

NUSCO
IN-SERVICE INSPECTION REPORT
CLASS 1, 2, SYSTEMS
AND
IWF - SUPPORTS
MILLSTONE NUCLEAR POWER STATION
UNIT 2
WATERFORD CONNECTICUT 06385

OWNER:

Northeast Utilities Energy Company
P. O. Box 270
Hartford Connecticut 06101
Commercial Service Date:
December 26, 1975

Report Date: March 1993

Prepared By: L. D. Baird

L. D. Baird
NUSCO ISI Coordinator

Reviewed By: R. J. Fuller

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NUSCO ISI Coordinator

Approved By: R. T. Blanchard

R. T. Blanchard
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SECTION 1

TABLE OF CONTENTS

NUSCO

TABLE OF CONTENTS

| Section | Title |
|---------|---|
| 1 | Table of Contents |
| 2 | Owner's Data Report NIS-1 |
| 3 | Abbreviations and Acronyms |
| 4 | Introduction |
| 5 | Procedures and Personnel Qualifications |
| 6 | Equipment and Material List |
| 7 | Conditions Noted |
| 8 | Class 1 Examination Results |
| 9 | Class 2 Examination Results |
| 10 | IWF Examination Results |
| 11 | Corrective Measures Recommended and Taken |

SECTION 2

OWNER'S DATA REPORT NIS-1

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Northeast Nuclear Energy Company, P.O. Box 270, Hartford, CT 06141
(Name and Address of Owner)
2. Plant Millstone Nuclear Power Station, P.O. Box 128, Waterford, CT 06385
(Name and Address of Plant)
3. Plant Unit #2 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 12/26/75 6. National Board Number for Unit 20914
7. Components Inspected

| Component or Appurtenance | Manufacturer or Installer | Manufacturer or Installer Serial No. | State or Province No. | National Board No. |
|----------------------------|---------------------------|--------------------------------------|-----------------------|--------------------|
| New SG #1 Class 1 Welds | B&W--Fluor | 761201 | N/A | 123 |
| New SG #1 Class 2 Welds | B&W--Fluor | 761201 | N/A | 123 |
| New SG #2 Class 1 Welds | B&W--Fluor | 761202 | N/A | 124 |
| RV Internal Exam | M--CE | 67110 | N/A | 20914 |
| Prz. Noz. Welds | M--CE | 67605 | N/A | 20918 |
| New RCS Welds CI-1 | Fluor | N/A | N/A | N/A |
| Piping Welds Class 1 | M--Bechtel | N/A | N/A | N/A |
| Piping Welds Class 2 | M--Bechtel | N/A | N/A | N/A |
| New Class 2 Piping Welds | Fluor | N/A | N/A | N/A |
| Class 1 & 2 Bolting | Various | N/A | N/A | N/A |
| JWF Supports | Various | N/A | N/A | N/A |
| RCP "A" Welds | M--Byron--Jackson | 681-N-0449 | N/A | N/A |
| Class 2/3 CMT Pens | Various | N/A | N/A | N/A |
| | | | | |
| | | | | |
| | | | | |

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 data 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 1/4/91 to 1/24/93 9. Inspection Interval from 12/26/85 to 12/26/95
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Sections 8, 9, and 10 of the attached report for Class 1, Class 2 and IWF support examination results, respectively.
11. Abstract of Conditions Noted.
See Section 7 of the attached report.
12. Abstract of Corrective Measures Recommended and Taken
See Section 11 of the attached report.

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.

Date April 14 19 93 Signed Northeast Nuclear Energy Co. By PT Blanchard Jr
Owner

Certificate of Authorization No. (if applicable) - NA - Expiration Date - NA -

CERTIFICATE OF INSERVICE 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 CONNECTICUT and employed by THE HFD STM BLR I&ICo of HARTFORD, CT have inspected the components described in this Owners' Data Report during the period 04 JANUARY '91 to 24 JANUARY '93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data 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 Owners' 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 14 APRIL 19 93
ELIZABETH YORK Elizabeth York Commissions CT 1137 NB 9384
Inspector's Signature National Board, State, Province and No.

