4.10	103DA-2	RC-R-4	3"-RC-516-1502-Q1	VT-3 **P
B-K-2	B4.10	103DA-2	RC-R-9	3"-RC-516-1502-Q1	VT-3
B-K-2	B4.10	103DB-1	RC-R-3	2"-RC-553-1502-Q1	VT-3
B-Y-2	B4.10	103DB-1	RC-SH-1	2"-RC-553-1502-Q1	VT-3
B-K-2	B4.10	103DC-1	RC-SH-1	2"-RC-539-1502-Q1	VT-3
B-K-2	B4.10	103DC-1	RC-R-2	2"-RC-539-1502-Q1	VT-3 **Q
B-K-2	B4.10	103DC-1	RC-R-9	3"-RC-531-1502-Q1	VT-3
B-K-2	B4.10	103DC-2	RC-R-4	3"-RC-531-1502-Q1	VT-3
C-E-2	C2.6	104B-1	SI-R-31	10"-SI-542-153A-Q2	VT-3 **R
C-E-2	C2.6	104B-2	SI-SH-59	10"-SI-624-1502-Q1	VT-3
C-E-2	C2.6	104B-1	SI-SH-601	10"-SI-464-153A-Q2	VT-3
D-B	IWD-2600	105A-1	WS-A-3	16"-WS-433-151-Q3	VT-3 (PSI) **S
D-B	IWD-2600	105A-1	WS-R-4	16"-WS-433-151-Q3	VT-3 (PSI)
D-B	IWD-2600	105A-1	WS-R-5	16"-WS-433-151-Q3	VT-3
D-B	IWD-2600	105A-1	WS-R-6A	24"-WS-426-151-Q2	VT-3 (PSI)
D-B	IWD-2600	105A-1	WS-A-12	16"-WS-432-151-Q3	VT-3 (PSI) **T
D-B	IWD-2600	105A-1	WS-R-13	16"-WS-432-151-Q3	VT-3
D-B	IWD-2600	105A-1	WS-R-15A	24"-WS-428-151-Q3	VT-3 (PSI)
D-B	IWD-2600	105A-1	WS-A-21	16"-WS-430-151-Q2	VT-3 (PSI)
D-B	IWD-2600	105A-1	WS-A-23	16"-WS-431-151-Q3	VT-3 (PSI) **U
D-B	IWD-2600	105A-2	WS-R-8	24"-WS-426-151-Q2	VT-3 (PSI)
D-B	IWD-2600	105A-2	WS-R-17	24"-WS-428-151-Q2	VT-3 (PSI) **V
D-B	IWD-2600	105B-1	WS-R-29	24"-WS-434-151-Q2	VT-3 (PSI)
D-B	IWD-2600	105B-1	WS-R-30	24"-WS-434-151-Q2	VT-3 (PSI)
D-B	IWD-2600	105B-1	WS-R-36	24"-WS-436-151-Q2	VT-3 (PSI)
D-B	IWD-2600	105B-1	WS-R-37	24"-WS-436-151-Q2	VT-3 (PSI)
D-B	IWD-2600	105B-2	WS-R-25	24"-WS-441-151-Q2	VT-3 (PSI)
D-B	IWD-2600	105B-2	WS-A-33	16"-WS-440-151-Q3	VT-3 (PSI)
D-B	IWD-2600	105B-2	WS-R-34	24"-WS-436-151-Q3	VT-3
D-B	IWD-2600	105B-2	WS-A-40	16"-WS-438-151-Q3	VT-3 (PSI)
D-B	IWD-2600	107AAG	WCMU-R-10	6"-WCMU-412-151-Q3	VT-3 **W
D-B	IWD-2600	107AAG	WCMU-R-12	6"-WCMU-412-151-Q3	VT-3 **W
D-B	IWD-2600	107AAG	WCMU-R-13	6"-WCMU-412-151-Q3	VT-3 **W
D-B	IWD-2600	107AAG	WCMU-R-15	6"-WCMU-412-151-Q3	VT-3 **W

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CAT.	Item	ISO	Mark Number	Line Number	Exam
D-B	IWD-2600	107AAG	WCMU-R-16	6"-WCMU-412-151-Q3	VT-3 **W
D-B	IWD-2600	107AAG	WCMU-R-18A	6"-WCMU-412-151-Q3	VT-3 **W
D-B	IWD-2600	107AAG	WCMU-R-30	6"-WCMU-412-151-Q3	VT-3 **W
D-B	IWD-2600	107AAG	WCMU-R-31	6"-WCMU-412-151-Q3	VT-3 **W
D-B	IWD-2600	107AAG	WCMU-R-32	6"-WCMU-412-151-Q3	VT-3 **W
D-B	IWD-2600	107AAG	WCMU-R-33	6"-WCMU-412-151-Q3	VT-3 **W
D-B	IWD-2600	107AAG	WCMU-R-34	6"-WCMU-412-151-Q3	VT-3 **W
D-B	IWD-2600	107AAG	WCMU-R-151	6"-WCMU-412-151-Q3	VT-3
D-B	IWD-2600	107AAG	WCMU-R-153	6"-WCMU-412-151-Q3	VT-3
D-B	IWD-2600	107AAG	WCMU-R-155	6"-WCMU-412-151-Q3	VT-3
D-B	IWD-2600	107AAG	WCMU-R-193	6"-WCMU-412-151-Q3	VT-3
D-B	IWD-2600	107AAG	WCMU-A-635	6"-WCMU-412-151-Q3	VT-3
D-B	IWD-2600	107AAH	QS-R-43	6"-QS-420-152-Q3	VT-3 **X
D-B	IWD-2600	107AAH	QS-R-44	6"-QS-420-152-Q3	VT-3 **X
D-B	IWD-2600	107AAH	QS-R-45	6"-QS-420-152-Q3	VT-3 **X
D-B	IWD-2600	107AAH	QS-R-46	6"-QS-420-152-Q3	VT-3 **X
D-B	IWD-2600	107AAH	QS-R-47	6"-QS-420-152-Q3	VT-3 **X
D-B	IWD-2600	107AAH	QS-R-48	6"-QS-420-152-Q3	VT-3 **X
D-B	IWD-2600	107AAH	QS-R-49	6"-QS-420-152-Q3	VT-3 **X
D-B	IWD-2600	107AAH	QS-R-50	6"-QS-420-152-Q3	VT-3 **X
D-B	IWD-2600	107AAH	QS-R-51	6"-QS-420-152-Q3	VT-3 **X
D-B	IWD-2600	107AAH	QS-SH-52	6"-QS-420-152-Q3	VT-3 **X
D-B	IWD-2600	107DA	SHP-R-8	10"-SHP-471-601-Q3	VT-3
D-B	IWD-2600	107DB	SHP-RH-28	8"-SHP-477-601-Q3	VT-3
D-B	IWD-2600	107DB	SHP-RH-29	8"-SHP-476-601-Q3	VT-3
D-B	IWD-2600	107DB	SHP-RH-37	10"-SHP-475-601-Q3	VT-3
C-E-2	C2.6	107E	SI-R-203	8"-SI-440-153A-Q2	VT-3
C-E-2	C2.6	107E	SI-R-223	8"-SI-440-153A-Q2	VT-3 **Y
C-E-2	C2.6	107G	RS-R-608	8"-RS-458-153A-Q3	VT-3
B-K-2	B4.10	110A	RC-A-44	12"-RC-436-602-Q3	VT-3
B-K-2	B4.10	110B	RC-R-4	4"-RC-414-1502-Q1	VT-3
B-K-2	B4.10	110B	RC-R-9	4"-RC-414-1502-Q1	VT-3
B-K-2	B4.10	110B	RC-R-10	4"-RC-414-1502-Q1	VT-3
B-K-2	B4.10	110B	RC-R-12	4"-RC-414-1502-Q1	VT-3
B-K-2	B4.10	110B	RC-R-16	4"-RC-414-1502-Q1	VT-3
B-K-2	B4.10	110B	RC-R-17	4"-RC-414-1502-Q1	VT-3
B-K-2	B4.10	110B	RC-A-18	4"-RC-414-1502-Q1	VT-3
B-K-2	B4.10	110B	RC-R-19	4"-RC-414-1502-Q1	VT-3
B-K-2	B4.10	110C	RC-R-25	4"-RC-415-1502-Q1	VT-3
B-K-2	B4.10	110C	RC-R-28	4"-RC-415-1502-Q1	VT-3
B-K-2	B4.10	110C	RC-A-29	4"-RC-415-1502-Q1	VT-3
B-K-2	B4.10	110C	RC-R-35A	4"-RC-415-1502-Q1	VT-3

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

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 6. National Board Number for Unit N/A

CAT.	Item	ISO	Mark Number	Line Number	Exam
B-K-2	B4.10	110C	RC-R-35B	4"-RC-415-1502-Q1	VT-3
B-K-2	B4.10	110D	RC-R-31	4"-RC-415-1502-Q1	VT-3 **Z
B-K-2	B4.10	111AB	CH-SH-5	3"-CH-800-1502-Q1	VT-3 **AA
B-K-2	B4.10	111K	CH-R-1	2"-CH-416-1502-Q1	VT-3
B-K-2	B4.10	111K	CH-R-2	2"-CH-416-1502-Q1	VT-3
B-K-2	B4.10	111K	CH-R-3	2"-CH-416-1502-Q1	VT-3
B-K-2	B4.10	111K	CH-SH-4	2"-CH-416-1502-Q1	VT-3
B-K-2	B4.10	111K	CH-R-5	2"-CH-416-1502-Q1	VT-3
B-K-2	B4.10	111K	CH-R-6	2"-CH-416-1502-Q1	VT-3
B-K-2	B4.10	111K	CH-A-7	2"-CH-416-1502-Q1	VT-3
B-K-2	B4.10	111K	CH-A-8	2"-CH-416-1502-Q1	VT-3
B-K-2	B4.10	111K	CH-R-9	2"-CH-416-1502-Q1	VT-3
B-K-2	B4.10	111P	CH-A-1	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111Q	CH-R-2	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111Q	CH-A-3	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111Q	CH-A-4	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111Q	CH-A-5	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111Q	CH-R-6	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111Q	CH-R-7	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111Q	CH-A-8	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111Q	CH-R-9	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111Q	CH-R-10	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111Q	CH-R-11	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111Q	CH-A-12	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111R	CH-R-13	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111R	CH-R-14	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111R	CH-R-15	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111R	CH-R-16	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111R	CH-R-17	2"-CH-414-1502-Q1	VT-3
B-K-2	B4.10	111W	CH-R-2	2"-CH-468-1502-Q1	VT-3
B-K-2	B4.10	111W	CH-SH-4	2"-CH-468-1502-Q1	VT-3
B-K-2	B4.10	111W	CH-R-5	2"-CH-468-1502-Q1	VT-3
B-K-2	B4.10	111W	CH-R-6	2"-CH-468-1502-Q1	VT-3
B-K-2	B4.10	111W	CH-R-7	2"-CH-468-1502-Q1	VT-3
B-K-2	B4.10	111W	CH-R-13	2"-CH-468-1502-Q1	VT-3
C-E-2	C2.6	113A-1	SI-R-13	12"-SI-523-1502-Q3	VT-3
B-K-2	B4.10	113B	SI-R-1	12"-SI-468-1502-Q1	VT-3
C-E-2	C2.6	113C	RH-R-2	12"-RH-411-602-Q2	VT-3
B-K-2	B4.10	113C	RH-R-6	10"-RH-414-1502-Q1	VT-3
B-K-2	B4.10	113C	SI-SH-17A	12"-SI-469-1502-Q1	VT-3 **AB
B-K-2	B4.10	113C	SI-SH-17B	12"-SI-469-1502-Q1	VT-3 **AB

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

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1. Owner Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, Virginia, 23060
 2. Plant North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
 3. Plant Unit Unit 2 4. Owner Certificate of Authorization (if required) N/A 5. Commercial Service Date 12-14-80
 6. National Board Number for Unit N/A
-

CAT.	Iter.	ISO	Mark Number	Line Number	Exam
B-K-2	B4.10	113C	SI-R-34	12"-SI-469-1502-Q1	VT-3
D-B	IWD-2600	11715- 118N-3	CC-R-417	18"-CC-420-151-Q3	VT-3 **AC
D-B	IWD-2600	11715- 118N-3	CC-R-418	18"-CC-419-151-Q3	VT-3 **AD
D-B	IWD-2600	N8919-2 -M-704	WAPD-H-1007	6"-WAPD-451-601-Q3	VT-3 (PSI)
D-B	IWD-2600	N8919-2 -M-705	WAPD-H-1006	6"-WAPD-451-601-Q3	VT-3 (PSI)
D-B	IWD-2600	N8919-2 -M-706	WAPD-H-1008	6"-WAPD-451-601-Q3	VT-3 (PSI)
D-B	IWD-2600	N8919-2 -M-708	WAPD-H-20	6"-WAPD-401-601-Q3	VT-3 (FSI)
D-B	IWD-2600	N8919-2 -M-709	WAPD-H-625	6"-WAPD-403-601-Q3	VT-3 (PSI)

- * - partial examination
 ** - indication (the letter refers to the item listed in the Results section)
 *** - previous NIS-1 commitment
 (PSI) - Preservice Inspection
 PO - exam done post outage
 RR - Relief Request

ATTACHMENT II

INSERVICE INSPECTION REPORT

of the

North Anna Power Station

Unit 2

P.O. Box 402

Mineral, Virginia 23117

for

Virginia Electric and Power Company

5000 Dominion Boulevard

Glen Allen, Virginia 23060

Commercial Service Date: December 14, 1980

Operating Capacity: 944 MWe (net)

Refueling Outages: 1st Period, 2nd Interval

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 Unit 2 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 12-14-80 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.
REACTOR VESSEL	RDM ROTTERDAM	30662	VA 61445	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 9-15-90 to 10-30-90 9. Inspection Interval from 12-14-1990 to 12-14-2000
10. Applicable Editions of Section XI 1983 Addenda _____
11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. Pages 3 -5
12. Abstract of Conditions Noted. N/A
13. Abstract of Corrective Measures Recommended and Taken. N/A

We certify that the statements made in this report are correct and the examinations and 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 January 24, 1991 Signed Virginia Power By EW Throckmorton
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 5-7-89 to 10-30-90, 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 inspection plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and 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.

William E. Fisher Commissions VA-558
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 Jan 1991

SUPPLEMENTAL SHEET
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-

Interval 2 Examination Summary

Introduction

Interval 2 inservice examinations of Class 1 components and piping were conducted at North Anna Power Station Unit 2 from September 15, 1990 to October 30, 1990.

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, W. E. Huber, C. A. Ireland, and C.E. Metcalfe), North Anna Station Quality Assurance Department, and the North Anna technical staff.

Limitations

Some of the arrangements and details of the piping system and components were designed and fabricated before the access and examination requirements of Section XI of the 1983 Code could be applied; consequently some examinations are limited or not practical due to geometric configuration or accessibility.

Examinations

Examinations were conducted to satisfy the requirements of 1983 Edition of Section XI. 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 angles or methods were considered in an attempt to achieve the maximum examination volume. Generally partial exams (PARs) are noted at fitting to fitting assemblies and where integrally welded supports, lugs or hangers, etc., preclude access to some part of the examination area.

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

1. Owner Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, Virginia, 23060
 2. Plant North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
 3. Plant Unit Unit 2 4. Owner Certificate of Authorization (if required) N/A 5. Commercial Service Date 12-14-80
 6. National Board Number for Unit N/A
-

Interval 2 Results

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

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, Virginia, 23060
 2. Plant North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
 3. Plant Unit Unit 2 4. Owner Certificate of Authorization (if required) N/A 5. Commercial Service Date 12-18-80
 6. National Board Number for Unit N/A

ABSTRACT OF INTERVAL 2 EXAMINATIONS

CATEGORY	ITEM NO	ISOMETRIC	ITEM	EXAM
B-A	B1.3	12050-WMKS-RC-R-1.1	WELD 1 0° THRU 71.38°	UT
B-A	B1.30	12050-WMKS-RC-R-1.1	WELD 1 139.66° THRU 164.49°	UT
B-A	B1.30	12050-WMKS-RC-R-1.1	WELD 1 238.97° THRU 313.45°	UT
B-A	B1.30	12050-WMKS-RC-R-1.1	WELD 1 344.49° THRU 360.00°	UT
B-D	B3.90	12050-WMKS-RC-R-1.1	WELD 10	UT
B-D	B3.90	12050-WMKS-RC-R-1.1	WELD 12	UT
B-D	B3.90	12050-WMKS-RC-R-1.1	WELD 14	UT
B-D	B3.100	12050-WMKS-RC-R-1.1	WELD 10NIR	UT
B-D	B3.100	12050-WMKS-RC-R-1.1	WELD 12NIR	UT
B-D	B3.100	12050-WMKS-RC-R-1.1	WELD 14NIR	UT
B-F	B5.10	12050-WMKS-109E-1	WELD 1	UT
B-F	B5.10	12050-WMKS-109E-1	WELD 13	UT
B-F	B5.10	12050-WMKS-109E-1	WELD 25	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 1	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 2	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 3	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 4	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 5	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 6	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 7	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 8	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 9	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 10	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 11	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 12	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 24	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 25	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 26	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 40	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 41	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 42	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 43	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 44	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 45	UT

SUPPLEMENTAL SHEET
NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

-
1. Owner: Virginia Electric and Power Company, 5000 Dominion Blvd., Glen Allen, Virginia, 23060
2. Plant: North Anna Power Station, P.O. Box 402, Mineral, Virginia, 23117
3. Plant Unit: Unit 2 4. Owner Certificate of Authorization (if required): N/A 5. Commercial Service Date: 12-14-80
6. National Board Number for Unit: N/A
-

CATEGORY	ITEM NO	ISOMETRIC	ITEM	EXAM
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 46	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 47	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 48	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 49	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 50	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 51	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 57	UT
B-G-1	B6.40	12050-WMKS-RC-R-1.2	THRDS IN FLANGE 58	UT

ATTACHMENT III

INSERVICE INSPECTION REPORT

of the

North Anna Power Station

Unit 2

P.O. Box 402

Mineral, Virginia 23117

for

Virginia Electric and Power Company

500th Dominion Boulevard

Glen Allen, Virginia 23060

Commercial Service Date: December 14, 1980

Operating Capacity: 944 MWe (net)

Refueling Outages: 3rd Period, 1st Interval

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 Co Date Sept 18, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 ROR 90-138
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Co Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Mineral, VA 23117 Expiration Date N/A
Address
4. Identification of System Safety Injection
5. (a) Applicable Construction Code B 31.7 1969 Edition, W 70 Addenda, 78, 81(R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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>Pipe</u>	<u>Southwest Fab</u>	<u>N/A</u>	<u>N/A</u>	<u>Weld #22</u> <u>2-SJ-PP-Nura</u>	<u>1976</u>	<u>Repaired</u>	<u>No</u>

7. Description of Work Ground Weld for UT exam
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi; Test Temp. _____ °F
NDE-PT and UT

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 Repair 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 [Signature] Eng'r Date Sept 18, 19 90
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 WIRGINIA and employed by Hartford Steam Boiler I & E CO of Hartford CT have inspected the components described in this Owner's Report during the period 25 Aug 1990 to 13 Sept 1990, 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.

William E. Khan Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 18 Sept 19 90

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 Co Name Date Sept 18 1990
5000 Dominion Blvd Glen Allen VA Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address R&R 90-139
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Name Type Code Symbol Stamp N/A
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Safety Injection
5. (a) Applicable Construction Code B 31.7 19 69 Edition, W 70 Addenda 70, 81(R), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
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>Pipe</u>	<u>Southwest Fab</u>	<u>N/A</u>	<u>N/A</u>	<u>Weld #17</u> <u>2-32-PP-NUM8</u>	<u>1976</u>	<u>Repaired</u>	<u>No</u>

7. Description of Work Ground weld for UT exam.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
NDE - RT and UT

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 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 [Signature] Engl Date Sept 18, 19 90
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 State or Province of VIRGINIA and employed by Hartford Steam Boiler I + I CO of Hartford Steam Boiler, Hartford CT have inspected the components described in this Owner's Report during the period 25 Aug 90 to 13 Sept 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 18 Sept 19 90

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 Co Name
5000 Dominion Blvd Glen Allen, VA 23060 Address
Date November 9, 1990
Sheet 1 of 1
2. Plant North Anna Power Station Name
P.O. Box 402 Mineral, VA 23117 Address
Unit 2
R&R 90-152 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Co Name
P.O. Box 402 Mineral, VA 23117 Address
Type Code Symbol Stamp RA
Authorization No. N/A
Expiration Date N/A
4. Identification of System Charging
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 79, 81, 83, 84, 85 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
Valve	ITT Gainwell	N/A	N/A	2-CH-124	N/A	Replaced	No
Valve	ITT Gainwell	89-58199-1-2	N/A	2-CH-124	1989	Replacement	No

7. Description of Work Replaced valve bonnet
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
VT-2

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)

D. Remarks ASME Class 2

Applicable Manufacturer's Data Reports to be attached
Replacement bonnet ^{was} manufactured to class 3 specs. It
was upgraded to class 2 by performance of both PT and RT exams
on bonnet.

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 [Signature] Engr Date November 9 19 90
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. & J. CO of Hartford CT have inspected the components described in this Owner's Report during the period 7 Sept 1990 to 24 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions V0558
Inspector's Signature National Board, State, Province, and Endorsements

Date 15 Nov 19 90

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 Co. Date January 10, 1991
Name
5000 Dominion Blvd Glen Allen, VA 23060 Sheet 1 of 2
Address SEP 1981

2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 R+R 90-159
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Fluor Daniel Type Code Symbol Stamp N/A
Name Authorization No. N/A
Daniel Bldg Greenville, SC 29601 Expiration Date N/A
Address

4. Identification of System: Reactor Coolant

5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda, 78, 81, 83(R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 SB3

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)
Clevis Pin	Grinnell	N/A	N/A	2-RC-HSS-3C	N/A	Replaced	No
Clevis Pin	Grinnell	6074503	N/A	2-RC-HSS-3C	1987	Replacement	No
Spinner Nut	Grinnell	N/A	N/A	2-RC-HSS-3C	N/A	Replaced	No
Spinner Nut	Grinnell	C1626-5	N/A	2-RC-HSS-3C	1987	Replacement	No
Jam Nut	Grinnell	N/A	N/A	2-RC-HSS-3C	N/A	Replaced	No

7. Description of Work Replaced Clevis Pin, Spinner Nut and Jam Nut which were damaged during Snubber Removal.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
VT-3

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)

6. 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 A.P. Hamilton LEAD ISI ENGR. Date January 10 19 91
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. CO. of Hartwood CT have inspected the components described in this Owner's Report during the period 17 Sept 1990 to 3 Oct 1990, 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.