1. Owner: Northeast Nuclear Energy Company, P.O. Box 270, Hartford, CT 06141
(Name and Address of Owner)
2. Plant: Millstone Nuclear Power Station, P.O. Box 128, Waterford, CT 06385
(Name and Address of Plant)
3. Plant Unit: 2 4. Owner Certificate of Authorization (if required): N/A
5. Commercial Service Date: 12/26/75 6. National Board Number for Unit: 20914

SECTION 3

ABBREVIATIONS AND ACRONYMS

ABBREVIATIONS AND ACRONYMS

| | |
|------------|---|
| 81W | - ASME Section XI, Winter 1981 Addenda |
| ANII | - Authorized Nuclear In-Service Inspector |
| AR | - ANII Review |
| Cal. Block | - UT Calibration Block |
| CEDM | - Control Element Drive Mechanism |
| ISI | - In-Service Inspection per ASME Section XI |
| RFO #11 | - Refueling Outage #11 |
| LP | - Liquid Penetrant |
| MSGRP | - Millstone Steam Generator Replacement Project |
| MT | - Magnetic Particle Examination |
| MP | - Magnetic Particle |
| MP-2 | - Millstone Point Unit #2 |
| MP-3 | - Millstone Point Unit #3 |
| NU | - Northeast Utilities |
| NUSCO | - Northeast Utilities Service Company |
| PR | - Plant Reviewer |
| PT | - Liquid Penetrant Testing |
| UT | - Ultrasonic Testing |
| VT | - Visual Examination |

SECTION 4

INTRODUCTION

INTRODUCTION

1. During the Millstone Unit 2, Refueling Outage #11, both steam generators were replaced. The new generator subassemblies were manufactured by Babcock and Wilcox and installed by Fluor Daniels. The required preservice examinations were conducted by Babcock and Wilcox, Fluor Daniels, Abb/Amdata and Northeast Utilities Service Company.
2. Volumetric, surface and visual examinations were performed as required by Section XI of the ASME BOILER and Pressure Vessel Code, 1980 Edition, including the Winter 1981 Addenda.
3. The above examinations were conducted during:
 - a mid-cycle shut down in 1991. We examined several Category B-G-2, sets of bolting for the steam generator and pressurizer manways. We also examined several Class 3/2, Containment Penetration welds.
 - between January 1992 and the start of RFO #11, in May, the majority of the new steam generators Class 1, preservice examinations were performed.
 - from May through January 1993, ROF #11, ISI exams, preservice MSGRP Class 1, Class 2, and IWF support exams were completed.
4. All records, examination data sheets, personnel certificates, equipment, and material certificates for the examinations performed are on file at the Millstone Nuclear Power Station Unit 2.
5. Several items listed in Sections 8, 9, and 10 of this report are creditable items to the Second Period of the Second Interval. They are identified by "Note 1."
6. Since the refueling outage ran over into the early months of the Third Period, several items are also creditable to that Period. They are also identified in Sections 8, 9, and 10, of this report by "Note 2."
7. Preservice examinations will also be identified by "Note 3" or a specific note pertaining to the particular item listed in Sections 8, 9, or 10 of this report.
8. Reactor coolant pump "A," was disassembled during this outage. We invoked Code Case N-481, and performed a visual examination of the pump casing welds and a internal remote visual examination of the accessible surfaces of the pump casing. The stress analysis required by the Code Case is under evaluation and will be forwarded to the NRC upon completion.
9. There were a few rejectable indications noted during the 'WF examinations that required expanding the IWF support population per IWF-2430 (a) and (b). Refer to Section 10 of this report for specific details.

10. The examinations listed in this report were performed by personnel from:

Northeast Utilities Service Company
Northeast Utilities Energy Company
Abb/Amdata
Babcock and Wilcox
Cramer and Lindell
Fluor Daniels
NRT Technical

SECTION 5

PROCEDURES AND PERSONNEL QUALIFICATIONS

PROCEDURE LIST

ABB/AMDATA

| NUMBER | REV. | TITLE |
|---------|------|--|
| AMD-010 | 0 | MAIN STEAM & FEEDWATER NOZZLE INNER RADII EXAM |

BABCOCK & WILCOX

| NUMBER | REV. | TITLE |
|-----------|------|--|
| MP-XII-04 | 1 | LIQUID PENETRANT EXAMINATION |
| MP-XII-06 | 0 | MAGNETIC PARTICLE EXAMINATION (DRY METHOD) |