W. Allen G. Baker Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 14 Jan 19 91

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 Co Date November 28, 1990
Name
5000 Dominion Blvd Glen Allen VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral VA 23117 Address R&R 90-192
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp N/A
Name
P.O. Box 402 Mineral VA 23117 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Main Steam
5. (a) Applicable Construction Code B31.7 1969 Edition, W70 Addenda 200, 230, 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 543
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>Valve</u>	<u>Fisher</u>	<u>5091028</u>	<u>N/A</u>	<u>2-MS-PCV-204A</u>	<u>1975</u>	<u>Repaired</u>	<u>No</u>

7. Description of Work Repaired Steam Cuts on Gasket Seating Surface
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure None
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)

2. 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 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 [Signature] Engr Date November 28, 19 90
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 Vermont and employed by A.S.B. & T. CO of Windsor VT have inspected the components described in this Owner's Report during the period 29 Sept 1990 to 5 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions UATXX
Inspector's Signature National Board, State, Province, and Endorsements

Date 13 Dec 19 90

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 Co. Date November 15, 1990
Name
5000 Dominion Blvd Glen Allen, VA. 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 R&R 90-195 EWR 90-342
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric + Power Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Mineral, VA. 23117 Expiration Date N/A
Address
4. Identification of System Charging
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 78, 81, 83(R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
Valve	Walworth	063552	N/A	2-CH-408	1976	Replaced	No
Valve	Westinghouse	04000GH 88 00008000574 0005	N/A	2-CH-408	1977	Replacement	No

7. Description of Work Replaced 4" valve; Old valve did not operate properly & had body to bonnet leak
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 3419 psi Test Temperature ambient °F
VT-2

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 [Signature] Date November 16 19 90
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.I. & I CO of Hampton VA have inspected the components described in this Owner's Report during the period 8 Oct 1990 to 17 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 19 Nov 19 90

APPENDIX V MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

ATTACHMENT III
Re-Issue of 1/26/77

1. Manufactured by WESTINGHOUSE ELECTRO-MECHANICAL DIVISION S.O. H03B
CHESWICK AVENUE, CHESWICK, PA 15024
(Name & Address of Manufacturer) Order No. DTJC-88982
2. Manufactured for BECHTEL POWER CORP.
1100 SOUTH STATE ROAD, ANN ARBOR, MI 48106 Order No. 7220-M-123-A
(Name and Address)
3. Owner Consumers Power Company, Midland, Michigan
4. Location of Plant Consumers Power Co. Midland Plant Units 1 and 2, Midland, Michigan
5. Pump or Valve Identification 04000GH88000080005740005
Valve I.D. 4"-CCH-GT-L Loc. No. Item 1.1
4"-1500 Manual Operated Gate Valve
(Brief description of service for which equipment was designed)

- (a) Drawing No. 5059D92 Prepared by J. S. Zelenak
- Ref. Dwg. 1165E42
- (b) National Board No. N/A
6. Design Conditions N/A psi N/A °F Pressure Class 1500
(Pressure) (Temperature)
7. The material, design, construction, and workmanship complies with ASME Code Section III, Class _____
- Edition 1974, Addenda Date 574, Case No. 1553-1, 1580-1, 1672

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings				
(b) Forgings				
Body	S/N 2602	SA 182 GR F316	PARK DROP FRG.DIV.	Ht. No. 69926
Bonnet	S/N 3169	SA 182 GR F316	PARK DROP FRG.DIV.	Ht. No. 67808
Disc	S/N 726	SA 182 GR F316	McWIS FRG. CO.	Ht. No. 65793
Stem	S/N 672	SA 564 GR 630	JERPAK-BAYLESS	Ht. No. 67552

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1, 2, 6a and 7b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Main Flange Studs	SA 453 GR 660	R.E.C. Corp.	Ht. No. C31142-6
Main Flange Nuts	SA 194 GR 86	SPS Company	Ht. No. 60187
(d) Other Parts			

B. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electro-Mechanical Division
 Stress analysis report on file at Westinghouse Electro-Mechanical Division
 Design specifications certified by James C. DiPerna (I) Prof. Eng. State PA Reg. No. 15372-E
 Stress analysis report certified by Harry E. Eminger (I) Prof. Eng. State PA Reg. No. 10729-E
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date 2-3 1977 Signed Westinghouse Electro-Mechanical Division By [Signature]
(Manufacturer)

Certificate of Authorization No. 1385 expires May 14, 1979

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Lumbermens Mutual Casualty Co. of Long Grove, Illinois have inspected the equipment described in this Data Report on NOV 3 1976, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section II.

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

Date FEB 4 1977

C.F. Miller (Inspector) Commission NI 4 847 (National Board, State, Province and No.)

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 Co Name Date December 13, 1990
5000 Dominion Blvd. Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address RoR 90-197
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Westinghouse Electric Corp. Name Type Code Symbol Stamp N/A
P.O. Box 355 Pittsburgh, PA 15230 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME III 19 68 Edition, W68 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
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>Steam Generator</u>	<u>Westinghouse</u>	<u>1281</u>	<u>68-95</u>	<u>2-RC-E-1A</u>	<u>1973</u>	<u>Repaired</u>	<u>Yes</u>

7. Description of Work Plugged 2 tubes because of linear indications in tube wall
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
VT-1

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
Plugged tubes R30, C59 and R38, C73
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 [Signature] Engr Date Dec 13 19 90
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.B. & F. CO of Hampton VA have inspected the components described in this Owner's Report during the period 2 Sept 1990 to 30 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Inspector's Signature Commissions VA 558 National Board, State, Province, and Endorsements

Date 24 Dec 19 90

FORM NO. 1-1961 VESSELS DATA REPORT FOR ALL CLASS VESSELS
 As required by the Provisions of the ASME Code Rules

1. Manufactured by Westinghouse Electric Corporation, Tampa Division, Tampa, Florida 1281
 (Name and address of manufacturer)
 2. Manufactured for Virginia Electric Power - North Ann, Va. 2
 (Name and address of purchaser)
 3. Type Vertical Kind Steam Gen. Vessel No. 1281 Nat'l Bd. No. 68-95 Yr. Built 1973
 (Name, or Vert.) (Tank, Jacketed, Heat Ex.) (Mfr. Spec. No., Part & Date No.)
 5a. Applicable ASME Code: Section III, Edition 1968 Appendix W-68, Case No. _____
 Class A

Items 4-8 incl. to be completed for single wall vessels, jacketed or jacketed vessels, or shells of heat exchangers.
 SA-533

4. Shell Material GR A CL1 T.S. 80000 Corrosion Allowance 06 in. Dia. 06 ft. 06 in. Length 06 ft. 06 in.
 (Kind & Spec. No.) (Min. of range specified) (In. or ft.)
 5. Seams: Long Weld-Dbl Butt Yes R.T. Complete Efficiency _____ %
 Girth Weld-Dbl Butt Yes R.T. Complete No. of Courses *
 SA-533
 6. Heads (a) Material GR A CL1 T.S. 80000 (b) Material _____ T.S. _____

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a) Top	3.62			2:1				CONCAVE
(b)								

If removable, bolts used _____ (Material, Spec. No., T.S., Size, Number) Other fastening _____ (Describe or attach sketch)

7. Assy Closure *Girth Weld-Dbl. Butt; H.T.; X, R. Complete
 Girth Weld (Describe as edge & weld, bar, etc. V bar give dimensions, describe or sketch)
 Drop Weight _____ Pneumatic _____
 Charpy Impact 30 ft-lb Hydrostatic or } Test Pressure 1356 psi
 B. Design Pressure 1085 psi at 600 °F at temp. of +10 °F. Combination } @ 70 °F min.

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary. Material SA-508 CL2 Dia. 125.75 in. Thickness 21.03 in. Attachment See Item 12
 (Kind & Spec. No.) (Subject to press.) (Welded, Bolted)
 Floating. Material _____ Dia. _____ in. Thickness _____ in. Attachment _____
 (Kind & Spec. No.)
 10. Tubes: Material SE-163 O.D. 7/8 in. Thickness .050 inches Number 3388 Type U
 (Kind & Spec. No.) (Straight or U)

Items 11 to 14 incl. to be completed for Primary Chamber

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
 (Kind & Spec. No.) (Min. of range specified)
 12. Seams: Long _____ H.T. ¹ _____ R.T. _____ Efficiency _____ %
 (Welded, Dbl., Single) (Yes or No)
 Girth Weld-Dbl Butt H.T. ¹ Yes R.T. Complete No. of Courses *
 SA-216
 13. Heads: (a) Material _____ T.S. _____ (b) Material GR WCC T.S. 70000 (c) Material _____ T.S. _____

Location	Nom. Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a) Top, bottom, ends								
(b) Channel	5.09					62.81		concave
(c) Floating								

 If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____ (Describe or attach sketch)
 Drop weight _____ Pneumatic _____
 Charpy Impact 20 ft-lb Hydrostatic or } Test Pressure 3106 psi
 14. Design pressure 2485 psi at 650 °F at temp. of +10 °F. Combination } @ 70 °F min.

¹ If Postweld Heat-Treated

FORM N-1 (back)

1281
1281

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Prim. Inlet	1	31" I.D.	(Weld)	(SA-216)	1.5"	(SA-216)	(Integrally)
Prim. Outlet	1	31" I.D.	(End)	(GR WCC)	1.5"	(GR WCC)	(Cast)
Steam Outlet	1	29" I.D.	(Weld)	(SA-508)	1.5"	Steel	Welded
Feedwater	1	14.31 I.D.	(End)	(CL.2)	0.843"	Steel	Welded

17. Inspection Manholes, No. 4 Size 16" Location (2) Chamber & (2) Upper Shell
 Opening: Handholes, No. 2 Size 6" Location Stub Barrel Portion of Lower Shell
 Threaded, No. _____ Size _____ Location _____

18. Supports: Skin No Lugs _____ Legs _____ Other X Attached See Below
 Four Main Supports are Cast Integral with the chamber (Where & How)

19. Remarks: This N-1 form is to be signed off by the authorized code inspector under certificate of shop inspection for everything listed except the hydrostatic test and subsequent inspection. Field inspector must sign off for the latter items on certificate of field assembly inspection below. All other Mfg. is specified on manufacture's partial data forms N-2 filed at Westinghouse.
 (Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electric Corporation, Tampa Division, Tampa, Fla.
 Stress analysis report on file at Westinghouse Electric Corporation, Tampa Division, Tampa, Fla.
 Design specifications certified by (W) Atomic Power Division Prof. Eng. Dist. W. Seth Reg. No. 13331-E
 Stress analysis report certified by (W) Atomic Power Division Prof. Eng. Dist. A. Lohmeier Reg. No. 13436

We certify that the statements made in this report are correct and that this nuclear vessel conforms to the rules of construction of the ASME Code, Section III.
 Date February 16 1973 Signed Westinghouse Elec. By S.S. Wadler 2/16/73
 (Manufacturer) Corp.
 Certificate of authorization Expires May 3, 1975 Certificate of Authorization No. N-439

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Westinghouse Electric Corporation at Tampa, Florida
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by Lumbermans Mutual Ins. Co. Chicago, Ill.
 have inspected the pressure vessel described in this Manufacturer's Data Report on May 18 1973, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with the ASME Code, Section III.
 By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date May 18 1973
Leonard T. Willey Inspector's Signature
 Commission National Board 2653
 National Board, State, Province and No.

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____
 have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Pneumatic Test of _____ psig Primary Side & _____ psig Secondary Side.
 By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date _____ 19_____
 _____ Inspector's Signature
 Commission _____
 National Board, State, Province and No.

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 Co Name Date December 18, 1990
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address ROR 90-700 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Fluck David Name Type Code Symbol Stamp M/A
Daniel Bldg. Greenville, S.C. 29601 Address Authorization No. M/A
Expiration Date M/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code B31.7 1969 Edition, 470 Addenda, 704, 83(R), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 583

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)
Swabbler	Taylor	006	M/A	-RC- 2-HSS-3A	1989	Replaced	No
Swabbler	Taylor	015	M/A	2-RC-HSS-3A	1989	Replacement	No

7. Description of Work Replaced Swabbler because of loss of fluid pressure
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
VT-3

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 ¹³⁰ ASME Class 2-1
Applicable Manufacturer's Data Reports to be attached
Swabber was replaced before R&R package was approved. DR 90-1426
addressed this discrepancy. All work was performed to code.

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 M/A

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

Signed [Signature] Date Dec 18, 19 90
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 HARTFORD STEEL BOILER I & I Co. of HARTFORD, CT. have inspected the components described in this Owner's Report during the period 17 Sept 1990 to 23 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions: VR558
Inspector's Signature National Board, State, Province, and Endorsements

Date 15 Jan 19 91

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 Co Name
5000 Dominion Blvd, Glen Allen, VA 23060 Address
Date December 19, 1990
Sheet 1 of 1
2. Plant North Anna Power Station Name
P.O. Box 402 Mineral, VA 23117 Address
Unit 2
Ref 90-201
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Flood Daniel Name
Daniel Bldg Greenville, S.C. 29601 Address
Type Code Symbol S. No. N/A
Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 7881, P3CA115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
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)
scrubber	Taylor	005	N/A	2-RC-HSS-3C	1989	Replaced	No
scrubber	Taylor	014	N/A	2-RC-HSS-3C	1989	Replacement	No

7. Description of Work Replaced Scrubber because of loss of fluid pressure
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
VT-3

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
Saubber was replaced before Rob Pockoga was approved. DR 90-1426
addressed this discrepancy. All work was performed to code.

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this <u>Replacement</u> conforms to the rules of the ASME Code, Section XI. <small>repair or replacement</small>	
Type Code Symbol Stamp <u>N/A</u>	
Certificate of Authorization No. <u>N/A</u>	Expiration Date <u>N/A</u>
Signed <u>A.P. Hamill</u> <small>Owner or Owner's Designee, Title</small>	<u>LEAD ISI ENGINEER</u> Date <u>Dec 19</u> , 19 <u>90</u>

CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>VIRGINIA</u> and employed by <u>H. S. B. F. & I. CO.</u> of <u>Hartford CT</u> have inspected the components described in this Owner's Report during the period <u>17 Sept 1990</u> to <u>5 Oct 1990</u> , 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.	
<u>William E. Weber</u> <small>Inspector's Signature</small>	Commissions <u>VA 278</u> <small>National Board, State, Province, and Endorsements</small>
Date <u>14 Jan</u> 19 <u>91</u>	

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 Co Name Date December 13, 1999
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address RA 90-202 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Fluor Daniel Name Type Code Symbol Stamp N/A
Daniel Bldg. Greenville, S.C. 29601 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 28, 29, 30, 31, 32 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 P3 583
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)
Swabber	Taylor	004	N/A	² A-RC-HSS-110	1989	Replaced	No
Swabber	Taylor	005	N/A	2-RC-HSS-110	1989	Replacement	No

7. Description of Work Replaced Swabber because of loss of fluid pressure
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
VT-3

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)

D. Remarks ASME Class 2-1¹⁴⁻²⁻⁹¹
 Applicable Manufacturer's Data Reports to be attached
Saubber was replaced before ROR package was approved. DR. 90-1426
addressed this discrepancy. All work was performed to code.

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 MA

Certificate of Authorization No. MA Expiration Date MA

Signed [Signature] Date Dec 13, 19 90
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 CO of Hartford CT have inspected the components described in this Owner's Report during the period 7 Sept 1990 to 23 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA S-5
Inspector's Signature National Board, State, Province, and Endorsements

Date 9 JAN 19 91

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 Co Name Date December 12, 1990
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address Repair Organization P.O. No., Job No., etc. RoR 90-203
3. Work Performed by Virginia Electric Power Co Name Type Code Symbol Stamp N/A
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System Safety Injection
5. (a) Applicable Construction Code B31.7 1969 Edition, W70 Addenda ZP, P1, P3, C, 15 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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>Pipe</u>	<u>Southwest Fab</u>	<u>N/A</u>	<u>N/A</u>	<u>2-ST-PP-None</u>	<u>1976</u>	<u>Repaired</u>	<u>No</u>

7. Description of Work Weld surface irregularities were mechanically removed to prep surface for UT exam
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
None

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 on 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 Repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp MA

Certificate of Authorization No. MA Expiration Date MA

Signed [Signature] Eng'd Date Dec 12, 1990, 19__

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of VIRGINIA and employed by H.S.B.T. & I. CO of WATERLOO CT have inspected the components described in this Owner's Report during the period 9 OCT 1990 to 24 OCT 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions UP 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 14 Dec 1990

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 Co Name Date November 28, 1990
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Minerva, VA 23117 Address RoR 90-209
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Co Name Type Code Symbol Stamp N/A
P.O. Box 402 Minerva, VA 23117 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Feedwater
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 78, 81, 82(A), 10 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 P3 5P3
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>Pipe</u>	<u>Southwest Fab</u>	<u>N/A</u>	<u>N/A</u>	<u>2FW-PP5D-15</u>	<u>976</u>	<u>Repaired</u>	<u>No</u>

7. Description of Work Removed 13 linear indications from pipe surface by mechanical grinding
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure None
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 Repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. NA Expiration Date N/A

Signed [Signature] Eng'r Date Nov 28, 19 90
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 Hartford Steam Boiler I & E Co of Hartford Ct have inspected the components described in this Owner's Report during the period 29 sept 1990 to 24 oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA558
Inspector's Signature National Board, State, Province, and Endorsements

Date 28 Nov 19 90

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 Co Name Date November 7, 1990
5000 Dominion Blvd, Glen Allen, VA 23141 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address R+R 90-210 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Name Type Code Symbol Stamp MA
P.O. Box 402 Mineral, VA 23117 Address Authorization No. MA
 Expiration Date MA
4. Identification of System Safety Injection
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 83 583
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)
"A" Accumulator Tank	Alfa Southern	41370-71-1	2822	2-SI-TK-1A	1971	Repaired	Yes

7. Description of Work Removed linear indication from weld #5
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
None

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 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 [Signature] Engn Date November 7, 19 90
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 Northen Steam Boilers of Northen CT have inspected the components described in this Owner's Report during the period 13 Oct 1990 to 23 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VBTS
Inspector's Signature National Board, State, Province, and Endorsements

Date 8 Nov 19 90

Form 1-67 (Rev. 1-67) ALTERNATE FORM FOR SHOP INSPECTION REPORT FOR PRESSURE VESSELS ONLY Page 18 of 135
S/O 41970 Alternate Form for Shop Inspection Completely Shop-Fabricated Vessels Only
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 YGB-215

1. Manufactured by DELTA SOUTHERN CO., BATON ROUGE, LOUISIANA 41370-71-1
(Name and address of Manufacturer)
Manufactured for WESTINGHOUSE ELECTRIC CORP. 2-SI-TK-1A
(Name and address of Purchaser)
Type Vert. Vessel No. 41370-71-1 (State & State No.)
Natl. Bd. No. 2822 Yr. Built 1971

4. SHELL: Mat. SA-264* T.S. 70,000 Nom. 2-3/4 Cris. Thk. 0 In. Allow. 0 In. Dia. 11 Ft. 5 O.D. In. Length 9 Ft. 1-7/8 In.

5. SEAMS: Long Dbl. Butt. H.T. Yes R.T. Complete Sectioned No Efficiency 100 %
(Welded, Dbl. Single, Lap, Butt) (Yr. or Top) (Spot or Gun) (Yes or No)
Girth Dbl. Butt. H.T. Yes R.T. Complete Sectioned No No. of Courses 1

IF FIVE FEET OR
LESS IN LENGTH,
SEAMS FULLY UNDER
REINSPECTION.

6. Heads: (a) Material SA-264* T.S. 70,000 (b) Material SA-264* T.S. 70,000

Location (Top, Bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flange Diameter	Side to Pressure (Convex or Concave)
(a) Top	1.41"	-	-	-	-	66.92" I.D.	-	Concave
(b) Bottom	1.41"	-	-	-	-	66.92" I.D.	-	Concave

If removable, bolts used _____ Other fastening _____
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

7. Constructed for max. allowable working press. 1062 psi at max. temp. 300 °F. Min. temp. (when less than -20°) _____ °F. Test Press. 1062 psi.
Type of Test: Hydrostatic Pneumatic or Combination

8. SAFETY OR RELIEF VALVE OUTLETS: Number _____ Size _____ Location In Line

9. NOZZLES:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Nozzle	2	1"	Coupling	SA-182-T-304	2000#	None	Welded
Nozzle	1	3"	Stub End	"	.216"	"	"
Nozzle	1	12"	"	SA-312-T-316	Sch. 40	"	"
Nozzle	4	2"	Coupling	SA-182-T-304	2000#	"	"
Nozzle	1	3/4"	"	"	"	"	"

10. INSPECTION OPENINGS: Manholes, No. 1 Size 18" Location In Shell Ring
Handholes, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

11. SUPPORTS: Skirt Yes Lugs _____ Legs _____ Other _____ Attached Welded to Bottom Head
(Yes or No) (Number) (Number) (Describe) (Where & How)

12. REMARKS: ITEM NO. VGBSTAT-1 P.O. NO. 54-I-S4950-B ACCUMULATOR TANK
*Shell & Heads - SA-516-Cr. 70-PVQ S-1 w/5/32" Min. Thk. SA-240-Type 304 Cladding
**700 psig. Int. & 60 psig. Ext.

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc.—State Contents.)
* If painted heat-treated.
* List other internal or external pressures with coincident temperature when applicable.

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

Date May 24, 1971 Signed DELTA SOUTHERN COMPANY By P. B. [Signature]
(Manufacturer)

Certificate of Authorization Expires DECEMBER 31, 1974

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY DELTA SOUTHERN CO. at BATON ROUGE, LOUISIANA

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province LOUISIANA and employed by HARTFORD STEAM BOILER INSP. INS. CO. or HARTFORD, CONN. have inspected the pressure vessel described in this manufacturer's data report on May 24, 1971 and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date May 24, 1971

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YGB-215

41370-71-1

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41370-71-1

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ELECT. CO.

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

1. Owner Virginia Electric & Power Co Name Date December 10, 1990
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address R&R 90-215
 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Name Type Code Symbol Stamp N/A
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System Residual Coolant
5. (a) Applicable Construction Code B 31.7 19 69 Edition, W 70 Addenda 70, 81, 83 (A), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
6. Identification of Components Required 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>Valve</u>	<u>Virginia Power</u>	<u>N/A</u>	<u>N/A</u>	<u>2-RG-19</u>	<u>1990</u>	<u>Replacement (Modification)</u>	<u>No</u>

7. Description of Work Installed cap on Valve because of diaphragm leakage
8. Tests Conducted: * Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 2200 psi Test Temp. 547 °F
 * TEST PRESSURE 5400 PSIG; TEST TEMP. AMBIENT

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 Installed cap on Kerotest valve.
Applicable Manufacturer's Data Reports to be attached
Valve was manufactured by Virginia Power.

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 [Signature] Eng'r Date Dec 10 19 90
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. CO of Hartwood CT have inspected the components described in this Owner's Report during the period 25 Oct 1990 to 1 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NA558
Inspector's Signature National Board, State, Province, and Endorsements

Date 31 Dec 19 90

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 Co Date December 10, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 RA 90-216
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Co Type Code Symbol Stamp MP
Name Authorization No. N/A
P.O. Box 402 Mineral, VA 23117 Expiration Date N/A
Address
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 78, 81, 83(A), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 P3 583
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)
Valve	Virginia Power	N/A	N/A	2-RC-52	1990	Replacement (Modification)	No

7. Description of Work Installed cap on valve because of diaphragm leakage
8. Tests Conducted: * Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 3280 psi Test Temp. 547 °F
 * TEST PRESSURE 5400 psi ; TEST TEMPERATURE AIR/RT

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 Installed cap on Keatost valve. Cap
Applicable Manufacturer's Data Reports to be attached
was manufactured by Virginia Power

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 MT

Certificate of Authorization No. MT Expiration Date MT

Signed [Signature] Eng'r Date Dec 10 19 90
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 CO of Wentworth ct have inspected the components described in this Owner's Report during the period 8 OCT 1990 to 1 NOV 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA STX
Inspector's Signature National Board, State, Province, and Endorsements

Date 27 Dec 19 90

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 Co Date November 7, 1990
Name
5000 Dominion Blvd Glen Allen VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Address R&R 90-222 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp M/A
Name
P.O. Box 402 Mineral, VA 23117 Address Authorization No. M/A
Expiration Date M/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 78, 81, 82, 115 Code Case
(b) Applicable Edition of Section XI: Utilized for Repairs or Replacements 19 83 583

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>Pipe</u>	<u>Southwest Fab</u>	<u>0294</u>	<u>M/A</u>	<u>2-RC-MA-None</u>	<u>1974</u>	<u>Repaired</u>	<u>No</u>

7. Description of Work Removed weld spatter from welded joint 25BC as shown on Westinghouse drawing VGB-1-4360
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
None

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

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 [Signature] Eng'r Date November 7, 19 90
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 Hatfield Steam Boiler I & E Co of Hatfield CT have inspected the components described in this Owner's Report during the period 17 Oct 1990 to Nov 7 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA575
Inspector's Signature National Board, State, Province, and Endorsements

Date 3 Nov 19 90

APPENDIX C

FORM NP-1: DATA REPORT FOR NUCLEAR PIPING
(As Required by the Provisions of the USAS B31.7 Code Rules)
SOUTHWEST FABRICATING & WELDING CO., INC.

1. Manufactured by HOUSTON, TEXAS Order No. 9222-VOB
(Name and Address of Fabricator)
Westinghouse Nuclear Energy Systems,
2. Manufactured for Pittsburgh, Penn. Order No. 5-1-64V11
(Name and Address)

3. Owner Virginia Electric & Power Co. 4. Location Mineral, Virginia

5. Piping System Identification RC Piping Cold Legs, Ser. No. 0296
(a) Shop Drawing No. 9222VOB-15 Prepared by Southwest Fab. & Weld. Co., Inc.

6. Design Conditions of Piping psi °F Specified by
(Pressure) (Temperature) (Name of Co. & Dept.)

7. The Design Complies with USAS B31.7 Chapter II, Class II B31.7B (1971 Addenda)
License Code

(a) Design Information on file as N/A
(b) Design Specification certified by Howard H. Jenkins Penn. PE-004273E
Prof. Engr. State Reg. No.
(c) Stress Analysis Report on file as N/A
(d) Stress Analysis Report certified by N/A
Prof. Engr. State Reg. No.