NORTHEAST UTILITIES

| NUMBER | REV. | TITLE |
|-----------|--------|---|
| NU-LP-1 | 10 | LP EXAM COLOR CONTRAST SOLVENT REMOVABLE |
| NU-MP-1 | 9 | MP EXAM YOKE METHOD |
| NU-MP-3 * | 0 | MP EXAM THROUGH PAINT AND COATINGS |
| NL-UT-1 | 8 & 9 | UT GENERAL REQUIREMENTS |
| NU-UT-2 | 8 | UT EXAM AUSTENITIC AND DISSIMILAR METAL WELDS |
| NU-UT-3 | 7 | UT EXAM FERRITIC PIPING WELDS |
| NU-UT-7 | 4 & 5 | UT EXAM VESSEL WELDS |
| NU-UT-11 | 2 | UT EXAM L-WAVE BUTT WELDS |
| NU-UT-16 | 3 | UT EXAM PRESSURIZER SUPPORT STRUCTURE WELDS |
| NU-UT-17 | 4 & 5 | UT EXAM NOZZLE TO SAFE END WELDS |
| NU-UT-20 | 4 & 5 | UT EXAM NOZZLE INNER RADIUS AREAS |
| NU-UT-21 | 4 | UT EXAM REACTOR COOLANT PUMP FLYWHEELS |
| NU-UT-26 | 3 | PRIMARY COOLANT PIPING WELDS |
| NU-VT-1 | 9 & 10 | VISUAL EXAM |
| | | |
| | | |

* 1991 MID CYCLE OUTAGE EXAMINATIONS

BABCOCK & WILCOX
PERSONNEL CERTIFICATIONS

| NAME | METHODS/LEVELS | | | | EXPIRATION DATE OF EYE CERTIFICATIONS |
|-------------|----------------|----|----|----|---|
| | VT | PT | UT | MT | |
| R. ALPECHE | | | | II | 07/02/93 |
| L. BOUGHNER | | | | II | 09/29/93 |
| T. PAGE | | | | II | 09/22/92 |
| | | | | | |

CRAMER / LINDELL
PERSONNEL CERTIFICATIONS

| NAME | METHODS/LEVELS | | | | EXPIRATION DATE OF EYE CERTIFICATIONS |
|-------------------|----------------|----|----|----|---|
| | VT | PT | UT | MT | |
| A. E. KISSINGER * | II | II | II | II | 06/07/91 |
| M. R. ROBERTS * | II | II | | II | 08/13/91 |

FLUOR
PERSONNEL CERTIFICATIONS

| NAME | METHODS/LEVELS | | | | EXPIRATION DATE OF EYE CERTIFICATIONS |
|---------------|----------------|----|----|----|---|
| | VT | PT | UT | MT | |
| R. BOONE | | | | II | 08/21/93 |
| G. CABRAL | | II | | II | 05/22/93 |
| R. C. CUPP | | II | | II | 09/04/93 |
| S. DRIGGERS | | | | II | 06/19/93 |
| D. DUMAIS | | | | II | 06/19/93 |
| S. D. GARRETT | | | | II | 08/04/93 |
| D. JOHNSON | | II | | | 06/25/93 |
| R. MILLER | | II | | II | 06/15/93 |
| R. J. PACKER | | II | | | 06/13/93 |
| D. RICKETTS | | | | II | 06/13/93 |
| L. STERLING | | | | II | 06/05/93 |

* 1991 MID CYCLE OUTAGE EXAMINATIONS

ABB/AMDATA
PERSONNEL CERTIFICATIONS

| NAME | METHODS/LEVELS | | | | EXPIRATION DATE OF EYE CERTIFICATIONS |
|--------------------|----------------|-----|-----|-----|---|
| | VT | PT | UT | MT | |
| J. H. ABBOTT | II | II | I | | 11/23/92 |
| T. T. BOENKAMPER | II | II | II | II | 07/22/92 |
| T. J. BOYERS | II | II | III | | 11/12/92 |
| M. C. BREHLER | | | I | | 08/11/93 |
| S. E. FONICELLO | | II | I | II | 10/16/93 |
| J. C. GRIGSBY | | | II | | 11/22/93 |
| M. D. HAHN | | II | II | II | 05/07/93 |
| S. G. HALL | | | II | | 01/20/93 |
| R. S. HARMON | | | I | | 02/05/93 |
| T. E. HURST | | | II | | 09/04/93 |
| C. L. LASOYA | II | II | II | | 11/02/93 |
| N. L. LASOYA | | I | I | I | 05/11/93 |
| S. W. NEWBOLD | II | III | I | III | 02/20/93 |
| G. A. POOLER | | II | II | | 07/07/93 |
| B. F. RHODES | | | I | | 09/19/93 |
| C. E. SHAW | | | II | | 01/06/93 |
| K. K. SMITH | | | II | | 11/02/93 |
| D. M. SUMMERFORD | II | I | II | II | 12/17/92 |
| K. F. WICKENHAUSER | | II | II | II | 05/07/93 |
| T. W. WINGFIELD | | | II | | 11/02/93 |
| | | | | | |
| J. P. PHILLIPPI * | | | | II | 02/03/92 |
| C. T. SELLERS * | | | | I | 04/03/92 |
| | | | | | |