8. The Materials comply with USAS B31.7, Chapter I-III Chapter 2-III; Chapter 3-III (circle one)
Mark No. L.P.S. Manufacturer Material Manufacturer

(a) Piping
1. VOB-loop-3-7 27 1/2" ID U.S. Pipe & Foundry Co. N/A
2. Diace 27 1/2" ID Sandusky Foundry & Mech. Co. N/A
3.
4.

(b) Fittings
1. Diace 27 1/2" ID 35°-23'-26" Ell Mitsubishi Steel Mfg. Co. N/A
2. Diace 12" S/W Boss, on 27 1/2" ID Hdr. SFWCO N/A
3. Diace 12" Thermal Sleeve SFWCO N/A
4. Diace 4" S/W Boss, on 27 1/2" ID Hdr. SFWCO N/A (Cont'd.)

(c) Flanges
1.
2.

(d) Special Components
1.
2.
3.
4.

9. The Fabrication and Inspection complies with USAS B31.7, Chapters I-V and I-VI 3-V and 2-VI;
3-V and 5-VI (circle one)

(a) Number of spool pieces 1 Number of Butt Welds 2
(b) Shop Hydrostatic Test None psi
(c) Certificate of Authorization No. 622

We certify the correctness of items Nos. 8 and 9 in this data report to be correct.
Date 5-15-76 Signed Southwest Fab. & Weld. Co. by Danny A. Dill
(Fabricator) (Q. C. Representative)

* Item 8 (b) Cont'd.
Diace 4" S/160 Moss, on 27 1/2" ID Hdr. Alloy Fittings Corp. N/A
Diace 4" Pressurizer Spray Scoop SFWCO N/A
Diace 2" on 27 1/2" S/W Boss (S/160 Boss) Ketting Products Corp. N/A
Diace 3/4" 6000# S/W Half Coupling Ketting Products Corp. N/A

USA Standard B31.7, Nuclear Power Piping

FORM NP-1 (cont.)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Texas and employed by Hartford, Connecticut have inspected the piping described in this data report on 5-13-74 and state that to the best of my knowledge and belief, the manufacturer has constructed this piping in accordance with the applicable sections of the USAS B31.7 Code for Nuclear Power Piping.

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

Date 5-13-74 1974

R.D. Golden Commissions Texas 18
(Name and No.)

18. Description of Field Erection and Inspection

(a)	Mark No.	I.P.S.	Number of Spool Pieces	Number of Butt Welds
1.				
2.				
3.				
4.				

(b) Field Hydrostatic Test _____ psi
(c) Certificate of Authorization No. _____

We certify that the field erection and inspection as described above complies with USAS B31.7, Chapters 1-V and 1-VI; 2-V and 2-VI; 3-V and 3-VI. (circle one)

Date _____ Signed _____ By GG 20/74
(Inspector) *(Q. C. Representative)*

Our Certificate of Authorization expires _____

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of _____ and employed by _____ of _____ have compared the statements in this data report with the described piping and state that the parts referred to as data items _____ are included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief, the manufacturer and/or assembler has constructed and assembled this piping in accordance with the applicable sections of the USAS B31.7 Code for Nuclear Power Piping. The described piping was inspected and subjected to a hydrostatic test of _____ psi.

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

Date _____ 19 _____

(Inspector) Commissions _____ *(Name and No.)*

00038501471

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 Co Date May 25, 1990
Name
5000 Dominion Blvd Address Glen Allen, VA 23060 Sheet 1 of 1
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Address Mineral, VA 23117 Adm 9.9. ReR 90-005 Out Pgm 90-0001
Repair Organization P.O. No., Job No., etc. 102322
3. Work Performed by Virginia Electric & Power Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Address Mineral, VA 23117 Expiration Date N/A
4. Identification of System Recirculation Spray
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda, ZP, P1CR, 110 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 SP3

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)
Bellows	Pathway Bellows	C-1-4291- 42-4091	N/A	2-RS-MEJ-1A	78	Replaced	No
Bellows	Pathway Bellows	42-4928	N/A	2-RS-MEJ-1A	90	Replacement	No
Bellows	---	---	N/A	2-RS-MEJ-1A	N/A	Replace Study Nuts	No
Bellows	---	---	N/A	2-RS-MEJ-1A	N/A	Replacement Study Nuts	No

7. Description of Work Replaced Expansion Joint and Studs and Nuts
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 165 psig Test Temp. See Utility Log

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
Replaced 24 7/8" x 9 x 5" studs ASTM A-193 GR B7
48 7/8" x 9 nuts ASME SA-194 GR 2H

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 [Signature] Eng'r. Date May 25, 19 90
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 HARTFORD STEAM BOILER E & CO. of HARTFORD CT have inspected the components described in this Owner's Report during the period 1-12-90 to 1-13-90, 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.

William E. White Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements
Date 25 May, 19 90

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT
A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Manufactured and certified by PATHWAY BELLOWS, INC. 115 FRANKLIN RD. OAK RIDGE, TN 37830
(Name and address of manufacturer)

Manufactured for VIRGINIA ELECTRIC & POWER CO. NORTH ANNA 1&2 PO BOX 402 MINERAL VA 23117
(Name and address of purchaser)

Location of installation VIRGINIA ELECTRIC & POWER CO. NORTH ANNA POWER STATION
(Name and address)

Type Unknown U2-4927 --- B-1-3568 Rev. A --- 1990
(Mark or cert. code) (Mfg. Code No. of Part) (CAN) (Drawing No.) (Part No.) (Year built)

The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE.
The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1986
(Year)

1988 1177-9 None
(Approval Date) (Code Case No.) (Special service per UG 120(d))

(a) Drawing prepared by PATHWAY BELLOWS, INC. (b) Description of part inspected 10" NOM. DIA. EXPANSION TOI

Postweld heat treatment: Temp. N/A °F Time N/A

ns 8-13 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

Shell: Mat. (Spec. No., Grade) Thick. (in.) Corr. Allow. (in.) Diag. I.D. (ft & in.) Length (overall) (ft & in.)

Seams: Long. (Wld. Dbl. Sng., Lap, Buttl) R.T. (Spot or Full) EM (%) H.T. Temp. (°F) Time Grain (Wld. Dbl. Sng., Lap, Buttl) R.T. (Spot, Partial, or Full) No. of Courses

Heads: (a) Mat. (Spec. No., Grade) (b) Mat. (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Concave or Convex)

If removable, bolts used (describe other fastenings) (Mat. Spec. No., Gr., Size, No.)

Type of Jacket Proof Test

Jacket Closure (Describe all laps & weld, but, etc.) If bar, give dimensions

If bolted, describe or sketch

MAWP psi at max. temp. °F. Min. design metal temp. °F at psi.

Hydro., pneu., or comb. test press. psi.

ns 14 and 15 to be completed for tube sections

Tubesheets: Stationary Mat. (Spec. No., Gr.) Diag. (in.) (Subject to pressure) Thick. (in.) Corr. Allow. (in.) Attach. (Wld. Buttl)

Floating Mat. (Spec. No., Gr.) Diag. (in.) Thick. (in.) Corr. Allow. (in.) Attach. (Wld. Buttl)

Tubes: Mat. (Spec. No., Grade) O.D. (in.) Thick. (in. or gauge) No. Type (straight or U)

ns 16-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

Shell: Mat. (Spec. No., Gr.) Thick. (in.) Corr. Allow. (in.) Diag. I.D. (ft & in.) Length (overall) (ft & in.)

Seams: Long. (Wld. Dbl. Sng., Lap, Buttl) R.T. (Spot or Full) EM (%) H.T. Temp. (°F) Time Grain (Wld. Dbl. Sng., Lap, Buttl) R.T. (Spot, Partial, or Full) No. of Courses

Heads: (a) Mat. (Spec. No., Grade) (b) Mat. (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Concave or Convex)

If removable, bolts used (describe other fastenings) (Mat. Spec. No., Grade, Size, No.)

Form U-2 (Back)

Items below to be completed for all vessels where applicable

19. M&W 180 psia max temp 260 °F Min. design metal temp -20 °F at 180 psi
 Hydro. pneu. or comb. test press. 270 psi.

20. Nozzles, Inspection and Safety Valve Openings

Nozzles (Incl. Drain, Drain Pipe)	No.	Dim. or Size	Type	Matl.	Nom. Thk.	Reinforcement Metl.	How Attached	Location

21. Supports: Skirt (Type or No.) Lugs (No.) Legs (No.) Other (Describe) Attached (What and how)

22. Remarks: THIS UNIT WAS HYDRO TESTED AT 270 PSIG AT AMBIENT TEMPERATURE.

**IMPACT TEST EXEMPTION PER UHA-51 AND UG20(F).

SEE MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET FOR U2-4927.

PATHWAY BELLOWS, INC. IS RESPONSIBLE FOR THE DESIGN OF THESE UNITS.

*INSPECTION OF THE BELLOWS ELEMENT COVERS MATERIALS AND WORKMANSHIP ONLY.
CODE CASE 1177-9

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. SEE REMARKS*

"U" Certificate of Authorization No. 13,548 expires SEPTEMBER 8, 1991
 Date 1-12-90 Co. name PATHWAY BELLOWS, INC. Signed Thomas R. Hoyle
(Manufacturer) (Inspector)

CERTIFICATE OF SHOP INSPECTION SEE REMARKS*

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of TENNESSEE and employed by H.S.B.I. & I. CO.
 of HARTFORD, CT. have inspected the pressure vessel described in this Manufacturer's Partial Data Report on JANUARY 12,
 1990, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a job or any other connection with this inspection.
 Date JANUARY 12, 1990 Signed Thomas R. Hoyle Commission TN-2673, VA-461
(Authorized Inspector) (National Board (incl. endorsements), State, Prov. and No.)

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT
A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by PATHWAY BELLOWS, INC. 115 FRANKLIN RD. OAK RIDGE, TN 37830
(Name and address of manufacturer)

2. Manufactured for VIRGINIA ELECTRIC & POWER CO. NORTH ANNA 162 PO BOX 402 MINERAL VA 23117
(Name and address of purchaser)

3. Location of installation VIRGINIA ELECTRIC & POWER CO. NORTH ANNA POWER STATION
(Name and address)

4. Type Unknown U2-4928 --- B-1-3568 Rev. A --- 1988
(Type or ref. code) (Mfg. design No. or Part) (CRN) (Drawing No.) (Mat. Id. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE
The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1986
1988 1177-9 None
Address (Dist.) Code Cont. No. Special welds per UG-120(d)

6. (a) Drawing prepared by PATHWAY BELLOWS, INC. (b) Description of part inspected 10" NOM. DIA. EXPANSION JOINT

7. Postweld heat treatment: Temp. N/A °F Time N/A

Items 8-13 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

8. Shell: --- --- --- --- ---
Mat. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft & in.) Length (overall) (ft & in.)

9. Seams: --- --- --- --- --- --- --- ---
Long. (Weld, Dbl., Sng., Lap, Butt) R.T. (Spot or Full) E.H. (%) H.T. Temp. (°F) Type Girth (Weld, Dbl., Sng., Lap, Butt) R.T. (Spot, Partial or Full) No. of Courses

10. Heads: (a) Mat. --- (Spec. No., Grade) (b) Mat. --- (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Concave or Convex)
(a)									
(b)									

If removable, bolts used (describe other fastenings) ---
(Mat. Spec. No., Gr., Size No.)

11. Type of Jacket --- Proof Test

12. Jacket Closure --- --- --- --- ---
(Describe as open & weld, bar, etc.) If bar, give dimensions

If bolted, describe or sketch.

13. MAWP --- psi at max. temp. --- °F. Min. design metal temp. --- °F at --- psi.
Hydro., pneu., or comb. test press. --- psi.

Items 14 and 15 to be completed for tube sections

14. Tubesheets:
 Secondary Mat. (Spec. No., Gr.) --- --- --- --- ---
Diagn. (in.) (Subject to stresses) Nom. Thk. (in.) Corr. Allow. (in.) Attach. (Weld, Bolted)
 Flanging Mat. (Spec. No., Gr.) --- --- --- --- ---
Diagn. (in.) Nom. Thk. (in.) Corr. Allow. (in.) Attach.

15. Tubes: --- --- --- --- --- ---
Mat. (Spec. No., Grade) O.D. (in.) Nom. Thk. (in. or gauge) No. Type (straight or U)

Items 16-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

16. Shell: --- --- --- --- ---
Mat. (Spec. No., Gr.) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft & in.) Length (overall) (ft & in.)

17. Seams: --- --- --- --- --- --- --- ---
Long. (Weld, Dbl., Sng., Lap, Butt) R.T. (Spot or Full) E.H. (%) H.T. Temp. (°F) Type Girth (Weld, Dbl., Sng., Lap, Butt) R.T. (Spot, Partial or Full) No. of Courses

18. Heads: (a) Mat. --- (Spec. No., Grade) (b) Mat. --- (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Concave or Convex)
(a)									
(b)									

If removable, bolts used (describe other fastenings) ---
(Mat. Spec. No., Grade, Size No.)

Items below to be completed for all vessels where applicable

19. MAWP 180 psig at max temp 250 °F Min. design metal temp -20 °F
Hydro. pres., or comp. test press. 270 psi

20. Nozzles, Inspection and Safety Valve Openings:

Process (Dist. Dept. or ID No.)	No.	Dist. or Size	Type	Mater.	Nom. Thk.	Reinforcement Met.	How Attached	Location

21. Supports: Skirt (Type or No.) Lugs (No.) Legs (No.) Other (Describe) Attached (Where and How)

22. Remarks: THIS UNIT WAS HYDRO TESTED AT 270 PSIG AT AMBIENT TEMPERATURE.
**IMPACT TEST EXEMPTION PER UHA-51 AND UG20(F).
SEE MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET FOR U2-4928.
PATHWAY BELLOW, INC. IS RESPONSIBLE FOR THE DESIGN OF THESE UNITS.
*INSPECTION OF THE BELLOW ELEMENT COVERS MATERIALS AND WORKMANSHIP ONLY.
CODE CASE 1177-9

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. SEE REMARKS*
"U" Certificate of Authorization No. 13,548 expires SEPTEMBER 8, 1991
Date 1-12-90 Co. name PATHWAY BELLOW, INC. Signed Thomas Sket (Manufacturer) (Inspector)

CERTIFICATE OF SHOP INSPECTION SEE REMARKS*

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of TENNESSEE and employed by H.S.B.I. & I. CO. of HARTFORD, CT. have inspected the pressure vessel described in this Manufacturer's Partial Data Report on JANUARY 12, 1990, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date JANUARY 12, 1990 Signed [Signature] Commissions TN-2633 VA-461 (Inspector) (National Board (incl. endorsements), State, Prov. and No.)

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT
A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by PATHWAY BELLOWS, INC. 115 FRANKLIN RD. OAK RIDGE, TN 37830
(Name and address of manufacturer)

2. Manufactured for VIRGINIA ELECTRIC & POWER CO. NORTH ANNA 162 PO BOX 402 MINERAL VA 23117
(Name and address of purchaser)

3. Location of installation VIRGINIA ELECTRIC & POWER CO. NORTH ANNA POWER STATION
(Name and address)

4. Type Unknown U2-4929 --- B-1-3568 Rev. A --- 193
(Name or part, class) (Mfg. or part No. of Part) (CRN) (Drawing No.) (Part. No. No.) (Fig. No.)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1, 1986
(Year)

1988 1177-9 None
(Annular Dims) Code Case No. Special permits per UG-120(a)

6. (a) Drawing prepared by PATHWAY BELLOWS, INC. (b) Description of part inspected 10" NOM. DIA. EXPANSION J

7. Postweld heat treatment: Temp. N/A °F Time N/A

Items 8-13 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

8. Shell: --- --- --- --- ---
(Mat. (Spec. No., Grade)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (in. & in.)) (Length (overall) (ft. & in.))

9. Seams: --- --- --- --- --- --- --- --- ---
(Long. (Weld. Dbl., Sing., Lap, Butt)) (R.T. (Spec. or Full)) (E.R. (in.)) (H.T. Temp. (°F)) (Time) (Circ. (Weld. Dbl., Sing., Lap, Butt)) (R.T. (Spec. Partial, or Full)) (No. of Conv.)

10. Heads: (a) Matl. --- (b) Matl. ---
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)									
(b)									

If removable, bolts used (describe other fastenings) ---
(Matl., Spec. No., Gr., Size No.)

11. Type of Jacket --- Proof Test ---

12. Jacket Closure --- If bar, give dimensions ---
(Describe closure & weld, bar, etc.)

If bolted, describe or sketch.

13. MAWP --- psi at max. temp. --- °F. Min. design metal temp. --- °F at --- psi.
Hydro., pneu., or comb. test press. --- psi.

Items 14 and 15 to be completed for tube sections

14. Tubesheets: --- --- --- --- ---
(Stationary Matl. (Spec. No., Gr.)) (Diam. (in.)) (Subject to pressure) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Attach. (Weld, Bolted))

--- --- --- --- ---
(Floating Matl. (Spec. No., Gr.)) (Diam. (in.)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Attach.)

15. Tubes: --- --- --- --- ---
(Matl. (Spec. No., Grade)) (O.D. (in.)) (Nom. Thk. (in. or gauge)) (No.) (Type (straight or U))

Items 16-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

16. Shell: --- --- --- --- ---
(Matl. (Spec. No., Gr.)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (in. & in.)) (Length (overall) (ft. & in.))

17. Seams: --- --- --- --- --- --- --- --- ---
(Long. (Weld. Dbl., Sing., Lap, Butt)) (R.T. (Spec. or Full)) (E.R. (in.)) (H.T. Temp. (°F)) (Time) (Circ. (Weld. Dbl., Sing., Lap, Butt)) (R.T. (Spec. Partial, or Full)) (No. of Conv.)

18. Heads: (a) Matl. --- (b) Matl. ---
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)									
(b)									

If removable, bolts used (describe other fastenings) ---
(Matl., Spec. No., Grade, Size No.)

Items below to be completed for all vessels where applicable

19. MAWP 180 psi at max. temp 260 °F. Min. design metal temp -20 °F. 3'
HYDRO, PNEU., or comb. test press 270 psi

20. Nozzles, Inspection and Safety Valve Openings

Nozzles (Inlet, Outlet, Drain, etc.)	No.	Dim. or Size	Type	Matl.	Nom. Thk.	Reinforcement Add.	How Attached	Location

21. Supports: Skirt _____ Lugs _____ Legs _____ Other _____ Attached _____
(Type or no.) (No.) (No.) (Describe) (Where and how)

22. Remarks: THIS UNIT WAS HYDRO TESTED AT 270 PSIG AT AMBIENT TEMPERATURE.
**IMPACT TEST EXEMPTION PER UHA-51 AND UG20(F).
SEE MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET FOR U2-4929.
PATHWAY BELLOWS, INC. IS RESPONSIBLE FOR THE DESIGN OF THESE UNITS.
*INSPECTION OF THE BELLOWS ELEMENT COVERS MATERIALS AND WORKMANSHIP ONLY.
CODE CASE 1177-9

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. SEE REMARKS*

"U" Certificate of Authorization No. 13,548 expires SEPTEMBER 8, 19 91
Date 1-12-90 Co. name PATHWAY BELLOWS, INC. Signed Thomas R. Hester
(Manufacturer) (Inspector)

CERTIFICATE OF SHOP INSPECTION SEE REMARKS*

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of TENNESSEE and employed by H.S.P.I. & I. CO.

of HARTFORD, CT. have inspected the pressure vessel described in this Manufacturer's Partial Data Report on JANUARY 12, 19 90 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date JANUARY 12, 1990 Signed [Signature] Commissions TN-2633, VA-461
(Inspector) (Inspector)

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 Co Name Date May 23, 1990
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant Norfolk Anna Power Station Name Unit 2
P.O. Box 402 Mineral VA 23117 Address Adm 99 R.R. 90-006 Box 402 Mineral VA 23117
 Repair Organization P.O. No., Job No., etc. WR 102450
3. Work Performed by Virginia Electric & Power Co Name Type Code Symbol Stamp N/A
P.O. Box 402 Mineral VA 23117 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System Recirculation Spray
5. (a) Applicable Construction Code A 31.7 19 69 Edition, 70 Addenda 70, 81(R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
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)
Bellows	Pathway Bellows	C-1-4291-42 4091	N/A	2-RS-MEJ-10	78	Repaired	No
Bellows	Pathway Bellows	42-4927	N/A	2-RS-MEJ-10	90	Replacement Replaced	No
Bellows	—	—	N/A	2-RS-MEJ-10	N/A	Studs & Nuts Replacement	No
Bellows	—	—	N/A	2-RS-MEJ-10	N/A	Studs & Nuts	No

7. Description of Work Replaced Expanded Bellows and Studs and Nuts
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 175.5 psig Test Temp. Non-Oper. °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
24 7/8" x 9 x 5" studs ASTM A-193 B7
48 7/8" x 9 nuts ASME SA 194 GR. 2H
U-2 Form 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 [Signature] Engr Date May 23 10 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 Weatherford Steam Boiler Inspection + Ins CO of Weatherford CT have inspected the components described in this Owner's Report during the period 15 JAN 1990 to 17 JAN 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements
Date 14 June 19 90

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT
A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Manufactured and certified by PATHWAY BELLOWS, INC. 115 FRANKLIN RD. OAK RIDGE, TN 37830
(Name and address of manufacturer)

Manufactured for VIRGINIA ELECTRIC & POWER CO. NORTH ANNA 1&2 PO BOX 402 MINERAL VA 23117
(Name and address of purchaser)

Location of installation VIRGINIA ELECTRIC & POWER CO. NORTH ANNA POWER STATION
(Name and address)

Type Unknown U2-4927 --- B-1-3568 Rev. A --- 1990
(Mark or ref. link) (Mfg. serial No. of Part) (CRN) (Drawing No.) (Part. Ser. No.) (Year built)

The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE
The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1986
Year

1988 1177-9 None
Asst. Code (Date) Code Case No. Special service per UG-120(d)

(a) Drawing prepared by PATHWAY BELLOWS, INC. (b) Description of part inspected 10" NOM. DIA. EXPANSION JOINT
Postweld heat treatment: Temp. N/A °F Time N/A

ns 8-13 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

Shell: Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft & in.) Length (overall) (ft & in.)

Seams: Long. (Weld, Dbl., Sing., Lap, Butt) R.T. (Spot or Full) EN. (%) H.T. Temp. (°F) Time Girth (Weld, Dbl., Sing., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

Heads: (a) Matl. (Spec. No., Grade) (b) Matl. (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)

If removable, bolts used (describe other fastenings) (Matl., Spec. No., Gr., Size, No.)

Type of Jacket Proof Test

Jacket Closure (Describe as open & weld, bar, etc.) if bar, give dimensions

If bolted, describe or sketch.

MAWP psi at max. temp. °F Min. design metal temp. °F at psi

Hydro., pneu., or comb. test press. psi

ns 14 and 15 to be completed for tube sections

Tube sheets: Stationary Matl. (Spec. No., Gr.) Diam. (in.) (Subject to pressure) Nom. Thk. (in.) Corr. Allow. (in.) Attach. (Weld, Bolted)

Floating Matl. (Spec. No., Gr.) Diam. (in.) Nom. Thk. (in.) Corr. Allow. (in.) Attach.

Tubes: Matl. (Spec. No., Grade) O.D. (in.) Nom. Thk. (in. or gauge) Dia. Type (straight or U)

ns 16-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

Shell: Matl. (Spec. No., Gr.) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft & in.) Length (overall) (ft & in.)

Seams: Long. (Weld, Dbl., Sing., Lap, Butt) R.T. (Spot or Full) EN. (%) H.T. Temp. (°F) Time Girth (Weld, Dbl., Sing., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

Heads: (a) Matl. (Spec. No., Grade) (b) Matl. (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)

If removable, bolts used (describe other fastenings) (Matl., Spec. No., Gr., Size, No.)

Items below to be completed for all vessels where applicable

19. MAWP 180 psi at max. temp. 260 °F. Min. design metal temp. -20 °F at 180 psi.
Hydro., pneu., or comb. test press. 270 psi.

20. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Matt.	Nom. Thk.	Reinforcement Met.	How Attached	Location

21. Supports: Skirt Lugs Legs Other Attached
(Y or N) (No.) (No.) (Describe) (Where not how)

22. Remarks: THIS UNIT WAS HYDRO TESTED AT 270 PSIG AT AMBIENT TEMPERATURE.
**IMPACT TEST EXEMPTION PER UHA-51 AND UG20(F).
SEE MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET FOR U2-4927.
PATHWAY BELLOWS, INC. IS RESPONSIBLE FOR THE DESIGN OF THESE UNITS.
*INSPECTION OF THE BELLOWS ELEMENT COVERS MATERIALS AND WORKMANSHIP ONLY.
CODE CASE 1177-9

CERTIFICATE OF SHOP COMPLIANCE
We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. SEE REMARKS*
"U" Certificate of Authorization No. 13,548 expires SEPTEMBER 8, 19 91
Date 1-12-90 Co. name PATHWAY BELLOWS, INC. Signed Thomas R. Harte
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION SEE REMARKS*
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of TENNESSEE and employed by H.S.B.I.&I. CO.
of HARTFORD, CT. have inspected the pressure vessel described in this Manufacturer's Partial Data Report on JANUARY 12,
19 90, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a job or loss of work or any other loss arising from or connected with this inspection.
Date JANUARY 12, 1990 Signed C. E. McLaughlin Commissions TN-2673, VA-461
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)

PATHWAY



MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET

Manufactured and
Certified by PATHWAY BELLOWS, INC., 115 FRANKLIN RD., OAK RIDGE, TN 37830

Manufactured for VIRGINIA ELECTRIC & POWER CO., NORTH ANNA RD., PO BOX 402 MINERAL VA 23117

<u>U2-4927</u> Mfg. Serial No.	<u>B-1-3568 Rev. A</u> Drawing	<u>----</u> Nat'l Bd. No.	<u>1990</u> Year Built		
<u>SHELL</u>	<u>MATERIAL</u>	<u>ALLOW. STRESS</u>	<u>NOM. THK.</u>	<u>DIA.</u>	<u>LENGTH</u>
<u>BELLOWS (2)</u>	<u>SA240-T304</u>	<u>17,080</u>	<u>.037"</u>	<u>10.750"</u>	<u>20.625"</u>
<u>FLANGE (2)</u>	<u>SA182-F304L</u>	<u>14,680</u>	<u>N/A</u>	<u>10.750"</u>	<u>1.938"</u>
<u>LIMIT ROD LUG (8)</u>	<u>SA240-T304</u>	<u>17,080</u>	<u>1.000"</u>	<u>N/A</u>	<u>4.000"</u>
<u>LIMIT ROD (4)</u>	<u>SA36</u>	<u>12,700</u>	<u>N/A</u>	<u>1.000"</u>	<u>26.000"</u>
<u>SEAMS</u>	<u>LONG</u>	<u>HT</u>	<u>X-RAY</u>	<u>SECT</u>	<u>EFF</u>
<u>BELLOWS (2)</u>	<u>WLD SNGL BUTT</u>	<u>N/A</u>	<u>FULL</u>	<u>N/A</u>	<u>100%</u>
<u>FLANGE (2)</u>	<u>FILLET</u>	<u>N/A</u>	<u>NONE</u>	<u>N/A</u>	<u>70%</u>
<u>LIMIT ROD LUG (8)</u>	<u>WLD SNGL BUTT</u>	<u>N/A</u>	<u>NONE</u>	<u>N/A</u>	<u>70%</u>
<u>GIRTH</u>	<u>FILLET</u>	<u>N/A</u>	<u>NONE</u>	<u>N/A</u>	<u>No. of Courses 3</u>

Constructed for Maximum Allowable Working Press _____ PSI at Max. Temp. _____

Minimum Temp. _____

Remarks: _____

PATHWAY BELLOWS, INC. IS RESPONSIBLE FOR THE DESIGN OF THESE UNITS.

<u>1-12-90</u> Date	<u>PATHWAY BELLOWS, INC.</u> Manufacturer	<u>Thomas K. Ketchum</u> Signed
<u>1-12-90</u> Date	<u>C. E. McTeague</u> Auth. Insp. Signature	<u>TN-2633, VA-461</u> Commissions (Nat. Bd. State)

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 Co Date Oct 4, 1990
Name
5000 Dominion Blvd Glen Allen VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Address Bolt Program 90-8003 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp N/A
Name
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Safety Injection
5. (a) Applicable Construction Code B31.7 19 69 Edition W70 Addenda 79, 81, 83(A), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 52.9

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)
Flange	Southwest Fab	N/A	N/A	3" SI-652-153A-Q2	1976	Replaced Studs and Nuts	No
Flange	Southwest Fab	N/A	N/A	3" SI-652-153A-Q2	1976	Replacement Studs & Nuts	No

7. Description of Work Replaced Studs and Nuts
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F VT-2

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
4 5/8"-11x5" studs ASME SA193 GR7
8 5/8"-11 Nuts ASME SA194 GR2H

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 [Signature] Eng Date Oct 4, 1990
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 Hartford Steam Boiler Insp + Insv. of Hartford, CT. have inspected the components described in this Owner's Report during the period Oct 4, 1990 to Oct 9, 1990, 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 VA 424
Inspector's Signature National Board, State, Province, and Endorsers

Date Oct 9, 1990

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 Co Date Sept 19, 1990
Name
5000 Dominion Blvd. Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Bolting Program 90-B004
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Mineral, VA 23117 Expiration Date N/A
Address
4. Identification of System Charging
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 78, 81(A), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
HX Flange	Atlas Ind. Man. Co.	1307	N/A	2-CH-E-4	1972	Replaced studs & nuts	No
HX Flange	Atlas Ind. Man. Co.	1307	N/A	2-CH-E-4	1972	Replacement studs & nuts	No

7. Description of Work Replaced Flange Studs and Nuts
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
None

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)

B. Remarks ASME Class 2
Applicable Manufacturer's Data Reports to be attached
4 studs 7/8"-9 x 5" ASTM A 193 Gr B7
8 nuts 7/8"-9 ASME SA 194 Gr 2H

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

Code Symbol Stamp N/A

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

Signed [Signature] Engr Date Sept 19, 1990
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 Hartford Steam Boiler L & I Co of Hartford CT have inspected the components described in this Owner's Report during the period JAN 1, 1990 to FEB 2, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 19 Sept 1990

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 Co Date May 22, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Adm 9.9 Bulking Pym 90-3005 W.D. 103431
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp N/A
Name
P.O. Box 402 Mineral, VA 23117 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Chemical and Volume Control
5. (a) Applicable Construction Code B 31.7 19 69 Edition, W 70 Addenda 78, 81(R), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
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)
Flange	N/A	N/A	N/A	2-CH-FE-2122	N/A	Replaced studs & Nuts	No
Flange	N/A	N/A	N/A	2-CH-FE-2122	N/A	Replacement studs & Nuts	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 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
Replaced 8 1 1/2" x 8 x 8" studs, ASME SA 193 B7, and
16 1 1/2" x 8 nuts, ASME SA 194 GR 7, one at
a time. No pressure test required.

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 [Signature] Engr Date May 22 19 90
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 Heaterd Steam Boiler I & I CO. of Heaterd CT have inspected the components described in this Owner's Report during the period 2-1-90 to 5-24-90, 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 make any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Inspector's Signature Commissions VA558 National Board, State, Province, and Endorsements

Date 24 MAY 19 90

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 2-12-90
Name
5000 Dominion Blvd. Glen Allen, VA 23060 Address
Sheet 1 of 1

2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402, Mineral VA, 23117 Address
ADM 9.9 Bolting Program 90-B206 Repair Organization P.O. No., Job No., etc.

3. Work Performed by VA Power Type Code Symbol Stamp N/A
Name
P.O. Box 402, Mineral, VA 23117 Address
Authorization No. N/A
Expiration Date N/A

4. Identification of System Chemical Volume and Control

5. (a) Applicable Construction Code B31.7 19 83 Edition, W70 Addenda 78,8XR,1115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 3.23

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)
6" SUCTION FLANGE	-----	-----	NA	2-CH-P-1C	----	Replaced	NO
6" SUCTION FLANGE	-----	-----	NA	2-CH-P-1C	----	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 8 1/2 in. x 11 in., (2) information in items 1 through 8 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
2 - 3/4" x 5" x 10 Studs Applicable Manufacturer's Data Reports to be attached
16 - 3/4" x 10 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 P. J. Nantta, Staff Engineer Date 2-12 - 19 90
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 Hartford Steam Boiler I & I Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 2-5-90 to 2-9-90, 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.

William C. Under Commissions VA558
Inspector's Signature National Board, State, Province, and Endorsements

Date 14 Feb 19 90

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 Co Name 5000 Dominion Blvd, Glen Allen, VA 23060 Address
Date November 9, 1990
Sheet 1 of 1
2. Plant North Anna Power Station Name P.O. Box 402 Mineral, VA 23117 Address
Unit 2
Bolting Program 90-3019
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Co Name P.O. Box 402 Mineral, VA 23117 Address
Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A
4. Identification of System Safety Injection
5. (a) Applicable Construction Code B 31.7 19 69 Edition, W 70 Addenda 70, 71, 72, 73, 74 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
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)
Valve	Aloyce	N/A	N/A	2-SI-1	N/A	Replaced Studs & Nuts Replacement	No
Valve	Aloyce	N/A	N/A	2-SI-1	N/A	studs & Nuts	No

7. Description of Work Replaced Studs and Nuts due to Corrosion and Rust
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
16 3/4"-10x5" ASTM A193grB7 studs
32 3/4"-10 ASTM A194gr2H or ASME SA194gr2H 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 [Signature] Date November 9, 1990
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. CO. of Westford CT have inspected the components described in this Owner's Report during the period 28 Aug 1990 to 1 Sept 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA-558
Inspector's Signature National Board, State, Province, and Endorsements

Date 26 Nov 1990

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 Co Name Date November 9, 1990
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address Repair Organization P.O. No., Job No., etc. Bolting Program 90-B020
3. Work Performed by Virginia Electric & Power Co Name Type Code Symbol Stamp N/A
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Safety Injection
5. (a) Applicable Construction Code B31.7 19 69 Edition, W 70 Addenda 78, 81, 83(A), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 5 83

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)
Valve	Aloyco	N/A	N/A	2-SI-MOV-2860A	N/A	Replaced studs & nuts	No
Valve	Aloyco	N/A	N/A	2-SI-MOV-2860A	N/A	Replacement studs & nuts	No

7. Description of Work Replaced studs & nuts. Only 1 stud was replaced at a time and no UT-2 was required
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
None

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
20 3/4" - 10x7" ASME SA 193 GR B7 studs
40 3/4" - 10 ASME SA 194 GR 2H 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 [Signature] Engr Date November 9, 1990
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. + F. CO of Harrison CT have inspected the components described in this Owner's Report during the period 3 Sept 1990 to 4 Sept 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA STX
Inspector's Signature National Board, State, Province, and Endorsements

Date 15 Nov, 1990

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 Co Date November 28, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Minnrol, VA 23117 Address Bolting Program 90-B021 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Co Type Code Symbol Stamp N/A
Name
P.O. Box 402 Minnrol, VA 23117 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Safety Injection
5. (a) Applicable Construction Code B31.7 1969 Edition, W70 Addenda, 78, 81, 83, 84, 85 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 583
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>Valve</u>	<u>Velan</u>	<u>N/A</u>	<u>N/A</u>	<u>2-S-MUV-2836</u>	<u>N/A</u>	<u>Replaced</u> <u>Studs & Nuts</u>	<u>No</u>
<u>Valve</u>	<u>Velan</u>	<u>N/A</u>	<u>N/A</u>	<u>2-S-MUV-2836</u>	<u>N/A</u>	<u>Replaced</u> <u>Studs & Nuts</u>	<u>No</u>

7. Description of Work Replaced Studs & Nuts. Replaced studs were corroded
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
12 3/4" - 10 x 5" ASTM A193 gr B7 studs
12 3/4" x 10 ASTM A194 gr 2H nuts

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that 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 [Signature] Eng'r Date Nov 28 1990
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 CO of Charlottesville have inspected the components described in this Owner's Report during the period 3 SEPT 1990 to 29 OCTOBER 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 4 Dec 1990

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 Co. Date January 15, 1991
Name
5000 Dominion Blvd, Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402, Mineral, VA 23117 Belting Program 90-B022
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Westinghouse Electric Corp. Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 355, Pittsburgh, PA 15230 Expiration Date N/A
Address
4. Identification of System Reactor Coolant (RC)
5. (a) Applicable Construction Code B31.7 19 69 Edition, w/ 70 Addenda 78, 81, 83(P), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583 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)
Pump	ESCO	710	N/A	2-RC-P-1C	1972	Replaced Stud	No
Pump	ESCO	710	N/A	2-RC-P-1C	1972	Replacement Stud	No

7. Description of Work Replaced one (1) seal housing belt which was rejected by NDE due to a one (1) inch ~~linear~~ linear indication.
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, An N-2 Report does not exist for this pump.

Applicable Manufacturer's Data Reports to be attached

1 2"-8x8" ASME SA193, Gr. B7 Stud - Serial Number 9486

DR NI-91-61 was initiated due to a missed ANII Hold Point to witness UT calibration.

Final DR resolution will be implemented prior to the end of the next Unit #2 refueling outage. The containment walkdown UT-2 examination report (02-PT-46.21) does not specifically identify this component but it was included in that examination.

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 LEAD ISI ENGR. Date January 15 1991
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 CO. of Hatchers ct have inspected the components described in this Owner's Report during the period 11 Sept 1990 to 1 NOV 1990, 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.

William E. Weber Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 17 Jan 1991

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 Co Name Date December 13/1990
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address Bolting Program 90-B024 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Name Type Code Symbol Stamp N/A
P.O. Box 402 Mineral, VA 23117 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, W70 Addenda 70, 81, 83(A), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
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)
MOV	CRANE	N/A	N/A	2-GS-MOV-202A	N/A	Replaced studs & Nuts	No
MOV	CRANE	N/A	N/A	2-GS-MOV-202A	N/A	Replacement studs & Nuts	No

7. Description of Work Replaced Studs & Nuts for General Corrosion
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
10 1/2"-13 x 3 1/2" ASME SA 193 gr B7 studs
20 1/2"-13 ASTM A194 gr 2H 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 [Signature] Eng'r Date Dec 13 1990
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 WIRGINIA and employed by H. S. B. E & E. CO of HANDED CT have inspected the components described in this Owner's Report during the period 11 SEPT 1990 to 24 OCT 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions W 555
Inspector's Signature National Board, State, Province, and Endorsements

Date 18 Dec 1990

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 Co Date October 28, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Balking Program 90-B026
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Mineral, VA 23117 Expiration Date N/A
Address
4. Identification of System Quench Spray
5. (a) Applicable Construction Code B31.7 19 69 Edition, W 70 Addenda 20, 21, 23(A), 15 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
Valve	Grainwell	N/A	N/A	2-QS-28	1974	Replaced studs & Nuts	No
Valve	Grainwell	N/A	N/A	2-QS-28	1974	Replaced studs & Nuts	No

7. Description of Work Replaced studs & Nuts
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
V7-2

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
4 1/2" x 13 x 5" ASME SA193 GR7 or ASTM A193 GR7 studs
8 1/2" x 13 ASME SA194 GR 2.4 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 [Signature] Eng'r Date 10-28 19 90
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. R. I. AND S. Co. of HARTFORD, CT. have inspected the components described in this Owner's Report during the period SEPT. 17, 1990 to OCT. 28, 1990, 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.

Charles E. Metcalf Commissions VA-461, N.B.I.
Inspector's Signature National Board, State, Province, and Endorsements

Date NOVEMBER 5, 1990

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 Co Name
5000 Dominion Blvd Glen Allen VA 23060 Address
Date November 8, 1990
Sheet 1 of 1
2. Plant North Anna Power Station Name
P.O. Box 402 Mineral, VA 23117 Address
Unit 2
Bolting Program 90-B029
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Name
P.O. Box 402 Mineral, VA 23117 Address
Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A
4. Identification of System Charging
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 78, 81, 83(R), 105 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 583
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)
Valve	Valon	N/A	N/A	2-CH-358	N/A	Replaced Studs & Nuts	No
Valve	Valon	N/A	N/A	2-CH-358	N/A	Replacement Studs & Nuts	No

7. Description of Work Replaced Studs & Nuts, Gasket Leakage, Good Maintenance Notice
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)

D. Remarks ASME Class 1
Applicable Manufacturer's Data Reports to be attached
12 3/4"-10x5" ASTM A193grB7 studs
12 3/4"-10 ASME SA194gr2H or ASTM A194gr2H 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 [Signature] Eng'r Date November 8 1990
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. & I. Co of Hampton at at have inspected the components described in this Owner's Report during the period 3 Sept 1990 to 26 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 10 Dec 1990

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 Co Name Date January 4, 1991
5000 Dominion Blvd. Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address Bolting Program 90-B031 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Name Type Code Symbol Stamp N/A
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System Safety Injection
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 28, 29, 30, 15 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 53 583
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)
Valve	Alayco	N/A	N/A	2-S2-Mev-2860A	N/A	Replaced studs & nuts Replacement	No
Valve	Alayco	N/A	N/A	2-S2-Mev-2860A	N/A	Replaced studs & nuts Replacement	No

7. Description of Work Replaced Studs & Nuts due to corrosion
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
20 3/4"-10x7" ASME SA 193 gr B7 studs
40 3/4"-10 ASTM A194 gr 2H or ASME SA 194 gr 2H 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 [Signature] Engr. Date Jan 4 19 91
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. CO of Herndon, VA have inspected the components described in this Owner's Report during the period 9-18-90 to 1-3-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 5 June 19 91

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 Co Name
5000 Dominion Blvd Glen Allen, VA 23060 Address
Date December 12, 1980
2. Plant North Anna Power Station Name
P.O. Box 402 Mineral, VA, 23117 Address
Unit 2
Balking Program 90-0034 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Co Name
P.O. Box 402 Mineral, VA 23117 Address
Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A
4. Identification of System Charging
5. (a) Applicable Construction Code B31.7 19 69 Edition, W 70 Addenda, 78, 81, 82, 83, 105 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
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)
valve	Anchor	N/A	N/A	2-CH-MOV-21150	N/A	Replaced studs & Nuts	No
valve	Anchor	N/A	N/A	2-CH-MOV-21150	N/A	Replaced studs & Nuts	No

7. Description of Work Replaced studs & Nuts because of corrosion
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
10 5/8" - 2 1/2 x 5" ASME SA 193 ga B7 studs
20 5/8" - 11 ASME SA 194 ga 2H 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 [Signature] Date Dec 12 19 90
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. CO of Hampton VA have inspected the components described in this Owner's Report during the period 19 Sept 1990 to 11 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commission VA STG
Inspector's Signature National Board, State, Province, and Endorsements

Date 14 Dec 19 90

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 Co Name
1000 Dominion Blvd Glen Allen VA 23060 Address
Date October 31, 1990
2. Plant North Anna Power Station Name
P.O. Box 402 Minerva VA 23117 Address
Unit 2
Repair Organization Baldwin Program 90-0035 O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Co Name
P.O. Box 402 Minerva VA 23117 Address
Type Code Symbol Stamp Nil
Authorization No. N/A
Expiration Date N/A
4. Identification of System Charging
5. (a) Applicable Construction Code BC 7.2 1969 Edition, W 70 Addenda 7B, 8, 8A, 115 Code Case
(b) Applicable Edition of Section XI intended for Repairs or Replacements 1983 5B3
6. Identification of Units 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/No)
Valve	Crosby	N/A	N/A	2-CH-RV-2209	N/A	Replaced studs & nuts	No
Valve	Crosby	N/A	N/A	2-CH-RV-2209	N/A	Replacement studs & nuts	No

7. Description of Work Replace valve studs & nuts
8. Tests Conducted: Hydraulic 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
8 5/8" - 11 x 5" ASME SA 193 gA B7 or ASTM A 193 gA B7 studs
16 3/8" - 11 ASME SA 194 gA 2H nuts

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this recalculation 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 [Signature] Engr Date October 31, 1990
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 of VIRGINIA and employed by HOBAS AND I CO. of HARTFORD, CT have inspected the components described in this Owner's Report during the period SEPT 12, 1990 to OCT. 31, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA-461 NBI
Inspector's Signature National Board, State, Province, and Endorsements
Date NOVEMBER 5, 1990

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 Co Name Date November 2, 1990
5000 Dominion Blvd. Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address Balking Program 96-B036 Repair Organization, P.O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Co Name Type Code Symbol Stamp N/A
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System Charging
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda, Z8, 8, 82(A), 102 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83-583

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)
Valve	Crosby	N/A	N/A	2-CH-RV-2382B	N/A	Replaced Studs & Nuts	No
Valve	Crosby	N/A	N/A	2-CH-RV-2382B	N/A	Replaced Studs & Nuts	No

7. Description of Work Replaced Studs & 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.

FCRM NIS-2 (Back)

9. Remarks ASME Class 2
Applicable Manufacturer's Data Reports to be attached
8 5/8" - 11 X 5" ASTM A193 GR B7 or ASME SA193 GR B7 studs
16 5/8" - 11 ASME SA194 GR 2H 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 [Signature] Eng'r Date 11-2 19 90
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. V. O. I. AND I. CO. of HARTFORD, CT. have inspected the components described in this Owner's Report during the period SEPT. 22, 1990 to NOV. 2, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA-461, N, B, I
Inspector's Signature National Board, State, Province, and Endorsements

Date NOVEMBER 5 19 90

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 Co Name Date November 29, 1990
5000 Dominion Blvd. Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address Baltica Program 90-8037 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Name Type Code Symbol Stamp N/A
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System Safety Injection
5. (a) Applicable Construction Code B31.7 19 69 Edition, W 70 Addenda, 78, 81, 83(A), 15 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
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)
Valve	Valon	N/A	N/A	2-52-MOV-2869A	N/A	Replaced studs & Nuts	No
Valve	Valon	N/A	N/A	2-53-MOV-2869A	N/A	Replacement studs & Nuts	No

7. Description of Work Replaced studs & Nuts for good Maintenance Practice
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
12 3/4"-10x5" ASTM A193 ga B7 studs
12 3/4"-10 ASTM A194 ga 2H or ASME SA194 2H 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 [Signature] Eng'r Date Nov 29 19 90
 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 CO of Charlottesville CT have inspected the components described in this Owner's Report during the period 22 Sept 1990 to 29 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4 Dec 19 90

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

1. Owner Virginia Electric & Power Co Name Date December 10, 1990
5000 Dominion Blvd. Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address Bolting Program 90-B038 Repair Organization P.C. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Name Type Code Symbol Stamp N/A
P.O. Box 402 Mineral, VA 23117 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, 470 Addenda, 789, P3CA, 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 P3 583
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)
Valve	ITT Cannon	N/A	N/A	2-QS-29	N/A	Replaced Studs & Nuts	No
Valve	ITT Cannon	N/A	N/A	2-QS-29	N/A	Replacement Studs & Nuts	No

7. Description of Work Replaced Studs & Nuts because they were corroded
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
4 3/8" - 24 x 1.81" ASTM A 193 Gr B7 studs
4 3/8" - 24 ASTM A 194 Gr 2H 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 [Signature] Date Dec 10, 19 90
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 Co of Portland CT have inspected the components described in this Owner's Report during the period 20 Sept 1990 to 27 Sept 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 13 Dec 19 90

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 Co Name
5000 Dominion Blvd Glen Allen, VA 23060 Address
Date November 30, 1990
Sheet 1 of 1
2. Plant North Anna Power Station Name
P.O. Box 402 Mineral, VA 23117 Address
Unit 2
Bolting Program 90-0040
Repair Organization P.O. No., Job No., etc.
3. Work Performed by VA Virginia Electric & Power Co Name
P.O. Box 402 Mineral, VA 23117 Address
Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A
4. Identification of System Charging
5. (a) Applicable Construction Code B 31.7 19 69 Edition, W 70 Addenda 78, 81, 83(A), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
Valve	Alexco	N/A	N/A	2CH-MOV-2391	N/A	Replaced studs/nuts	No
Valve	Alexco	N/A	N/A	2CH-MOV-2391	N/A	Replacement studs/nuts	No

7. Description of Work Replaced studs & Nuts for Routine Maintenance and upset visual examine of 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 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
8 1/2" - 13 x 5" ASME SA 193 g 2 B7 studs
16 1/2" - 13 ASME SA 194 g 2 H 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 [Signature] Date Nov 30 19 90
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 & J CO. of Hartford CT have inspected the components described in this Owner's Report during the period 25 Sept 1990 to 30 Nov 1990, 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.

William E. White Commissions VATTS
Inspector's Signature National Board, State, Province, and Endorsements

Date 10 Dec 19 90

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 Co Name Date November 8, 1990
5000 Dominion Blvd Address Glen Allen, VA 23060 Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address Balking Program 90-8041 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Co Name Type Code Symbol Stamp N/A
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Charging
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 78, 81, 83R, 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 383
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)
Flange	N/A	N/A	N/A	2-LH-E-4	N/A	Replaced studs & Nuts	No
Flange	N/A	N/A	N/A	2-CH-E-4	N/A	Replacement studs & Nuts	No

7. Description of Work Replaced Flange Studs & Nuts
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
VT-2

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
Applicable Manufacturer's Data Reports to be attached
4 7/8" - 9 x 5" ASTM A193 Gr B7 studs
4 7/8" - 9 ASME SA194 Gr 2H 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 [Signature] Eng'd Date November 8, 19 90
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 CO of Heathfield Ct. have inspected the components described in this Owner's Report during the period 26 Sept 1990 to 2 NOV 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA, IT, S
Inspector's Signature National Board, State, Province, and Jurisdictions
Date 15 NOV, 19 90

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 Co. Date November 28, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Address Bolting Program 90-8042 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric + Power Co. Type Code Symbol Stamp N/A
Name
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A Expiration Date N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda, 78, 81, 83(R), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 383

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)
Valve	N/A	N/A	N/A	2-RL-SV-2551A	N/A	Replaced studs	No
Valve	N/A	N/A	N/A	2-RL-SV-2551A	N/A	Replacement studs	No

7. Description of Work Replaced studs because of incomplete certifications on replaced studs
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure Non operating psi Test Temp Non operating °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
12 1 3/8" - 8 x 16" ASME SA 193 GR B7 studs

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 [Signature] Eng R Date November 28, 19 90
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 CO of HARTFORD CT have inspected the components described in this Owner's Report during the period 29 Sept 1990 to 1 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NATB
Inspector's Signature National Board, State, Province, and Endorsements
Date 6 Dec 19 90

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 Co Date November 28, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Address Bolting Program 90-B043 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp N/A
Name
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 78, 81, 83(R), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
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)
Valve	N/A	N/A	N/A	2-RCSV-2551B	N/A	Replaced stud	No
Valve	N/A	N/A	N/A	2-RCSV-2551B	N/A	Replacement stud	No

7. Description of Work Replaced one stud for deformed threads
8. Tests Conducted: Hydraulic 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

1 1 3/8" - 8 x 16" ASME SA 193 gRB7 stud

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 [Signature] Engr Date Nov 18, 19 90
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 CO of Hunt Co - d CT have inspected the components described in this Owner's Report during the period 29 Sept 1990 to 1 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 555
Inspector's Signature National Board, State, Province, and Endorsements

Date 10 Dec 19 90

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 Co Name Date November 28, 1990
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Name Unit 2
P.O. Box 402 Mineral, VA 23117 Address Bolting Program 90-B044 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Co Name Type Code Symbol Stamp N/A
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code B31.7 19 69 Edition, W 70 Addenda 79, 86, 83(R), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
Valve	N/A	N/A	N/A	2-RC-SV-2551C	N/A	Replaced stud	No
Valve	N/A	N/A	N/A	2-RC-SV-2551C	N/A	Replacement stud	No

7. Description of Work Replaced 1 stud; rejected by NOE for deformed threads
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

1 1/8" - 8 x 16" ASME SA 193 gr B7 stud

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replaced 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 [Signature] Engl Date Nov 28 19 90
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 CONNECTICUT and employed by H.S. BLATT CO of Hartford CT have inspected the components described in this Owner's Report during the period 29 Sept 1990 to NOV 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NAJTS
Inspector's Signature National Board, State, Province, and Endorsements

Date 13 Dec 1990

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 Co Date October 31, 1990
Name
5000 Dominion Blvd, Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Address Balancing Program 90-B047 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Co Type Code Symbol Stamp N/A
Name
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A Expiration Date N/A
4. Identification of System Charging
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda Z9, P, B3CA, 105 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
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)
Valve	Valan	N/A	N/A	2-CH-250	N/A	Replaced studs & nuts	No
Valve	Valan	N/A	N/A	2-CH-250	N/A	Replacement studs & nuts	No

7. Description of Work Replaced studs & 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
12 3/4" - 10 x 5" ASTM A 193 GR B7 studs
12 3/4" - 10 ASME SA 194 GR 2H or ASTM A 194 GR 2H 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 [Signature] Engr Date October 31, 19 90
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. AND I. Co. of HARTFORD, CT. have inspected the components described in this Owner's Report during the period Oct. 6, 1990 to Oct. 31, 1990, 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.

Charles E. Mitcany Commissions NA-461 N.B.I
Inspector's Signature National Board, State, Province, and Endorsements

Date NOVEMBER 5 19 90

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 Co Name
5000 Dominion Blvd Glen Allen, VA 23060 Address
Date November 13, 1990
2. Plant North Anna Power Station Name
P.O. Box 407 Mineral, VA 23117 Address
Unit 2
Bolting Program 90-8049 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric Power Co. Name
P.O. Box 407 Mineral, VA 23117 Address
Type Code Symbol Stamp N/A
Authorization No. N/A
Expiration Date N/A
4. Identification of System Main Steam
5. (a) Applicable Construction Code B 31.7 19 69 Edition, 470 Addenda 28, 81, 83(A), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
Valve	Caosby	N550044-00-0016	N/A	2-MS-SV-201A	N/A	Replaced Studs	NO
Valve	Caosby	N550044-00-0016	N/A	2-MS-SV-201A	N/A	Replaced Studs	NO

7. Description of Work Replaced Studs, Damaged & Galled Threads, New Washers
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
VT-2

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
12 1 3/8" - 8 x 10 3/4" ASME SA 193 gr B7 studs
24 1 1/2" ID x 2 3/4" OD SAE Series N C.S. Washers

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 [Signature] Engl Date Nov 27 19 90
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. & L.C. CO of Portland CT have inspected the components described in this Owner's Report during the period 25 Sep 1990 to 26 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA558
Inspector's Signature National Board, State, Province, and Endorsements

Date 3 Dec 1990

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 Co. Date November 14, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Anna Power Station Unit 2
Name
PO Box 402 Mineral, VA 23117 Address Bolting Program 90-B050
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric + Power Co. Type Code Symbol Stamp N/A
Name
PO Box 402 Mineral, VA 23117 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Main Steam
5. (a) Applicable Construction Code B31.7 19 59 Edition, W70 Addenda, 78, 81, 83(R), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
Valve	Crosby	N550044-00-0017	N/A	2-MS-SV-201B	N/A	Replaced studs	No
Valve	Crosby	N550044-00-0017	N/A	2-MS-SV-201B	N/A	Replacement studs	No

7. Description of Work Replaced Studs, Damaged & Galled Threads, New Washers
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
VT-2

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
12 1 3/8" - 8 x 10 3/4" ASME SA 193 gh 07 studs Applicable Manufacturer's Data Reports to be attached
24 1 1/2" ID x 2 3/4" OD SAE Series N C.S. Washers

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 [Signature] Linga Date Nov 27, 1990 FORM 11-27-90

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 CO of Eden Hall CT have inspected the components described in this Owner's Report during the period 25 Sept 1990 to 16 Nov 1990, 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.

William E. [Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 3 Dec 1990

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 Co. Date November 14, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Bolting Program 90-B051
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Mineral, VA 23117 Expiration Date N/A
Address
4. Identification of System Main Steam
5. (a) Applicable Construction Code B 31.7 19 69 Edition, W70 Addenda, 78, 81, 83(R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
Valve	Crosby	N550044-00-0018	N/A	2-MS-SV-201C	N/A	Replaced Studs & Nuts	No
Valve	Crosby	N550044-00-0018	N/A	2-MS-SV-201C	N/A	Replacement Studs & Nuts	No

7. Description of Work Replaced Studs & Nuts, Damaged & Galled Threads, New Washers
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
VT-2

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)

B. Remarks ASME Class 2

12 1 3/8" - 8 x 10 3/4" ASME SA 193gh B7 studs Applicable Manufacturer's Data Reports to be attached

12 1 3/8" - 8 ASME SA 194 gr 7 nuts

24 1/2" ID x 2 3/4" OD SAE series N C.S. Washers

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 [Signature] Eng'r Date ADm 11-27-90
Owner or Owner's Designee, Title 14 Nov 22, 19 90

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 CO of Hampton CT have inspected the components described in this Owner's Report during the period 25 Sept 1990 to 16 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA558
Inspector's Signature National Board, State, Province, and Endorsements

Date 3 Dec 1990

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 Co Date November 17, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Bolting Repair 90-B052
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric + Power Co Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Mineral VA 23117 Expiration Date N/A
Address
4. Identification of System Main Steam
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 78, 81, 83 (R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 82 583
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)
Valve	Crosby	N550044-00-0019	N/A	2-MS-SV-202A	N/A	Replaced Studs + Nuts	No
Valve	Crosby	N550044-00-0019	N/A	2-MS-SV-202A	N/A	Replacement Studs + Nuts	No

7. Description of Work Replaced Studs + Nuts, Damaged & galled threads, New Washers
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
VT-2

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 (Brck)

9. Remarks ASME Class 2
 12 1 3/8" - 8 x 10 3/4" ASME SA 193 gr B7 studs Applicable Manufacturer's Data Reports to be attached
 24 1 3/8" - 8 ASME SA 194 gr 7 nuts
 24 1/2" ID x 2 3/4" OD SAE series N.C.S. Washers

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

Signature [Signature] Title ENGR Date 11/27/90

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 CO of Marlton CT have inspected the components described in this Owner's Report during the period Sept 25 1990 to Nov 16 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature William E. [Signature] Commissions VA 558
 National Board, State, Province, and Endorsements

Date 29 NOV 1990

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

1. Owner Virginia Electric & Power Co Date November 14, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
PO Box 402 Mineral, VA 23117 Bolting Program 90-0053
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp N/A
Name Authorization No. N/A
PO Box 402 Mineral, VA 23117 Expiration Date N/A
Address
4. Identification of System Main Steams
5. (a) Applicable Construction Code B31.7 19 69 Edition W70 Addenda B, 81, 83P, 115 Code 50
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 83

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)
Valve	Crosby	N55044-00-0020	N/A	2-MS-SV-202B	N/A	Repaired Studs + NUTS	NO
Valve	Crosby	N55044-00-0020	N/A	2-MS-SV-202B	N/A	Replacement Studs + Nuts	NO

7. Description of Work Replaced Studs & Nuts, Rerunged & gallded Threads, New Washers

8. Tests Conducted: Hydrostatic Pneumatic Nominal operating pressure
 Other Pressure _____ psi Temp. _____ °F
RT-2

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)

B. Remarks ASME Class 2

12 1 3/8" - 8 x 1 6 3/4" Applicable Manufacturer's Data Reports to be attached
ASME SA 193 gr B7 studs

2 1 3/8" - 8 ASME SA 194 gr 7 nuts

24 1 1/2" ID x 2 3/4" OD SAE series N C.S. Washers

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Report 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 [Signature] Date Nov 27 1990
 Owner or Owner's Designer, 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 & I Co of Montross VA have inspected the components described in this Owner's Report during the period 25 Sept 1990 to 16 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
 Inspector's Signature National Board, State, Province, and Endorsements

Date 3 Dec 1990

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 Co Date November 14, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117
Address Bolting Program 90-P054
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp N/A
Name
P.O. Box 402 Mineral, VA 23117
Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System: Main Steam
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda, 78, 81, 83(a), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 583

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)
Valve	Crosby	N550044-00-0021	N/A	2-MS-SV-2020	N/A	Replaced Studs + Nuts	No
Valve	Crosby	N550044-00-0021	N/A	2-MS-SV-2020	N/A	Replacement Studs + Nuts	No

7. Description of Work Replaced Studs + Nuts, Damaged & Galled Threads, New Washers
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
VT-2

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
12 1 3/8" - 8 x 10 3/4" ASME SA 193 gr B7 studs
24 1 3/8" - 8 ASME SA 194 gr 7 nuts
24 1 1/2" ID x 2 3/4" OD SAE series N C.S. Washers

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 [Signature] Date 11-27-90
 Owner or Owner's Designee, Title ENGR November 14 Nov 27 19 90

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 + J CO Montreal CT have inspected the components described in this Owner's Report during the period 25 Sept 1990 to 16 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VBVIX
 Inspector's Signature National Board, State, Province, and Endorsements

Date 3 Dec 1990

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 Co. Date November 14, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Botting Program 90-BOSS
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Mineral, VA 23117 Expiration Date N/A
Address
4. Identification of System Main Steam
5. (a) Applicable Construction Code B 31.7 19 69 Edition, W70 Addenda 78, 81, 83(R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 383

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)
Valve	Crosby	N550044-00-0022	N/A	2-MS-SV-203A	N/A	Replaced Studs & Nuts	No
Valve	Crosby	N550044-00-0022	N/A	2-MS-SV-203A	N/A	Replacement Studs & Nuts	No

7. Description of Work Replaced Studs & Nuts, Damaged & Galled Threads, New Washers

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

VT-2

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)

B. Remarks ASME CLASS 2
 12 1 3/8" - 8 x 10 3/4" ASME SA 193 gr B7 studs Applicable Manufacturer's Data Reports to be attached
 24 1 3/8" - 8 ASME SA 194 gr 7 nuts
 24 1 1/2" I.D. x 2 3/4" O.D. SAE series N C.S. Washers.

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 [Signature] Owner or Owner's Designee, Title Date November 14 Nov 27, 19 90 1990

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, ¹²²⁸⁰ holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of 25 S. VIRGINIA and employed by H.B. L... CO of Hartford CT have inspected the components described in this Owner's Report during the period 25 sept 1980 to 16 Nov 1980, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Inspector's Signature Commissions VA 555 National Board, State, Province, and Endorsements

Date 3 Dec 19 90

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 Co Date November 14, 1990
Name
5000 Dominion Blvd. Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Bolting Program 90-B056
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Mineral, VA 23117 Expiration Date N/A
Address
4. Identification of System Main Steam
5. (a) Applicable Construction Code B31.7 19 59 Edition, W70 Addenda 78, 81, 83(R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
Valve	Crosby	N550044-00-0023	N/A	2-MS-SV-203B	N/A	Replaced Studs + Nuts	No
Valve	Crosby	N550044-00-0023	N/A	2-MS-SV-203B	N/A	Replacement Studs + Nuts	No

7. Description of Work Replaced Studs + Nuts, Damaged & Galled Threads, New Washers
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
VT-2

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
12 1 3/8" - 8 x 10 3/4" ASME SA 193 gr B7 studs Applicable Manufacturer's Data Reports to be attached
24 1 3/8" - 8 ASME SA 194 gr 7 nuts
24 1/2" ID x 2 3/4" OD SAE series N C.S. washers

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 [Signature] Date Nov 27, 1990
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 Wisconsin and employed by H.S. Bell & Co. of Hartland, CT have inspected the components described in this Owner's Report during the period 25 Sept 1990 to 16 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions UA, JS
Inspector's Signature National Board, State, Province, and Endorsements

Date 3 Dec 1990

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 Co. Date November 14, 1990
Name
5000 Dominion Blvd Glen Allen, VA. 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Bolting Program 90-B057
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Mineral, VA. 23117 Expiration Date N/A
Address
4. Identification of System Main Steam
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda, 78, 81, 83(P), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
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)
Valve	Crosby	N550044-00-0024	N/A	2-MS-SV-203C	N/A	Replaced Studs + NUTS	No
Valve	Crosby	N550044-00-0024	N/A	2-MS-SV-203C	N/A	Replacement Studs + NUTS	No

7. Description of Work Replaced Studs + NUTS Damaged & Galled Threads, New Washers

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
VT-2

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
 12 1 3/8" - 8 x 10 3/4" ASME SA 193 gr B7 studs Applicable Manufacturer's Data Reports to be attached
 24 1 3/8" - 8 ASME SA 194 gr 7 nuts
 24 1 1/2" ID x 2 3/4" OD SAE series N C.S. washers

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 [Signature] Date Nov 27 1990
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of U.S. E. I. CO and employed by A.S.E. & I. CO of Meriden CT have inspected the components described in this Owner's Report during the period 25 Sept 1990 to 16 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature [Signature] Commissions UAS 58
National Board, State, Province, and Endorsements

Date 3 Dec 19 90

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 Co Date November 14, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anne Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Bolting Program 90-B058
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Mineral, VA 23117 Expiration Date N/A
Address
4. Identification of System: Main Steam
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 78, 81, 83(R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 883

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)
Valve	Crosby	N550044-00-0025	N/A	2-MS-SV-204A	N/A	Replaced Studs + NUTS	No
Valve	Crosby	N550044-00-0025	N/A	2-MS-SV-204A	N/A	Replacement Studs + NUTS	No

7. Description of Work Replaced Studs + NUTS, Damaged & Galled Threads, New Washers

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
VT-2

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)

B. Remarks ASME Class 2
12 1 3/8" - 8 x 10 3/4" ASME SA 193 gr B7 studs
24 1 3/8" - 8 ASME SA 194 gr 7 nuts
24 1 1/2" ID x 2 3/4" OD SAE series N C.S. washers

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

Signer [Signature] Date Nov 27, 1990
Owner or Owner's Designee, Title Engl

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 & B ILL CO of Hartford CT have inspected the components described in this Owner's Report during the period 05 Sept 1990 to 16 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions 10558
Inspector's Signature National Board, State, Province, and Endorsements

Date 3 Dec 1990

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 Co. Date November 15, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Battling Program 90-0059
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric + Power Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Mineral, VA 23117 Expiration Date N/A
Address
4. Identification of System Main Steam
5. (a) Applicable Construction Code B31.7 1969 Edition, W70 Addenda 78, 81, 83(R), 85 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83583

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)
Valve	Crosby	N550044-00-0026	N/A	2-MS-SV-204B	N/A	Replaced Studs + Nuts	No
Valve	Crosby	N550044-00-0026	N/A	2-MS-SV-204B	N/A	Replacement Studs + Nuts	No

7. Description of Work Replaced Studs + Nuts Damaged & Galled Threads, New Washers

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 VT-2

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
12 1 3/8" - 8 x 10 3/4" ASME SA 193 gr B7 studs Applicable Manufacturer's Data Reports to be attached
24 1 3/8" - 8 ASME SA 194 gr 7 nuts
24 1 1/2" ID x 2 3/4" OD SAE series N C.S. washers

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 [Signature] Date Nov 27, 19 90
Owner or Owner's Designee, Title Engl

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.P. + I CO of Arden CT have inspected the components described in this Owner's Report during the period 25 Sept 1990 to 16 NOV 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VASTB
Inspector's Signature National Board, State, Province, and Endorsements

Date 5 Dec, 19 90

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 Co. Date November 15, 1990
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 2
Bolting Program 90-B060
Repair Organization P.J. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co. Type Code Symbol Stamp N/A
Name
P.O. Box 402 Mineral, VA. 23117
Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Main Steam
5. (a) Applicable Construction Code B31.7 1969 Edition, W70 Addenda 78, 81, 83(R), 115 Code Case
(b) Applicable Edition of Section XI: Utilized for Repairs or Replacements 1983 283
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)
Valve	Crosby	N550044-00-0027	N/A	2-MS-SV-204C	N/A	Replaced Studs + Nuts	No
Valve	Crosby	N550044-00-0027	N/A	2-MS-SV-204C	N/A	Replacement Studs + Nuts	No

7. Description of Work Replaced Studs + Nuts, Damaged & Galled Threads, New Washers

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
VT-2

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
 12 1 3/8" - 8 x 10 3/4" ASME SA 193 gr B7 studs
 24 1 3/8" - 8 ASME SA 194 gr 7 nuts
 24 1 1/2" ID x 2 3/4" OD SAE series N C.S. washers

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 [Signature] Date Nov 27, 1990
 Owner or Owner's Designee, Title Eng'r

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.R. & I CO of Herndon CT have inspected the components described in this Owner's Report during the period 10 Oct 1990 to 6 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
 Inspector's Signature National Board, State, Province, and Endorsements

Date 7 Dec 1990

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 Co. Date November 15, 1990
Name
5000 Dominion Blvd. Glen Allen, VA 23060 Address
Sheet 1 of 1
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Address
Bolting Program 90-8061 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co. Type Code Symbol Stamp N/A
Name
P.O. Box 402 Mineral, VA 23117 Address
Authorization No. N/A
Expiration Date N/A
4. Identification of System Main Steam
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 78, 81, 83(A), 15 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
Valve	Crosby	N550044-00-0028	N/A	2-MS-SV-205A	N/A	Replaced Studs + Nuts	No
Valve	Crosby	N550044-00-0028	N/A	2-MS-SV-205A	N/A	Replacement Studs + Nuts	No

7. Description of Work Replaced Studs + Nuts, Damaged & galled threads, New Washers
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
VT-2

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
12 1 3/8" - 8 x 10 3/4" ASME SA 193 gr B7 studs
24 1 3/8" - 8 ASME SA 194 gr 7 nuts
24 1 1/2" ID x 2 3/4" OD SAE series N C.S. washers

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 [Signature] Date 11-27-90 Boots Nov 27 19 90
Owner or Owner's Designee, Title Eng

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 CO of Hampton VA have inspected the components described in this Owner's Report during the period 25 Sept 1990 to 16 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 78
Inspector's Signature National Board, State, Province, and Endorsements

Date 30 Nov 19 90

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 Co. Date November 15, 1990
Name
5000 Dominion Blvd Glen Allen, VA. 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA. 23117 Bolting Program 90-B062
Address Repair-Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric + Power Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Mineral, VA. 23117 Expiration Date N/A
Address
4. Identification of System Main Steam
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda, 78, 81, 83(R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
Valve	Crosby	N550044-00-0029	N/A	2-MS-SV-205B	N/A	Replaced Studs + Nuts	No
Valve	Crosby	N550044-00-0029	N/A	2-MS-SV-205B	N/A	Replacement Studs + Nuts	No

7. Description of Work Replaced Studs + Nuts, Damaged & Galled Threads, New Washers
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
VT-2

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)

B. Remarks ASME Class 2
Applicable Manufacturer's Data Reports to be attached
12 1 3/8" - 8 x 10 3/4" ASME SA 193 gr B7 studs
24 1 3/8" - 8 ASME SA 194 gr 7 nuts
24 1 1/2" ID x 2 3/4" OD SAE series N C.S. washers

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 [Signature] Date 11-22-90 Engl November 27, 1990
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.T.I.CO. of Waterford CT have inspected the components described in this Owner's Report during the period 25 Sept 1990 to 16 NOV 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VASSX
Inspector's Signature National Board, State, Province, and Endorsements

Date 30 NOV 1990

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 Co. Date November 15, 1990
Name
5000 Dominion Blvd Glen Allen, VA. 22060 Sheet 1 of 1
Address

2. Plant North Anna Power Station Unit 2
Name
PO Box 402 Mineral, VA 23117 Bolting Program 90-8063
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Virginia Electric & Power Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
PO. Box 402 Mineral, VA. 23117 Expiration Date N/A
Address

4. Identification of System Main Steam

5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda 78, 81, 83(R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
Valve	Crosby	MS50044-00-0030	N/A	2-MS-SV-205C	N/A	Replaced Studs + Nuts	No
Valve	Crosby	MS50044-00-0030	N/A	2-MS-SV-205C	N/A	Replacement Studs + Nuts	No

7. Description of Work Replaced Studs + Nuts, Damaged & Galled Threads, New Washers

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 VT-2

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
 12 1 3/8" - 8 x 10 3/4" ASME SA 193 gr B7 studs
 24 1 3/8" - 8 ASME SA 194 gr 7 studs
 24 1 1/2" ID x 2 3/4" OD SAE series N C.S. washers

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repairment 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 [Signature] Date Nov 15 Nov 27 19 90
 Owner or Owner's Designee, Title Engl

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 CO of Hartford CT have inspected the components described in this Owner's Report during the period 25 Sept 1990 to 16 Nov 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VASSX
 Inspector's Signature National Board, State, Province, and Endorsements

Date 27 Nov 19 90

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 Co Date November 29, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Address Sheet 1 of 1
2. Plant North Ave Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Address Ref 90-225; Boiling Program 90-8067
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp N/A
Name
P.O. Box 402 Mineral, VA 23117 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System Main Steam
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda, 79, 81, 83(R), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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)
Valve	Walworth	C-61482	N/A	2-M5-95	N/A	Repaired	No
Valve	Walworth	C-61482	N/A	2-M5-95	N/A	Replaced	No
Valve	Walworth	C-61482	N/A	2-M5-95	N/A	Study & Nuts Replacement	No
						Study & Nuts	No

7. Description of Work Repaired Steam Cont, Replaced Studs & Nuts for Good Maintenance Practice
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
14 5/8" - 11 x 5" ASTM A193 ga B7 or ASME SA193 ga B7 studs
28 5/8" ASME SA194 ga 2H nuts

CERTIFICATE OF COMPLIANCE *repair and replacement*

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 [Signature] Date Nov 27, 19 90
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 CONNECTICUT and employed by H. B. J. & L. CO of Meriden CT have inspected the components described in this Owner's Report during the period 12 OCT 1990 to 1 NOV 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions UPA 578
Inspector's Signature National Board, State, Province, and Endorsements

Date 14 Dec, 19 90

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 Co Date January 19, 1991
Name
5000 Dominion Blvd. Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant Nanti Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Belting Room 91-B035
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 402 Mineral, VA 23117 Expiration Date N/A
Address
4. Identification of System Charging
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda ZPP, PSCA, US Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583
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)
Spring Hanger	Grainwell	N/A	N/A	2-CH-SH-005	N/A	Replaced Stud & Nuts	No
Spring Hanger	Grainwell	N/A	N/A	2-CH-SH-005	N/A	Replacement Stud & Nuts	No

7. Description of Work Replaced stud & nuts, stud was too short for proper thread engagement of nuts
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 VT-3

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)

B. Remarks ASME Class 1
Applicable Manufacturer's Data Reports to be attached
1 3/4" - 10 x 5" ASTM A ~~325~~ 325 Type 1 stud.
2 3/4" - 10 ASME SA 194 g2H nuts. Work was performed before RoR
Package was approved by ANTI. O.R. ^{N-91-0090} was written to address this discrepancy.
All work was performed to code.

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 [Signature] Date January 21, 1991
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. & I. CO of Chatham CT have inspected the components described in this Owner's Report during the period 10 Oct 1990 to 26 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB-15
Inspector's Signature National Board, State, Province, and Endorsements

Date 21 Jan 1991

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 Co Date January 19, 1991
Name
5000 Dominion Blvd. Glen Allen, VA 23060 Sheet 1 of 1
Address
2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 Bolting Program 91-0036
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Virginia Electric & Power Co Type Code Symbol Stamp NA
Name Authorization No. NA
P.O. Box 402 Mineral, VA 23117 Expiration Date NA
Address
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code B31.7 19 69 Edition, W70 Addenda, 7P, 8, P, R, 2, 15 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 P3 5B3
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)
Spring Hanger	Garrett	N/A	N/A	2-RC-SH-1	N/A	Replaced stud & nuts Replacement	No
Spring Hanger	Garrett	N/A	N/A	2-RC-SH-1	N/A	stud & nuts Replacement	No

7. Description of Work Installed missing spacer bolt and nuts
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
VT-3

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
1 1/2"-13 x 3 1/2" ASME SA 193 gr A7 stud
2 1/2"-13 ASME SA 194 gr 2H nuts. Work was performed before ReR package
was approved by ANTT. D.R. ^{N-91-0070} was written to address this discrepancy. All work
was performed to code

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 [Signature] Date January 21, 19 91
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. & C. CO of Hartford CT have inspected the components described in this Owner's Report during the period 10 OCT 90 to 26 OCT 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions UP 555
Inspector's Signature National Board, State, Province, and Endorsements

Date 21 Jan, 19 91

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

1. Owner: VIRGINIA POWER Date: OCTOBER 19, 1990
Name
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Sheet 1 of 2
Address
2. Plant: NORTH ANNA POWER STATION Unit: 2
Name
PO BOX 402 MINERAL, VA 23117 MMP-P-HSS-1, 2-PT-79.0, 2-PT-79.3
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by: VIRGINIA POWER Type Code Symbol Stamp: N/A
Name Authorization No. N/A
PO BOX 402, MINERAL, VA 23117 Expiration Date N/A
Address
4. Identification of System: FEEDWATER
5. (a) Applicable Construction Code: B31.7 19 69 Edition, 70 Addenda 788, 82, 83, 84, 85 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83

6. Identification of Components Repaired or Replaced and Replacement Components (SEE SUPPLEMENTAL SHEET FOR IDENTIFICATION OF REPLACED & 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)
 							
 							
 							
 							

7. Description of Work: REPLACED SNUBBER
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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. THIS NIS-2 COVERS WORK ORDER
Applicable Manufacturer's Data Reports to be attached
NUMBERS 5900107450, 5900107443, 5900107442
REPLACED TOTAL OF THREE (3) SNUBBERS

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 [Signature] Date 10-21, 19 90
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 HARTFORD STEAM BOILER & CO. of HARTFORD CT have inspected the components described in this Owner's Report during the period 1st oct 1990 to 19 oct 1990, 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.

William S. Nelson Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements
Date 21 oct 1990

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

1. Owner VIRGINIA POWER Name Date OCTOBER 19, 1990
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Address Sheet 1 of 1
2. Plant NORTH ANNA FEWER STATION Name Unit 2
PO BOX 402 MINERAL VA. 23117 Address MMP-P-HSS 1, 2 PT. 79.0, 2 PT. 79.3 Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL VA. 23117 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System RECIRCULATION SPRAY
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addends, 73, 81, 83(R) 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 583

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITTGRINWELL	1016	N/A	2-RS-HSS 303	87	REPLACED	NO
SNUBBER	ITTGRINWELL	1170	N/A	2-RS-HSS 303	90	REPLACEMENT	NO
SNUBBER	ITTGRINWELL	1035	N/A	2-RS-HSS 622B	85	REPLACED	NO
SNUBBER	ITTGRINWELL	1684	N/A	2-RS-HSS 622B	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER 2-RS-HSS-303 FOR FUNCT. TEST GRP. "A" PER W.O. # 5900106704
REPLACED SNUBBER 2-RS-HSS-622B FOR SEAL LIFE PER W.O. # 5900107495
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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 [Signature] Date 10-21, 19 90
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 WATERED STEAM BOILER I & I CO of WATERLOO CT have inspected the components described in this Owner's Report during the period 19 OCT 1990 to 19 OCT 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 21 OCT 19 90

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

1. Owner VIRGINIA POWER Name Date OCTOBER 19, 1990
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Address Sheet 1 of 1
2. Plant NORTH ANNA POWER STATION Name Unit 2
PO BOX 402 MINERAL, VA. 23117 Address MMP.P.HSS-1, 2.PT.79.0, 2.PT.79.3 Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL, VA. 23117 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, 70 Addenda 78, 81, 83 (E) Code Case 115
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITTGRINWELL	1175	N/A	2-QS-HSS 304	89	REPLACED	NO
SNUBBER	ITTGRINWELL	1253	N/A	2-QS-HSS 304	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER FOR FUNCTIONAL TEST GROUP "A" PER WORK ORDER NUMBER 5900106654
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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 [Signature] Date 10-21, 19 90
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 Northford Steam Boilers I & T CO of Northford CT have inspected the components described in this Owner's Report during the period 19 Oct 1990 to 19 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 21 Oct 19 90

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

1. Owner VIRGINIA POWER Date OCTOBER 19, 1990
Name
5000 DOMINION BLVD, GLENALEN, VA 23060 Sheet 1 of 3
Address
2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL, VA 23117 MMP-P-HSS-1, 2-PT-79.0, 2-PT-79.3
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name Authorization No. N/A
PO BOX 402 MINERAL, VA 23117 Expiration Date N/A
Address
4. Identification of System CHEMICAL & VOLUME CONTROL
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 78, 81, 83(B), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83

6. Identification of Components Repaired or Replaced and Replacement Components (SEE SUPPLEMENTAL SHEET FOR IDENTIFICATION OF REPLACED & 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)
 							
 							
 							
 							
 							

7. Description of Work REPLACED SNUBBERS

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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. THIS NIS-2 COVERS WORK ORDER
NUMBERS 5900106649, 5900107460, 5900107459, 5900107463,
5900106650, 5900107464, 5900106652, 5900107469, 5900107468,
5900107505, 5900106653, 5900107467; REPLACED TOTAL OF TWELVE
(12) SNUBBERS.

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 [Signature] Date 10-21, 19 90
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 Hartford Steam Boiler I + I CO of Hartford CT have inspected the components described in this Owner's Report during the period 19 Oct 1990 to 19 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA-55
Inspector's Signature National Board, State, Province, and Endorsements
Date 21 Oct 19 90

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

1. Owner VIRGINIA POWER Name Date OCTOBER 5, 1990
5000 DOMINION BLVD. GLEN ALLEN, VA 23060 Address Sheet 1 of 1
2. Plant NORTH ANLIA POWER STATION Name Unit 2
PO BOX 402 MINERAL VA. 23117 Address MMP-P-HSS-1, 2, PT-79.0, 2, PT-79.3 Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL, VA. 23117 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System SAFETY INJECTION
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 78, 81, 83(R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINWELL	1002	N/A	2-SI-HSS-41902	89	REPLACED	NO
SNUBBER	ITT GRINWELL	1753	N/A	2-SI-HSS-41902	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER FOR FUNCTIONAL TEST GROUP "A" PER WORK ORDER NO 5900106719.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 NONE 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

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 [Signature] Eng'r Date Oct 6, 1990
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 Hatfield Steam Boiler I & L Co of Hatfield CT have inspected the components described in this Owner's Report during the period 5 Oct 1990 to 5 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 555
Inspector's Signature National Board, State, Province, and Endorsements

Date 6 October 1990

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

1. Owner VIRGINIA POWER Date OCTOBER 5, 1990
Name
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Sheet 1 of 2
Address
2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL, VA 23117 MMP-P-HSS-1, 2-PT-79.0, 2-PT-79.3
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name Authorization No. N/A
PO BOX 402 MINERAL, VA 23117 Expiration Date N/A
Address
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 78, 81, 83 (B) ¹¹⁵ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3, SB3

6. Identification of Components Repaired or Replaced and Replacement Components (SEE SUPPLEMENTAL SHEET FOR IDENTIFICATION OF 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)
 							
 							
 							
 							
 							

7. Description of Work REPLACED SNUBBER

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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. THIS NIS-2 COVERS WORK ORDER
NUMBERS 5900107475, 5900107478, 5900106660,
5900106667, 5900107484, 5900106668, 5900106685
REPLACED TOTAL OF SEVEN (7) SNUBBERS

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 [Signature] Eng'r Date Oct 6, 19 90
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 Hartford Steam Boiler & T Co. of Hartford CT have inspected the components described in this Owner's Report during the period 5 Oct 1990 to 5 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions UASIS
Inspector's Signature National Board, State, Province, and Endorsements

Date 6 Oct, 19 90

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

1 Owner VIRGINIA POWER Date OCTOBER 5, 1990
Name

5000 DOMINION BLVD GLEN ALLEN, VA 23060 Sheet 2 of 2
Address

2 Plant NORTH ANNA POWER STATION Unit 2
Name

PO BOX 402 MINERAL, VA 23117 MMPD-HSS-1, 2-PT-79.0, 2-PT-79.3
Address Repair Organization P.O. No., Job No., etc.

3 Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name

PO BOX 402 MINERAL, VA 23117 Authorization No. N/A
Address Expiration Date N/A

4 Identification of system REACTOR COOLANT

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 789183(D) ¹⁵ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 88, 83

6. Identification of Components Repaired or Replaced or 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)	REASON FOR REPLACEMENT	WORK ORDER NUMBER
SNUBBER	ITTGRINNELL	1096	N/A	2-PC-HSS 445.03	85	REPLACED	NO	FOR SEAL LIFE	107475
SNUBBER	ITTGRINNELL	1067	N/A	2-PC-HSS 445.03	90	REPLACEMENT	NO	FOR SEAL LIFE	107475
SNUBBER	ITTGRINNELL	1166	N/A	2-PC-HSS 447.01	85	REPLACED	NO	FOR SEAL LIFE	107478
SNUBBER	ITTGRINNELL	1309	N/A	2-PC-HSS 447.01	90	REPLACEMENT	NO	FOR SEAL LIFE	107478
SNUBBER	ITTGRINNELL	1082	N/A	2-PC-HSS 448.01	89	REPLACED	NO	FOR FUNCTIONAL TEST GROUP 'A'	106660
SNUBBER	ITTGRINNELL	1353	N/A	2-PC-HSS 448.01	90	REPLACEMENT	NO	FOR FUNCTIONAL TEST GROUP 'A'	106660
SNUBBER	ITTGRINNELL	1311	N/A	2-PC-HSS 523.01	89	REPLACED	NO	FOR FUNCTIONAL TEST GROUP 'A'	106667
SNUBBER	ITTGRINNELL	1430	N/A	2-PC-HSS 523.01	90	REPLACEMENT	NO	FOR FUNCTIONAL TEST GROUP 'A'	106667
SNUBBER	ITTGRINNELL	1259	N/A	2-PC-HSS 531.03	85	REPLACED	NO	FOR SEAL LIFE	107484
SNUBBER	ITTGRINNELL	1445	N/A	2-PC-HSS 531.03	90	REPLACEMENT	NO	FOR SEAL LIFE	107484
SNUBBER	ITTGRINNELL	1730	N/A	2-PC-HSS 531.07	89	REPLACED	NO	PER PREVIOUS FAILURE	106668
SNUBBER	ITTGRINNELL	1680	N/A	2-PC-HSS 531.07	90	REPLACEMENT	NO	PER PREVIOUS FAILURE	106668
SNUBBER	ITTGRINNELL	1246	N/A	2-PC-HSS 534.01	85	REPLACED	NO	FOR FUNCTIONAL TEST GROUP 'A'	106685
SNUBBER	ITTGRINNELL	1173	N/A	2-PC-HSS 534.01	90	REPLACEMENT	NO	FOR FUNCTIONAL TEST GROUP 'A'	106685

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

1. Owner VIRGINIA POWER Date OCTOBER 3, 1990
Name
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Sheet 1 of 1
Address
2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO Box 402, MINERAL, VA 23117 MMP-P-HSS-1, 2-PT-79.0, 2-PT-79.3
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name Authorization No. N/A
PO Box 402, MINERAL, VA 23117 Expiration Date N/A
Address
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 78, 81, 83, 84, 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITGRINNELL	1142	N/A	2-PC-HSS-457.02A	85	REPLACED	NO
SNUBBER	ITGRINNELL	1024	N/A	2-PC-HSS-457.02A	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER FOR SEAL LIFE PER WORK ORDER NUMBER 5900107476
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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 [Signature] Title Engn Date Oct 4, 19 90

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 Inspection of Hartford, CT have inspected the components described in this Owner's Report during the period 3 Oct 1990 to 5 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 424
Inspector's Signature National Board, State, Province, and Endorsements

Date 5 Oct 19 90

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

1. Owner VIRGINIA POWER Date OCTOBER 3, 1990
Name
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Sheet 1 of 1
Address
2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL VA 23117 MMP.P.HSS.1, 2.PT.79.0, 2.PT.79.3
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name Authorization No. N/A
PO BOX 402 MINERAL VA 23117 Expiration Date N/A
Address
4. Identification of System MAIN STEAM
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 78, 81, 83 (P) ¹¹⁵ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 583

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINNELL	6024	N/A	2. SHP. HSS-211A	87	REPLACED	NO
SNUBBER	ITT GRINNELL	6016	N/A	2. SHP. HSS-211A	89	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER FOR FUNCTIONAL TEST GROUP 'A' PER WORK ORDER NUMBER 5900105714
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
NONE

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 [Signature] Engl Date Oct 4, 19 90
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 Hartford Steam Boiler Insp. & Insur. of Hartford, CT have inspected the components described in this Owner's Report during the period 2 Oct 1990 to 5 Oct 1990, 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.

Merk M. Hagg Commissions VA 424
Inspector's Signature National Board, State, Province, and Endorsements

Date 5 Oct 19 90
m m h 5 Oct 1990

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

1. Owner VIRGINIA POWER Name Date OCTOBER 1, 1990

5000 DOMINION BLVD, GLEN ALLEN VA, 23060 Address Sheet 1 of 2

2. Plant NORTH ANNA POWER STATION Name Unit 2

PO BOX 402 MINERAL VA 23117 Address MMP.P.HSS-1,2-PT-79.0,2-PT-79.3 Repair Organization P.O. No., Job No., etc.

3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A

PO BOX 402 MINERAL VA, 23117 Address Authorization No. N/A
Expiration Date N/A

4. Identification of System SAFETY INJECTION

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 78,81,83(A), 15 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83,83

6. Identification of Components Repaired or Replaced and Replacement Components (SEE SUPPLEMENTAL SHEET FOR IDENTIFICATION OF 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)
 							
 							
 							
 							
 							

7. Description of Work REPLACED SNUBBER

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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 THIS NIS-2 COVERS WORK ORDER
NUMBERS 5900106725, 5900107431, 5900106726,
5900107502, 5900106720, 5900107500, 5900107499
REPLACED TOTAL OF SEVEN (7) SNUBBERS

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 [Signature] Engr Date Oct 1, 19 90
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 Hanham Steam Boiler I & P Co of Hanham et have inspected the components described in this Owner's Report during the period 1 Oct 1990 to 1 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements
Date 2 Oct 19 90

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

1. Owner VIRGINIA POWER Name Date OCTOBER, 1, 1990

5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Address Sheet 1 of 2

2. Plant NORTH ANNA POWER STATION Name Unit 2

PO BOX 402 MINERAL VA, 23117 Address MMPD-HSS-1, 2-PT-79.0, 2-PT-79.3 Repair Organization P.O. No., Job No., etc.

3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A

PO BOX 402 MINERAL VA 23117 Address Authorization No. N/A
Expiration Date N/A

4. Identification of System MAIN STEAM

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 7881, 832 ¹¹⁵ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83

6. Identification of Components Repaired or Replaced and Replacement Components (SEE SUPPLEMENTAL SHEET FOR IDENTIFICATION OF 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)
 							
 							
 							
 							
 							

7. Description of Work REPLACED SNUBBER

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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)

Remarks ASME CLASS 2. THIS NIS-2 COVERS WORK ORDER
NUMBERS 5900107448, 5900106716, 5900106717.
REPLACED TOTAL OF THREE (3) SNUBBERS.

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 Fred Wahl Engr Date Oct 1 19 90
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 VERMONT and employed by Heathwood Steam Boiler & T Co of Heathwood CT have inspected the components described in this Owner's Report during the period 1 Oct 1990 to 1 Oct 1990, 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.

William E. Pluh Commissions VA 575
Inspector's Signature National Board, State, Province, and Endorsements

Date 2 Oct 19 90

FORM N-5-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner VIRGINIA POWER Name Date OCTOBER 1, 1990
5000 DOMINION BLVD, GLENDALEN VA 23060 Address Sheet 1 of 1

2. Plant NORTH ANNA POWER STATION Name Unit 2
PO BOX 402 MINERAL VA 23117 Address MMP P. HSS 12 FT. 79.0 2 FT. 79.3 Repair Organization F.O. No., Job No., etc.

3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL VA 23117 Address Authorization No. N/A
 Expiration Date N/A

4. Identification of System RECIRCULATION SPRAY

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 78, 84, 83(A) 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83B

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINNELL	1625	N/A	2-RS-HSS-300	85	REPLACED	NO
SNUBBER	ITT GRINNELL	1444	N/A	2RS-HSS 300	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER FOR SEAL LIFE PER WORK ORDER 59003107496

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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

Signature [Signature] Title Engr Date Oct 1, 19 90
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 VISSIN. A and employed by Hartford Steam Boiler & Fitting Co. of Hartford Ct have inspected the components described in this Owner's Report during the period 1 Oct 1990 to 2 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 5TS
Inspector's Signature National Board, State, Province, and Endorsements

Date 2 Oct, 19 90

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

1. Owner VIRGINIA POWER Name Date OCTOBER 1, 1990
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Address Sheet 1 of 1
2. Plant WORTHANNA POWER STATION Name Unit 2
PO BOX 402 MINERAL, VA 23117 Address MMP-P-HSS-1, 2-PT-79.0, 2-PT-79.3 Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL, VA 23117 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System WET LAYUP
5. (a) Applicable Construction Code B31.7 1969 Edition, 70 Addenda 78, 81, 83(P) Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, 83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINWELL	1473	N/A	2-WT-HSS-406.02	85	REPLACED	NO
SNUBBER	ITT GRINWELL	1047	N/A	2-WT-HSS-406.02	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER FOR SEAL LIFE PER WORK ORDER 5900157424
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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 [Signature] Title Eng R Date Oct 1, 1990

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 Marblec Steam Boiler & PIP Co of Manassas CT have inspected the components described in this Owner's Report during the period 1 Oct 1990 to 1 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Inspector's Signature Commissions 11575 National Board, State, Province, and Endorsements

Date 2 Oct 1990

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

1. Owner VIRGINIA POWER Name Date OCTOBER 1, 1990

5000 DOMINION CUD, GLEN ALLEN, VA, 23060 Address Sheet 1 of 2

2. Plant NORTH ANNA POWER STATION Name Unit 2

PO BOX 402, MINERAL, VA, 23117 Address MMP-PHSS-1, 2 PT. 79.0, 2 PT. 79.3 Repair Organization P.O. No., Job No., etc.

3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A

PO BOX 402 MINERAL, VA, 23117 Address Authorization No. N/A
Expiration Date N/A

4. Identification of System RESIDUAL HEAT

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 78, 81, 83, 85 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83

6. Identification of Components Repaired or Replaced and Replacement Components (SEE SUPPLEMENTAL SHEET FOR IDENTIFICATION OF 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)
 							
 							
 							
 							

7. Description of Work REPLACED SNUBBER

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE Other Pressure _____ ps. 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. THIS NIS-2 COVERS WORK ORDER NUMBERS
5900107490, 5900106703, 5900107511, 5900107430
REPLACED TOTAL OF FOUR (4) SNUBBERS

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 [Signature] Engr Date Oct 1 19 90
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 Wentworth Service Boiler & L.L.C. of Charlottesville CT have inspected the components described in this Owner's Report during the period 1 Oct 1980 to 1 Oct 1980, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 555
Inspector's Signature National Board, State, Province, and Endorsements

Date 2 Oct 19 90

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

1. Owner VIRGINIA POWER Name Date OCTOBER 1, 1990
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Address Sheet 1 of 2

2. Plant NORTH ANNA POWER STATION Name Unit 2
PO BOX 402, MINERAL, VA. 23117 Address MMP-P.HSS-1, 2-PT-79.0, 2-PT-79.3 Repair Organization P.O. No., Job No., etc.

3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL VA. 23117 Address Authorization No. N/A
Expiration Date N/A

4. Identification of System FEEDWATER

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 78, 81, 83(R) ¹¹⁵ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83B

6. Identification of Components Repaired or Replaced and Replacement Components (SEE SUPPLEMENTAL SHEET FOR IDENTIFICATION OF 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)
 							
 							
 							
 							
 							

7. Description of Work REPLACED SNUBBERS

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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. THIS NIS-2 COVERS WORK ORDER
Applicable Manufacturer's Data Reports to be attached
NUMBERS 5900106683, 5900107449.
REPLACED TOTAL OF (2) TWO SNUBBERS.

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 [Signature] Eng'r Date Oct 1, 19 90
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 Yukon and employed by Hartford Steam Boilers & EC of Hartford CT have inspected the components described in this Owner's Report during the period 1-OCT 1990 to 1-OCT 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NA558
Inspector's Signature National Board, State, Province, and Endorsements

Date 1 Oct, 19 90

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

1. Owner VIRGINIA POWER Date SEPTEMBER 16, 1990
Name
5000 DOMINION BLVD, GLEN ALLEN, VA, 23060 Address Sheet 1 of 2

2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL, VA 23117 Address
WO# 107432, 106721, 107501, 107498, 106724, 107497,
MMP-P-HSS-1 115502 Repair Organization P.O. No., Job No., etc.

3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name
PO BOX 402 MINERAL, VA 23117 Address
Authorization No. N/A
Expiration Date N/A

4. Identification of System SAFETY INJECTION

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 7B, 8(P), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 5B3

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINNELL	2082	N/A	2.51" HSS-101	85	REPLACED	NO
SNUBBER	ITT GRINNELL	2028	N/A	2.51" HSS-101	89	REPLACEMENT	NO
SNUBBER	ITT GRINNELL	1222	N/A	2.51" HSS-500	89	REPLACED	NO
SNUBBER	ITT GRINNELL	1476	N/A	2.51" HSS-500	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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)

D. 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 [Signature] Date Sept 17, 1990, 19____
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of 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 Sept. 16, 1990 to Sept. 17, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 424
Inspector's Signature National Board, State, Province, and Endorsements

Date Sept. 17 1990

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

1. Owner VIRGINIA POWER Date SEPTEMBER 16, 1990
Name
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Sheet 1 of 2
Address
2. Plant NORTH ANNA POWER STATION Unit 2
Name WO# 106723, 107503, 106722
PO BOX 402, MINERAL, VA 23117 MMP-P-HSS-1
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name Authorization No. N/A
PO BOX 402, MINERAL, VA 23117 Expiration Date N/A
Address
4. Identification of System SAFETY INJECTION
5. (a) Applicable Constr. Code B31.7 19 69 Edition, 70 Addenda, 18, 81(E), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, 823
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINNELL	1086	N/A	2-SI-HSS 802A	86	REPLACED	NO
SNUBBER	ITT GRINNELL	1026	N/A	2-SI-HSS 802A	89	REPLACEMENT	NO
SNUBBER	ITT GRINNELL	1487	N/A	2-SI-HSS 806	85	REPLACED	NO
SNUBBER	ITT GRINNELL	1198	N/A	2-SI-HSS 806	89	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 NONE 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 [Signature] Date Sept 17, 19 90
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 Sept. 16, 1990 to Sept. 18, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 724
Inspector's Signature National Board, State, Province, and Endorsements

Date Sept. 19, 19 90

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

1. Owner VIRGINIA POWER Date SEPTEMBER 16, 1990

5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Sheet 1 of 2

2. Plant NORTH ANNA POWER STATION Unit 2

PO BOX 402 MINERAL, VA 23117 MMP P-HSS-1 106709
Repair Organization P.O. No., Job No., etc.

3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A

PO BOX 402 MINERAL, VA 23117 Authorization No. N/A
Expiration Date N/A

4. Identification of System MAIN STEAM

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 78, 81(R), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINNELL	6025	N/A	2-SHP-HSS-212B	87	REPLACED	NO
SNUBBER	ITT GRINNELL	6014	N/A	2-SHP-HSS-212B	89	REPLACEMENT	NO
SNUBBER	ITT GRINNELL	1126	N/A	2-SHP-HSS-460.01	88	REPLACED	NO
SNUBBER	ITT GRINNELL	1641	N/A	2-SHP-HSS-460.01	89	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
NONE

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 [Signature] Eng R Date Sept 17, 19 90
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 Sept 16, 1990 to Sept. 19, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 424
Inspector's Signature National Board, State, Province, and Endorsements

Date Sept. 19 19 90

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

1. Owner VIRGINIA POWER Date SEPTEMBER 16, 1990
Name
5000 DOMINION BLVD, GLEN ALLEN, VA, 23060 Sheet 1 of 2
Address
2. Plant NORTH ANNA POWER STATION Unit 2
Name WO# 107425, 106729, 107423, 107422, 106727
PO BOX 402, MINERAL VA, 23117 MMP-P-HSS-1
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name Authorization No. N/A
PO BOX 402, MINERAL VA, 23117 Expiration Date N/A
Address
4. Identification of System WET LAYUP
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 7B, 81(E), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83B
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 Replaceme.	ASME Code Stamped (Yes/No)
SNUBBER	ITT GRINNELL	1224	N/A	2-WT-HSS 405.03	85	REPLACED	NO
SNUBBER	ITT GRINNELL	1631	N/A	2-WT-HSS 405.03	90	REPLACEMENT	NO
SNUBBER	ITT GRINNELL	1064	N/A	2-WT-HSS 405.05	87	REPLACED	NO
SNUBBER	ITT GRINNELL	1110	N/A	2-WT-HSS 405.05	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
NONE

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)

B. 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 [Signature] Date Sept 17, 1990
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 Sept 16, 1990 to Sept. 19, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 424
Inspector's Signature National Board, State, Province, and Endorsements

Date Sept. 19 1990

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

1. Owner VIRGINIA POWER Date SEPTEMBER 15, 1990
Name
5000 DOMINICAL FLD, GLEN ALLEN, VA 23060 Address Sheet 1 of 2
2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL, VA 23117 Address
WO# 106657, 107482, 107481
MMP P-HSS-1
Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name
PO BOX 402 MINERAL, VA 23117 Address
Authorization No. N/A
Expiration Date N/A
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 78, 81(R), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 88, 89
6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINNELL	1104	N/A	2-RC HSS-138	87	REPLACED	NO
SNUBBER	ITT GRINNELL	1326	N/A	2-RC HSS-138	90	REPLACEMENT	NO
SNUBBER	ITT GRINNELL	1034	N/A	2-RC HSS-466.02	85	REPLACED	NO
SNUBBER	ITT GRINNELL	1396	N/A	2-RC HSS-466.02	89	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
NONE

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 [Signature] Eng'r Date Sept 17 19 90
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 Sept 15, 1990 to Sept. 19, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 424
Inspector's Signature National Board, State, Province, and Endorsements

Date Sept 19 19 90

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

1. Owner VIRGINIA POWER Date SEPTEMBER 29, 1990
Name
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Sheet 1 of 3
Address
2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL, VA 23117 MMP-PHSS 1, 2 PT. 79.0, 2 PT. 79.3
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name
PO BOX 402 MINERAL, VA 23117 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RESIDUAL HEAT
5. (a) Applicable Construction Code B31.7 1969 Edition, 70 Addenda 78, 81, 85, 115 Code Case B31.7-1990
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, 83

6. Identification of Components Repaired or Replaced, and Replacement Components (SEE SUPPLEMENTAL SHEET FOR IDENTIFICATION OF 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)
 							
 							
 							
 							
 							

7. Description of Work REPLACED SNUBBER
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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. THIS NIS-2 COVERS WORK ORDER
Applicable Manufacturer's Data Reports to be attached
NUMBERS 5900107491, 5900106701, 5900107489, 5900106700,
5900106699, 5900107429, 5900106702, 5900107428,
5900107427, 5900107488, 5900107494. REPLACED TOTAL OF ELEVEN (11) NUMBERS.

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 [Signature] Title Engl Date Oct 1, 19 90

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 & E Co. of Hartford CT have inspected the components described in this Owner's Report during the period 29 Sept 1990 to 29 Sept 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NAT-8
Inspector's Signature National Board, State, Province, and Endorsements

Date 1 Oct, 19 90

SUPPLEMENTAL SHEET

ATTACHMENT 111
Page 106 of 135
Side 1 of 1

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

1 Owner VIRGINIA POWER Name SEPT 29, 1990 Date
5000 DOMINION BLVD CHAS ALLEN, VA 23060 Address Sheet 2 of 3
2 Plant NORTH ANNA POWER STATION Name Unit 2
PO BOX 402 MINERAL, VA 23117 Address MMP P-HSS 1 NRS 10/1/90
MMP P-HSS 2 PT 79.0, 2 PT 79.3 Repair Organization P.O. No., Job No., etc
3 Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL, VA 23117 Address Authorization No. N/A
Expiration Date N/A
4 Identification of system RESIDUAL HEAT
5 (a) Applicable Construction Code B31.7 IS 69 Edition, 70 Addenda, 78, 81, 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements IS 83, 583

6 Identification of Components Repaired or Replaced or 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)	REASON FOR REPLACEMENT	WORK ORDER NUMBER
SNURPER	ITT GRINNELL	1581	N/A	2-PH-HSS 100A	85	REPLACED	NO	SEAL LIFE	107491
SNURPER	ITT GRINNELL	1442	N/A	2-PH-HSS 100A	90	REPLACEMENT	NO	SEAL LIFE	107491
SNURPER	ITT GRINNELL	2003	N/A	2-PH-HSS 102	85	REPLACED	NO	FUNCTIONAL TEST GROUP A	106701
SNURPER	ITT GRINNELL	2131	N/A	2-PH-HSS 102	85	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106701
SNURPER	ITT GRINNELL	1209	N/A	2-PH-HSS 105E	85	REPLACED	NO	SEAL LIFE	107489
SNURPER	ITT GRINNELL	1750	N/A	2-PH-HSS 105E	90	REPLACEMENT	NO	SEAL LIFE	107489
SNURPER	ITT GRINNELL	1385	N/A	2-PH-HSS 112	85	REPLACED	NO	FUNCTIONAL TEST GROUP A	106700
SNURPER	ITT GRINNELL	1072	N/A	2-PH-HSS 112	90	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106700
SNURPER	ITT GRINNELL	1066	N/A	2-PH-HSS 117	89	REPLACED	NO	FUNCTIONAL TEST GROUP A	106699
SNURPER	ITT GRINNELL	1118	N/A	2-PH-HSS 117	90	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106699
SNURPER	ITT GRINNELL	2038	N/A	2-PH-HSS 700	85	REPLACED	NO	SEAL LIFE	107429
SNURPER	ITT GRINNELL	2087	N/A	2-PH-HSS 700	85	REPLACEMENT	NO	SEAL LIFE	107429
SNURPER	ITT GRINNELL	2077	N/A	2-PH-HSS 702	89	REPLACED	NO	FUNCTIONAL TEST GROUP A	106702
SNURPER	ITT GRINNELL	2023	N/A	2-PH-HSS 702	89	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106702
SNURPER	ITT GRINNELL	2068	N/A	2-PH-HSS 703	85	REPLACED	NO	SEAL LIFE	107428
SNURPER	ITT GRINNELL	2165	N/A	2-PH-HSS 703	90	REPLACEMENT	NO	SEAL LIFE	107428

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

1. Owner VIRGINIA POWER Date SEPTEMBER 29, 1957
Name
5000 DOMINION BLVD GLEN ALLEN, VA 23060 Sheet 1 of 2
Address

2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL, VA, 23117 MMP-P.HSS 1, 2-PT. 79.0, 2-PT. 79.3
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name
PO BOX 402 MINERAL VA 23117 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System CHEMICAL AND VOLUME CONTROL

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 78, 81, 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3, 5B3

6. Identification of Components Repaired or Replaced and Replacement Components (SEE SUPPLEMENTAL SHEET FOR IDENTIFICATION OF 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)
(Table content is crossed out with a large X)							

7. Description of Work REPLACED SNUBBER

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
NONE

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 8 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 THIS NIS-2 COVERS WORK ORDER
Applicable Manufacturer's Data Reports to be attached
NUMBERS 5900107461, 5900107465, 5900106651.

REPLACED TOTAL OF THREE (3) SNUBBERS

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 [Signature] Engr Date Oct 1 19 90
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 MANHATTAN STEEL BOILER I & CO of HARTFORD CT have inspected the components described in this Owner's Report during the period 29 Sept 1990 to 29 Sept 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 555
Inspector's Signature National Board, State, Province, and Endorsements

Date 1 Oct 19 90

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

1. Owner VIRGINIA POWER Name Date SEPTEMBER 29, 1990
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Address Sheet 1 of 2
2. Plant NORTH ANNA POWER STATION Name Unit 2
PO BOX 402 MINERAL, VA 23117 Address MMP-P.H.S.S.-1, 2 PT. 79.0, 2 PT. 79.3 Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL, VA 23117 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 7B, 84, 83(R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3, 583

6. Identification of Components Repaired or Replaced and Replacement Components (SEE SUPPLEMENTAL SHEET FOR IDENTIFICATION OF 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)
(Table content is crossed out with a large X)							

7. Description of Work REPLACED SNUBBER
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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. THIS NIS-2 COVERS WORK ORDER NUMBERS
5900106693, 5900106662, 5900107483, 5900107480
REPLACED TOTAL OF FOUR (4) SNUBBERS.

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 [Signature] Engl Date Oct 1, 19 90
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 VERMONT and employed by Heartland Steam Boiler I & E CO of Heartland VT have inspected the components described in this Owner's Report during the period 29 Sept 1990 to 29 Sept 1990, 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.

William S. Fisher Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 1 Oct 19 90

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

1. Owner VIRGINIA POWER Date SEPTEMBER 11, 1990
Name
5000 DOMINION BLVD GLEN ALLEN, VA 23060 Address Sheet 1 of 1
2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL VA, 23117 Address
WO NO 5900106692, 5900107493 Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name
PO BOX 402 MINERAL VA, 23117 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 78, 81 (R), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 82, 83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINNELL	1219	N/A	2-RC-HSS-637.02	89	REPLACED	NO
SNUBBER	ITT GRINNELL	1642	N/A	2-RC-HSS-637.02	90	REPLACEMENT	NO
SNUBBER	ITT GRINNELL	1097	N/A	2-RC-HSS-639.01	85	REPLACED	NO
SNUBBER	ITT GRINNELL	1702	N/A	2-RC-HSS-639.01	89	REPLACEMENT	NO

7. Description of Work REPLACE SNUBBER

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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 [Signature] Engl Date Sept 12, 19 90
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 Hartford Steam Boiler I & F Co of Hartford CT have inspected the components described in this Owner's Report during the period 1 Sept 1990 to 12 Sept 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions UAS58
Inspector's Signature National Board, State, Province, and Endorsements

Date 12 Sept 19 90

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

1. Owner VIRGINIA POWER Date SEPTEMBER 11, 1990
Name
5000 DOMINION BLVD GLEN ALLEN, VA 23060 Address Sheet 1 of ?
2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL, VA 23117 Address WORK ORDER NO 5900106658, 5900107474
Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name
PO BOX 402 MINERAL, VA 23117 Address Authorization No. N/A
Expiration Date N/A
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 78, 81(E), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINNELL	1331	N/A	2-RC HSS-103	85	REPLACED	NO
SNUBBER	ITT GRINNELL	1715	N/A	2-RC HSS-103	89	REPLACEMENT	NO
SNUBBER	ITT GRINNELL	1027	N/A	2-RC HSS-140B	85	REPLACED	NO
SNUBBER	ITT GRINNELL	1312	N/A	2-RC HSS-140B	89	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
NONE

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 [Signature] Engr Date Sept 12, 19 90
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 HARTFORD Steam Boiler I & E CO of HARTFORD CT have inspected the components described in this Owner's Report during the period 1 Sept 1990 to 12 Sept 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA558
Inspector's Signature National Board, State, Province, and Endorsements

Date 12 Sept 19 90

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

1. Owner VIRGINIA POWER Name Date SEPTEMBER 11, 1990
5000 DOMINION BLVD, GLEN ALLEN, VA 23061 Address Sheet 1 of 1
2. Plant NORTH ANNA POWER STATION Name Unit 2
PO BOX 402 MINERAL VA, 23117 Address W.D. NO 5900107513, 107705 Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL VA, 23117 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System DECAY HEAT RELEASE
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 78, 81 (E), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is B31.7
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINNELL	2157	N/A	2 DHR- HSS-233	85	REPLACED	NO
SNUBBER	ITT GRINNELL	2166	N/A	2 DHR- HSS-233	89	REPLACEMENT	NO
SNUBBER	ITT GRINNELL	1371	N/A	2 DHR- HSS-235	85	REPLACED	NO
SNUBBER	ITT GRINNELL	1616	N/A	2 DHR- HSS-235	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBERS
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
NONE

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 [Signature] Engr Date Sept 12, 1990
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 Hartford Steam Boiler & F&E CO of Hartford CT have inspected the components described in this Owner's Report during the period 1 Sept 1990 to 12 Sept 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions UAS58
Inspector's Signature National Board, State, Province, and Endorsements
Date 12 Sept, 1990

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

1. Owner VIRGINIA POWER Name Date OCTOBER 27, 1990
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Address Sheet 1 of 1
2. Plant NORTH ANNA POWER STATION Name Unit 2
PO BOX 402 MINERAL, VA, 23117 Address MMP-P-HSS-1, 2 PT-79, 0, 2 PT-79 Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL, VA, 23117 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 78, 81, 83(R), 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINELL	1642	N/A	2-RC-HSS-637.02	90	REPLACED	NO
SNUBBER	ITT GRINELL	1078	N/A	2-RC-HSS-637.02	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER FOR ENGINEERING REQUEST PER WORK ORDER NUMBER 5900116770
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 NONE 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 [Signature] Date 10-24, 19 90
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 Marshall Steam Boiler & T Co of Marshall CT have inspected the components described in this Owner's Report during the period 19 Oct 1990 to 19 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commission VT 555
Inspector's Signature National Board, State, Province, and Endorsements
Date 26 Oct, 19 90

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

1. Owner VIRGINIA POWER Name Date OCTOBER 22, 1990
5000 DOMINION BLVD. GLEN ALLEN, VA 23060 Address Sheet 1 of 1
2. Plant NORTH ANNA POWER STATION Name Unit 2
PO BOX 402 MINERAL, VA. 23117 Address MMP-P.HSS-1, 2, PT. 79.0, 2, PT. 79.3 Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL, VA. 23117 Address Authorization No. N/A
 Expiration Date N/A
4. Identification of System: WET LAYOUT
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 78, 81, 83(R) Code Case 115
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, 83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINELL	1392	N/A	2-WT-HSS 408.01	90	REPLACED	NO
SNUBBER	ITT GRINELL	1147	N/A	2-WT-HSS 408.01	90	REPLACEMENT	NO

7. Description of Work: REPLACED SNUBBER PER ENGINEERING REQUEST PER WORK ORDER NUMBER 5900110707
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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 [Signature] Date 10-24, 19 90
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 Wentworth Steam Boiler, I. & L. Co. of Wentworth Ct have inspected the components described in this Owner's Report during the period 19 Oct 1990 to 19 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 26 Oct 19 90

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

1. Owner VIRGINIA POWER Date OCTOBER 22, 1990
Name
5000 DOMINION BLVD, GLEN ALLEN, VA. 23060 Sheet 1 of 1
Address
2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL, VA. 23117 MMP.P.HSS-1, 2.PT.79.0, 2.PT.79.3
Address Repair Organization P/O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name Authorization No. N/A
PO BOX 402 MINERAL, VA. 23117 Expiration Date N/A
Address
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 78, 81, 83(E) Code Case 115
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, 83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITTGRINWELL	1326	N/A	2-RC-HSS 138	90	REPLACED	NO
SNUBBER	ITTGRINWELL	1751	N/A	2-RC-HSS 138	90	REPLACEMENT	NO
SNUBBER	ITTGRINWELL	1169	N/A	2-RC-HSS 467.02	90	REPLACED	NO
SNUBBER	ITTGRINWELL	1368	N/A	2-RC-HSS 467.02	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBERS PER ENGINEERING REQUEST

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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; THESE SNURBERS REMOVED
Applicable Manufacturer's Data Reports to be attached
AND REPLACED PER WORK ORDER NO'S
5900116771 & 5900116772.

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 [Signature] Date 11-24 19 90
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 Vermont and employed by Hartford Steam Boiler & Fitting Co of Hartford CT have inspected the components described in this Owner's Report during the period 19 OCT 1990 to 19 OCT 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions UP 5TK
Inspector's Signature National Board, State, Province, and Endorsements

Date 26 OCT 19 90

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

1. Owner VIRGINIA POWER Name Date OCTOBER 22, 1990
500 DOMINION BLVD GLEN ALLEN, VA 23060 Address Sheet 1 of 1
2. Plant NORTH ANNA POWER STATION Name Unit 2
PO BOX 402 MINERAL, VA. 23117 Address MMP-P-HSS-1, 2 PT. 79.0, 2 PT. 79.3 Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL, VA. 23117 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, 70 Addenda, 78, 81, 83 (R) ¹⁵ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINNEL	1179	N/A	2-QS-HSS 800	90	REPLACED	NO
SNUBBER	ITT GRINNEL	1286	N/A	2-QS-HSS 800	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER PER ENGINEERING REQUEST PER WORK ORDER NUMBER 5900116773
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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 3
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 [Signature] Date 10-24, 19 90
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 Hartford Steam Boiler & Loco
Hartford CT have inspected the components described in this Owner's Report during the period 19 Oct 1990 to 19 Oct 1990, 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.

William S. [Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 26 Oct 19 90

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

1. Owner VIRGINIA POWER Name Date OCTOBER 22, 1990

5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Address Sheet 1 of 1

2. Plant NORTH ANNA POWER STATION Name Unit 2

PO BOX 402 MINERAL, VA 23117 Address MMP.P.HSS.1,2.PT.79.0,2.PT.79.3 Repair Organization P.C. No., Job No., etc.

3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A

PO BOX 402 MINERAL, VA 23117 Address Authorization No. N/A
Expiration Date N/A

4. Identification of System REACTOR COOLANT

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 78,81,83(R)15 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83,583

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>SNUBBER</u>	<u>ITTGRINNEL</u>	<u>1157</u>	<u>N/A</u>	<u>2-RC-HSS 444.03</u>	<u>87</u>	<u>REPLACED</u>	<u>NO</u>
<u>SNUBBER</u>	<u>ITTGRINNEL</u>	<u>1422</u>	<u>N/A</u>	<u>2-RC-HSS 444.03</u>	<u>90</u>	<u>REPLACEMENT</u>	<u>NO</u>

7. Description of Work REPLACED SNUBBER PER ENGINEERING REQUEST PER WORK ORDER NUMBER 5900117812.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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 [Signature] Date 10-24, 19 90
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 Harland Steam Boiler F & I CO of Spotswood Pt. have inspected the components described in this Owner's Report during the period 19 Oct 1990 to 19 Oct 1990, 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.

William E. [Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 21 Oct 19 90

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

1. Owner VIRGINIA POWER Date OCTOBER 20, 1990
Name
5000 DOMINION BLVD GLEN ALLEN VA 23060 Sheet 1 of 1
Address

2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL, VA. 23117 MMP-P-HSS-1, 2 PT. 79.0, 2 PT. 79.3
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name
PO BOX 402 MINERAL, VA. 23117 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System NET LAYUP

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 78, 81, 83(R) ¹¹⁵ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 583

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITT GRINNELL	1341	N/A	2-WT HSS 405.02	89	REPLACED	NO
SNUBBER	ITT GRINNELL	1156	N/A	2-WT HSS 405.02	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER FOR FUNCT. TEST GROUP "A" PER WORK ORDER NO 5900106728

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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 F 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 [Signature] Date 10-24, 19 90
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 Maritime Steam Boiler & EC Co of Manassas VA have inspected the components described in this Owner's Report during the period 4 Oct 1990 to 18 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 26 Oct 19 90

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

1. Owner VIRGINIA POWER Date OCTOBER 19, 1990
Name
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Sheet 1 of 1
Address
2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402, MINERAL, VA 23117 MMP-D-HSS-1, 2-PT-79.0, 2-PT-79.3
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name Authorization No. N/A
PO BOX 402, MINERAL, VA 23117 Expiration Date N/A
Address
4. Identification of System SAFETY INJECTION
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 78, 81, 83 (R), Code Case 115
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3, 5B3
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	ITTGRINNELL	2074	N/A	2-SI-HSS 100A	85	REPLACED	NO
SNUBBER	ITTGRINNELL	2026	N/A	2-SI-HSS 100A	90	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER FOR SEAL LIFE PER W.O. # 109931

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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 [Signature] Date 10-24, 19 90
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 CONNECTICUT and employed by Hartford Steam Boiler & FCO. of Hartford CT have inspected the components described in this Owner's Report during the period 19 OCT 1990 to 19 OCT 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Inspector's Signature Commissions 14558 National Board, State, Province, and Endorsements

Date 26 OCT 19 90

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

1. Owner VIRGINIA POWER Name Date OCTOBER 20, 1990
5000 DOMINION BLVD, GLEN ALLEN, VA. 23060 Address Sheet 1 of 4

2. Plant NORTH ANNA POWER STATION Name Unit 2
PO BOX 402 MINERAL, VA. 23117 Address MMP-P-H55-1, 2 PT. 79.0, 2 PT. 79.3 Repair Organization P.O. No., Job No., etc.

3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL, VA. 23117 Address Authorization No. N/A
Expiration Date N/A

4. Identification of System MAIN STEAM

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 78, 81, 83, 85 Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83

6. Identification of Components Repaired or Replaced and Replacement Components (SEE SUPPLEMENTAL SHEETS FOR IDENTIFICATION OF REPLACED & 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)
 							
 							
 							
 							
 							

7. Description of Work REPLACED SNUBBERS

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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. THIS NIS-2 COVERS WORK ORDERS NUMBERS: 5900110856,
Applicable Manufacturer's Data Reports to be attached
5900110847, 5900110846, 5900106710, 5900110845, 5900106718, 5900107456,
5900110855, 5900110824, 5900110858, 5900110832, 5900110833, 5900110834, 5900110835,
5900110841, 5900110839, 5900110840, 5900110842; REPLACED TOTAL OF EIGHTEEN
(18) SNUBBERS.

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 [Signature] Date 10-24 19 90
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 Hartford Steam Boiler & Engine Co of
Hartford CT have inspected the components described
in this Owner's Report during the period 20 Oct 1990 to 20 Oct 1990, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements
Date 26 Oct 19 90

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

1. Owner VIRGINIA POWER Name Date OCTOBER 20, 1990
5000 DOMINION BLDG, GLEN ALLEN, VA 23060 Address Sheet 2 of 4

2. Plant NORTH ANNA POWER STATION Name Unit 2
PO BOX 402, MINERAL, VA 23117 Address MMP-P.HSS-1, 2-PT.79.0, 2-PT.79.3 Repair Organization P.O. No, Job No, etc.

3. Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL, VA 23117 Address Authorization No. N/A
 Expiration Date N/A

4. Identification of system MAIN STEAM

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, TB81, B3(B) Code Case 115
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3.583

6. Identification of Components Repaired or Replaced or Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identifications	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	REASON FOR REPLACEMENT	WORK ORDER NUMBER
SNUBBER	ITT GRINNELL	4032	N/A	2-SHP-HSS 023A	87	REPLACED	NO	SEAL LIFE	110856
SNUBBER	ITT GRINNELL	4010	N/A	2-SHP-HSS 023A	89	REPLACEMENT	NO	SEAL LIFE	110856
SNUBBER	ITT GRINNELL	4034	N/A	2-SHP-HSS 030A	87	REPLACED	NO	SEAL LIFE	110847
SNUBBER	ITT GRINNELL	4012	N/A	2-SHP-HSS 030A	89	REPLACEMENT	NO	SEAL LIFE	110847
SNUBBER	ITT GRINNELL	4037	N/A	2-SHP-HSS 030B	87	REPLACED	NO	SEAL LIFE	110816
SNUBBER	ITT GRINNELL	4016	N/A	2-SHP-HSS 030B	89	REPLACEMENT	NO	SEAL LIFE	110846
SNUBBER	ITT GRINNELL	4035	N/A	2-SHP-HSS 038A	87	REPLACED	NO	FUNCTIONAL TEST GROUP A	106710
SNUBBER	ITT GRINNELL	4011	N/A	2-SHP-HSS 038A	89	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106710
SNUBBER	ITT GRINNELL	4033	N/A	2-SHP-HSS 038B	87	REPLACED	NO	SEAL LIFE	110845
SNUBBER	ITT GRINNELL	4009	N/A	2-SHP-HSS 038B	90	REPLACEMENT	NO	SEAL LIFE	110845
SNUBBER	ITT GRINNELL	8008	N/A	2-SHP-HSS 208	84	REPLACED	NO	FUNCTIONAL TEST GROUP A	106718
SNUBBER	ITT GRINNELL	8003	N/A	2-SHP-HSS 208	90	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106718
SNUBBER	ITT GRINNELL	6001	N/A	2-SHP-HSS 209A	85	REPLACED	NO	SEAL LIFE	107456
SNUBBER	ITT GRINNELL	6013	N/A	2-SHP-HSS 209A	90	REPLACEMENT	NO	SEAL LIFE	107456
SNUBBER	ITT GRINNELL	6026	N/A	2-SHP-HSS 212A	86	REPLACED	NO	SEAL LIFE	110855
SNUBBER	ITT GRINNELL	6031	N/A	2-SHP-HSS 212A	89	REPLACEMENT	NO	SEAL LIFE	110855

SUPPLEMENTAL SHEET

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

1 Owner VIRGINIA POWER Name Date OCTOBER 2, 1990

5000 DOMINION BLVD GLEN ALLEN, VA 23060 Address Sheet 3 of 4

2 Plant NORTH ANNA POWER STATION Name Unit 2

PO BOX 402 MINERAL, VA 23117 Address MMP-P-HSS-1, 2-PT-79.0, 2-PT-79.3 Repair Organization P.O. No., Job No., etc.

3 Work performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A

PO BOX 402 MINERAL, VA 23117 Address Authorization No. N/A Expiration Date N/A

4 Identification of system MAIN STEAM

5 (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 78, 81, 83, (P) 115 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3, 583

6 Identification of Components Repaired or Replaced or 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/No)	REASON FOR REPLACEMENT	WORK ORDER NUMBER
SNURBER	ITTGRINNEL	6010	N/A	2-SHP-HSS 223A	86	REPLACED	NO	SEAL LIFE	110824
SNURBER	ITTGRINNEL	6011	N/A	2-SHP-HSS 223A	90	REPLACEMENT	NO	SEAL LIFE	110824
SNURBER	ITTGRINNEL	5027	N/A	2-SHP-HSS 225	86	REPLACED	NO	SEAL LIFE	110858
SNURBER	ITTGRINNEL	5053	N/A	2-SHP-HSS 225	89	REPLACEMENT	NO	SEAL LIFE	110858
SNURBER	ITTGRINNEL	1132	N/A	2-SHP-HSS 241	86	REPLACED	NO	SEAL LIFE	110832
SNURBER	ITTGRINNEL	1574	N/A	2-SHP-HSS 241	89	REPLACEMENT	NO	SEAL LIFE	110832
SNURBER	ITTGRINNEL	1376	N/A	2-SHP-HSS 243	87	REPLACED	NO	SEAL LIFE	110833
SNURBER	ITTGRINNEL	1352	N/A	2-SHP-HSS 243	89	REPLACEMENT	NO	SEAL LIFE	110833
SNURBER	ITTGRINNEL	1568	N/A	2-SHP-HSS 244	86	REPLACED	NO	SEAL LIFE	110834
SNURBER	ITTGRINNEL	1218	N/A	2-SHP-HSS 244	90	REPLACEMENT	NO	SEAL LIFE	110834
SNURBER	ITTGRINNEL	1297	N/A	2-SHP-HSS 462 01	86	REPLACED	NO	SEAL LIFE	110835
SNURBER	ITTGRINNEL	1333	N/A	2-SHP-HSS 462 01	90	REPLACEMENT	NO	SEAL LIFE	110835
SNURBER	ITTGRINNEL	1112	N/A	2-SHP-HSS 563 04	86	REPLACED	NO	SEAL LIFE	110841
SNURBER	ITTGRINNEL	1580	N/A	2-SHP-HSS 563 04	90	REPLACEMENT	NO	SEAL LIFE	110841
SNURBER	ITTGRINNEL	1229	N/A	2-SHP-HSS 563 03A	87	REPLACED	NO	SEAL LIFE	110839
SNURBER	ITTGRINNEL	1316	N/A	2-SHP-HSS 563 03A	90	REPLACEMENT	NO	SEAL LIFE	110839

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

1. Owner VIRGINIA POWER Date OCTOBER 22, 1990
Name
5000 DOMINION BLVD GLEN ALLEN, VA 23060 Sheet 1 of 4
Address

2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL, VA 23117 MMP-P-1155-1,2-PT-79 0,2-PT-79 3
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name
PO BOX 402 MINERAL, VA 23117 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System REACTOR COOLANT

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda 78, 81, 83(R) 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83

6. Identification of Components Repaired or Replaced and Replacement Components SEE SUPPLEMENTAL SHEETS FOR IDENTIFICATION OF REPLACED & 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)
(Table content is crossed out with a large X)							

7. Description of Work REPLACED SNUBBERS

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE Other Pressure _____ psi Test Temp. _____ °F

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

D. Remarks ASME CLASS 1. THIS NIS-2 COVERS WORK ORDER

Applicable Manufacturer's Data Reports to be attached

NUMBERS 5900106655, 5900107472, 5900107508, 5900107507, 5900107510,
5900106697, 5900107477, 5900106661, 5900107479, 5900106663, 5900106665, 5900106666,
5900106686, 5900106691, 590010785, 5900110784, 5900110485, 5900106688, 5900107487,
5900106687, 5900107486, 5900106689, 5900106690. REPLACES TOTAL OF
TWENTY THREE (23) SNURBERS.

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 [Signature] Date 10-24, 19 90
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 Illinois and employed by Method Steam Boilers of
LAHAINA CT have inspected the components described
in this Owner's Report during the period 22 Oct 1990 to 22 Oct 1990, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NAIIB
Inspector's Signature National Board, State, Province, and Endorsements

Date 26 Oct 19 90

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

1. Owner VIRGINIA POWER Date OCTOBER 22 1997
 Name
5000 DOMINION BLVD, GLEN ALLEN, VA 23060 Sheet 2 of 4
 Address

2. Plant NORTH ANNA POWER STATION Unit 2
 Name
PO BOX 402, MINERAL, VA. 23117 MIRP-P-HSS-1, 2 PT 79.0, 2 PT 79.3
 Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
 Name
PO BOX 402, MINERAL, VA. 23117 Authorization No. N/A
 Address Expiration Date N/A

4. Identification of system REACTOR COOLANT

5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 788, 834 ¹¹⁵ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83

6. Identification of Components Repaired or Replaced or 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)	REASON FOR REPLACEMENT	WORK ORDER NUMBER
SNURBER	ITGRINWELL	1669	N/A	2-RC-HSS 101	85	REPLACED	NO	FOR FUNCTIONAL TEST GROUP A	106655
SNURBER	ITGRINWELL	1478	N/A	2-RC-HSS 101	90	REPLACEMENT	NO	FOR FUNCTIONAL TEST GROUP A	106655
SNURBER	ITGRINWELL	1631	N/A	2-RC-HSS 105	85	REPLACED	NO	FOR SEAL LIFE	107472
SNURBER	ITGRINWELL	1532	N/A	2-RC-HSS 105	90	REPLACEMENT	NO	FOR SEAL LIFE	107472
SNURBER	ITGRINWELL	2110	N/A	2-RC-HSS 410.01	85	REPLACED	NO	FOR SEAL LIFE	107508
SNURBER	ITGRINWELL	2080	N/A	2-RC-HSS 410.01	90	REPLACEMENT	NO	FOR SEAL LIFE	107508
SNURBER	ITGRINWELL	2045	N/A	2-RC-HSS 410.03	85	REPLACED	NO	FOR SEAL LIFE	107507
SNURBER	ITGRINWELL	2093	N/A	2-RC-HSS 410.03	86	REPLACEMENT	NO	FOR SEAL LIFE	107507
SNURBER	ITGRINWELL	2037	N/A	2-RC-HSS 412.07	85	REPLACED	NO	FOR SEAL LIFE	107510
SNURBER	ITGRINWELL	2016	N/A	2-RC-HSS 412.07	90	REPLACEMENT	NO	FOR SEAL LIFE	107510
SNURBER	ITGRINWELL	3076	N/A	2-RC-HSS 414.00	89	REPLACED	NO	FUNCTIONAL TEST GROUP A	106697
SNURBER	ITGRINWELL	3048	N/A	2-RC-HSS 414.00	89	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106697
SNURBER	ITGRINWELL	1310	N/A	2-RC-HSS 449.02	85	REPLACED	NO	FOR SEAL LIFE	107477
SNURBER	ITGRINWELL	1432	N/A	2-RC-HSS 449.02	89	REPLACEMENT	NO	FOR SEAL LIFE	107477
SNURBER	ITGRINWELL	1036	N/A	2-RC-HSS 453.31	89	REPLACED	NO	FUNCTIONAL TEST GROUP A	106661
SNURBER	ITGRINWELL	1281	N/A	2-RC-HSS 453.31	90	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106661

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

- 1 Owner VIRGINIA POWER Name Date OCTOBER 22, 1990
5000 DOMINION BLD. GEN ALLEN, VA 23060 Address Sheet 3 of 4
- 2 Plant NORTH ANNA POWER STATION Name Unit 2
PO BOX 402, MINERAL, VA, 23117 Address MMP-P-HSS-1, 2-PT-79.0, 2-PT-79.3
 Repair Organization P.O. No., Job No., etc.
- 3 Work Performed by VIRGINIA POWER Name Type Code Symbol Stamp N/A
PO BOX 402 MINERAL, VA, 23117 Address Authorization No. N/A
 Expiration Date N/A
- 4 Identification of system REACTOR COOLANT
- 5 (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 78,81,83(E)¹¹⁵ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83,583
- 6 Identification of Components Repaired or Replaced or 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)	REASON FOR REPLACEMENT	WORK ORDER NUMBER
SNURBER	ITTGRINNELL	1228	N/A	2-RC-HSS 458.01	85	REPLACED	NO	SEAL LIFE	107479
SNURBER	ITTGRINNELL	1689	N/A	2-RC-HSS 458.01	89	REPLACEMENT	NO	SEAL LIFE	107479
SNURBER	ITTGRINNELL	1335	N/A	2-RC-HSS 465.01	89	REPLACED	NO	FUNCTIONAL TEST GROUP A	106663
SNURBER	ITTGRINNELL	1358	N/A	2-RC-HSS 465.01	90	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106663
SNURBER	ITTGRINNELL	1012	N/A	2-RC-HSS 516.05	89	REPLACED	NO	PREVIOUS FAILURE	106665
SNURBER	ITTGRINNELL	1150	N/A	2-RC-HSS 516.05	90	REPLACEMENT	NO	PREVIOUS FAILURE	106665
SNURBER	ITTGRINNELL	1603	N/A	2-RC-HSS 516.07	89	REPLACED	NO	FUNCTIONAL TEST GROUP A	106666
SNURBER	ITTGRINNELL	1638	N/A	2-RC-HSS 516.07	90	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106666
SNURBER	ITTGRINNELL	1320	N/A	2-RC-HSS 531.02	87	REPLACED	NO	FUNCTIONAL TEST GROUP A	106686
SNURBER	ITTGRINNELL	1653	N/A	2-RC-HSS 531.02	90	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106686
SNURBER	ITTGRINNELL	1731	N/A	2-RC-HSS 546.02	89	REPLACED	NO	FUNCTIONAL TEST GROUP A	106691
SNURBER	ITTGRINNELL	1038	N/A	2-RC-HSS 546.02	90	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106691
SNURBER	ITTGRINNELL	1276	N/A	2-RC-HSS 547.02	86	REPLACED	NO	PREVIOUS FAIL	110785
SNURBER	ITTGRINNELL	1658	N/A	2-RC-HSS 547.02	90	REPLACEMENT	NO	PREVIOUS FAILURE	110785
SNURBER	ITTGRINNELL	1029	N/A	2-RC-HSS 547.03	85	REPLACED	NO	SEAL LIFE	110784
SNURBER	ITTGRINNELL	1419	N/A	2-RC-HSS 547.03	90	REPLACEMENT	NO	SEAL LIFE	110784

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

1 Owner VIRGINIA POWER Date OCTOBER 22, 1990
Name
5000 DOMINION BLVD GLEN ALLEN, VA. 23060 Sheet 4 of 4
Address

2 Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL, VA. 23117 MMP-P-HSS-1,2-PT-79.0,2-PT-79.3
Address Repair Organization P.O. No., Job No., etc.

3 Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name Authorization No. N/A
PO BOX 402 MINERAL, VA. 23117 Expiration Date N/A
Address

4 Identification of system REACTOR COOLANT

5 (a) Applicable Construction Code B31.7 19 69 Edition, 70 Addenda, 78,81,83(R) ¹¹⁵ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 83,583

6 Identification of Components Repaired or Replaced or 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)	REASON FOR REPLACEMENT	WORK ORDER NUMBER
SLURBER	ITTGRINNELL	1372	N/A	2-RC-HSS 547.05	85	REPLACED	NO	SEAL LIFE	107485
SLURBER	ITTGRINNELL	1003	N/A	2-RC-HSS 547.05	90	REPLACEMENT	NO	SEAL LIFE	107485
SLURBER	ITTGRINNELL	1457	N/A	2-RC-HSS 553.02	85	REPLACED	NO	FUNCTIONAL TEST GROUP A	106688
SLURBER	ITTGRINNELL	1000	N/A	2-RC-HSS 553.02	90	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106688
SLURBER	ITTGRINNELL	1383	N/A	2-RC-HSS 615.04	85	REPLACED	NO	SEAL LIFE	107487
SLURBER	ITTGRINNELL	1456	N/A	2-RC-HSS 615.04	90	REPLACEMENT	NO	SEAL LIFE	107487
SLURBER	ITTGRINNELL	1303	N/A	2-RC-HSS 616.02	89	REPLACED	NO	FUNCTIONAL TEST GROUP A	106687
SLURBER	ITTGRINNELL	1525	N/A	2-RC-HSS 616.02	90	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106687
SLURBER	ITTGRINNELL	1148	N/A	2-RC-HSS 618.02	85	REPLACED	NO	SEAL LIFE	107486
SLURBER	ITTGRINNELL	1129	N/A	2-RC-HSS 618.02	90	REPLACEMENT	NO	SEAL LIFE	107486
SLURBER	ITTGRINNELL	1136	N/A	2-RC-HSS 619.04	89	REPLACED	NO	FUNCTIONAL TEST GROUP A	106689
SLURBER	ITTGRINNELL	1343	N/A	2-RC-HSS 619.04	89	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106689
SLURBER	ITTGRINNELL	1661	N/A	2-RC-HSS 620.25	89	REPLACED	NO	FUNCTIONAL TEST GROUP A	106690
SLURBER	ITTGRINNELL	1686	N/A	2-RC-HSS 623.25	90	REPLACEMENT	NO	FUNCTIONAL TEST GROUP A	106690

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

1. Owner VIRGINIA POWER Date OCTOBER 26, 1990
Name
5000 DOMINION BLVD, GLENN, ALLEN VA 23060 Sheet 1 of 1
Address
2. Plant NORTH ANNA POWER STATION Unit 2
Name
PO BOX 402 MINERAL VA 23117 MMP-P-HSS 1, 2 PT-79.0, 2 PT-79.3
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by VIRGINIA POWER Type Code Symbol Stamp N/A
Name Authorization No. N/A
PO BOX 402 MINERAL, VA 23117 Expiration Date N/A
Address
4. Identification of System SAFETY INJECTION
5. (a) Applicable Construction Code B31.7 19 69 Edition, 70 Add'de, 78, 81, 83, 85 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83

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)
SNURBER	ITT GRINNEU	2062	N/A	2-SI-HSS 105A	87	REPLACED	No
SNURBER	ITT GRINNEU	2169	N/A	2-SI-HSS 105A	90	REPLACEMENT	No

7. Description of Work REPLACED SNURBER PER ENGINEERING REQUEST PER WORK ORDER NUMBER 5900116294.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
NONE 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 [Signature] Date 10-26, 19 90
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 Haithrud Steam Boiler & I Co. of Haithrud VA have inspected the components described in this Owner's Report during the period 26 Oct 1990 to 26 Oct 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 27 Oct 19 90

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 CO. Date 12-3-90
Name
5000 DOMINION BLVD., GLEN ALLEN, VA. 23060 Sheet 1 of 1
Address
2. Plant NORTH ANNA POWER STATION Unit 2
Name
P.O. Box 402, MINERAL, VIRGINIA, 23117 DCP 89-47-2
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by FLUOR DANIEL Type Code Symbol Stamp N/A
Name
DANIEL BLDG., GREENVILLE, S.C., 29601 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System CHEMICAL AND VOLUME CONTROL SYSTEM
5. (a) Applicable Construction Code USAS B31.7 19 69 Edition, W70 Addenda 98, 81, 83(R), 115 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, 83B
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" PIPE	FLUOR DANIEL	N/A	N/A	2"-CH-897-153A-Q3	1990	REPLACEMENT	NO
2" PIPE	FLUOR DANIEL	N/A	N/A	2"-CH-900-153A-Q3	1990	REPLACEMENT	NO
2" FLANGE	N/A	N/A	N/A	2"-CH-897-153A-Q3	N/A	REPLACED STUDS & NUTS	NO
2" FLANGE	N/A	N/A	N/A	2"-CH-900-153A-Q3	N/A	REPLACED STUDS & NUTS	NO

7. Description of Work ROTATED VALVES 2-CH-84 AND 2-CH-86
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 95 psi Test Temp. 65 °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, INSTALLED 2" COUPLING ON LINES 2"-CH-897-153A-Q3
AND 2"-CH-900-153A-Q3 TO ROTATE VALVES 2-CH-84 AND 2-CH-86
RESPECTIVELY AND REPLACED FASTENERS ON ASSOCIATED FLANGES

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 [Signature] Date Dec 5, 19 90
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. & T. CO of Hartwood CT have inspected the components described in the Owner's Report during the period 22 June 1990 to 26 Sept 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commission: VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 17 Dec 19 90

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 Co Date October 29, 1990
Name
5000 Dominion Blvd Glen Allen, VA 23060 Sheet 1 of 1
Address

2. Plant North Anna Power Station Unit 2
Name
P.O. Box 402 Mineral, VA 23117 DCP 89-50
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Westinghouse Electric Corp. Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 355 Pittsburgh, PA 15230 Expiration Date N/A
Address

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code B31.7 19 69 Edition, W 70 Addenda 78, 81, 83, 84, 115 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 583

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>Pipe</u>	<u>Southwest Fab</u>	<u>0287</u>	<u>N/A</u>	<u>29"RC-404</u>	<u>1974</u>	<u>Repaired</u>	<u>No</u>

7. Description of Work Machined flat surface on pipe exterior for attachment of ultrasonic level transducer.

8. Tests Conducted: Hydraulic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
None

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

DR 90-1605 was written for material traceability discrepancy involving dye used for PT exams. The final resolution to DR 90-1605 will be implemented prior to the end of the next Unit #2 refueling outage scheduled for 1992. At Hamill 1-9-91

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 Anthony W. Fasso MGR NSD MECHANICAL Date 11-2 19 90
Owner or Owner's Designee, Title PROJECTS

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 CO. of Hartford Ct have inspected the components described in this Owner's Report during the period 9 Sept 1990 to Sept 17 1990, 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.

William E. Kuhn Commissions VA 558
Inspector's Signature National Board, State, Province, and Endorsements

Date 9 Jan 19 91

APPENDIX C

ATTACHMENT III
Page 134 of 135

FORM NP-1; DATA REPORT FOR NUCLEAR PIPING
(As Required by the Provisions of the USAS B31.7 Code Rules)
SOUTHWEST FABRICATING & WELDING CO., INC.

- 1. Manufactured by HOUSTON, TEXAS Order No. 9392-VGB
(Name and Address of Fabricator)
- 2. Manufactured for Westinghouse Nuclear Energy Systems,
Pittsburgh, Penn. Order No. 546-080116871-08
(Name and Address)
- 3. Owner Virginia Electric & Power Co. 4. Location Mineral, Virginia
- 5. Piping System Name/Number EC Piping Hot Legs, Rev. No. 0287
(Subloop Drawing No. or Sketch) Proposed by Southwest Fab. & Weld. Co., Inc.
- 6. Design Conditions of Piping psi °F Specified by
(Pressure) (Temperature) (Name of Co. & Rep.)
- 7. The Design Complies with USAS B31.7 Chapter II, Class II II III, B31.7B (1971 Addenda)
(circle one)

- (a) Design Information on file as N/A
- (b) Design Specification certified by Howard S. Jenkins Penn. PE-0042781
Prof. Eng. State Reg. No.
- (c) Stress Analysis Report on file as N/A
- (d) Stress Analysis Report certified by N/A
Prof. Eng. State Reg. No.

8. The Materials comply with USAS B31.7, Chapter I-III Chapter 3-III; Chapter 3-III (circle one)

	Mark No.	L.P.S.	Manufacturer	Material Manufacturer
(a) Piping				
1.	VGB-Loop "2-1"	29" I.D.	U.S. Pipe & Foundry Co.	N/A
2.				
3.				
4.				
(b) Fittings				
1.	ditto	6" Sch. 160 Wds. on 29" ID Bdr.	SPWACO	N/A
2.	ditto	3/4" BUNN 5/8 Welf Coll.	KETRING PRODUCTS	N/A
3.	ditto	3/4" Saddle SCORP	KETRING PRODUCTS	N/A
4.				
(c) Flanges				
1.				
2.				
(d) Special Components				
1.				
2.				
3.				
4.				

9. The Fabrication and Inspection complies with USAS B31.7, Chapters 1-V and 1-VI 2-V and 2-VI 3-V and 3-VI (circle one)

- (a) Number of special pieces 1 Number of Butt Welds 0
- (b) Shop Hydrostatic Test None psi
- (c) Certificate of Authorization No. 629

To certify the statements of items Nos. 8 and 9 in this data report to be correct.

Date 3-28-74 Signed Southwest Fab. & Weld. Co. Thomas C. Roper
(Fabricator) (Q. C. Representative)

FORM NP-1 (cont.)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of TEXAS and employed by Hartford Steam Boiler Inspection & Insurance Company of Hartford, Connecticut have inspected the piping described in this data report on 3-23-74 of 19, and state that to the best of my knowledge and belief, the manufacturer has constructed this piping in accordance with the applicable sections of the USAS B31.7 Code for Nuclear Power Piping.

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

Date March 23, 1974

R. D. Golden
Inspector

Commissions Texas 18

(State and No.)

16. Description of Field Erection and Inspection

(a)	Mark No.	I.P.S.	Number of Spool Pieces	Number of Butt Welds
1.				
2.				
3.				
4.				

(b) Field Hydrostatic Test _____ psi

(c) Certificate of Authorization No. _____

We certify that the field erection and inspection as described above complies with USAS B31.7, Chapters 1-V and 1-VI; 2-V and 2-VI; 3-V and 3-VI (circle one)

Date _____ Signed _____ By _____
(Inspector) (Q. C. Representative)

Our Certificate of Authorization expires _____

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of _____ and employed by _____ of _____ have compared the statements in this data report with the ~~statements~~ statements in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer and/or assembler has constructed and assembled this piping in accordance with the applicable sections of the USAS B31.7 Code for Nuclear Power Piping. The ~~statements~~ statements piping was inspected and subjected to a hydrostatic test of _____ psi.

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

Date _____ 19 _____

(Inspector)

Commissions _____

(State and No.)

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