* 1991 MID CYCLE OUTAGE EXAMINATIONS

NRT TECHNICAL
PERSONNEL CERTIFICATIONS

| NAME | METHODS/LEVELS | | | | EXPIRATION DATE OF EYE CERTIFICATIONS |
|-----------|----------------|----|----|----|---|
| | VT | PT | UT | MT | |
| J. VAUGHN | II | | | | 05/19/93 |

NUPOC
PERSONNEL CERTIFICATIONS

| NAME | METHODS/LEVELS | | | | EXPIRATION DATE OF EYE CERTIFICATIONS |
|---------------|----------------|----|----|----|---|
| | VT | PT | UT | MT | |
| V. BURNETT | II | | | | 03/16/93 |
| R. MONTGOMERY | II | | | | 09/09/93 |
| J. TYROL | II | | | | 02/20/93 |
| T. QUINLEY | II | | | | 10/01/93 |

NUSCO
PERSONNEL CERTIFICATIONS

| NAME | METHODS/LEVELS | | | | EXPIRATION DATE OF EYE CERTIFICATIONS |
|--------------------|----------------|-----|-----|-----|---|
| | VT | PT | UT | MT | |
| P. J. DURAND | II | II | II | II | 08/24/93 |
| R. J. FULLER | III | III | III | III | 09/29/93 |
| T. LAWRENCE | II | II | | II | 09/05/93 |
| D. R. MACNEILL | | | III | | 02/11/93 |
| R. A. PFANNELSTIEL | | III | III | III | 06/24/93 |
| J. PINTO* | II | III | II | III | 02/11/93 |
| | | | | | |
| | | | | | |

* 1991 MID CYCLE OUTAGE EXAMINATIONS

SECTION 6

EQUIPMENT AND MATERIAL LIST

EQUIPMENT AND MATERIAL LIST

| Manufacturer | Item | Model or Type | Serial or Batch Number |
|--------------|---------------|---------------|------------------------|
| MAGNAFLUX | CLEANER | SKC-NF | 90C01K |
| MAGNAFLUX | CLEANER | SKC-NF | 91B02K |
| MAGNAFLUX | CLEANER | SKC-NF | 91B02K-A |
| MAGNAFLUX | CLEANER | SKC-NF | 92A13K |
| ULTRAGEL II | COUPLANT | ECHO | 091011 |
| ULTRAGEL II | COUPLANT | ECHO | 8872 |
| ULTRAGEL II | COUPLANT | ECHO | 92101 |
| MAGNAFLUX | DEVELOPER | SKD-NF | 90K07K |
| MAGNAFLUX | DEVELOPER | SKD-NF | 91B04P |
| MAGNAFLUX | DEVELOPER | SKD-NF | 92E04K |
| PARKER * | MT YOKE | B-300 | 1416 |
| PARKER | MT YOKE | B300 | 3434 |
| PARKER | MT YOKE | B300 | 4092 |
| PARKER | MT YOKE | B300 | 4093 |
| PARKER | MT-YOKE | DA200 | 6751 |
| MAGNAFLUX | PENETRANT | SKL-EF/S | 90L02K |
| MAGNAFLUX | PENETRANT | SKL-EF/S | 92A05P |
| K/B | UT INSTRUMENT | EPOCH II | 91031004 |
| K/B | UT INSTRUMENT | USK-7D | 32810-548 |
| K/B | UT INSTRUMENT | USK-7D | 32810-821 |
| K/B | UT INSTRUMENT | USK-7D | 32810-869 |
| K/B | UT INSTRUMENT | USK-7D | 32810-897 |
| K/B | UT INSTRUMENT | USK-7D | 32810-900 |
| K/B | UT INSTRUMENT | USK-7D | 32810-917 |
| K/B | UT INSTRUMENT | USK-7D | 32810-924 |
| K/B | UT INSTRUMENT | USK-7D | 32810-941 |
| | | | |

* 1991 MID CYCLE OUTAGE EXAMINATIONS

EQUIPMENT AND MATERIAL LIST

| Manufacturer | Item | Model or Type | Serial or Batch Number |
|--------------|---------------|---------------|------------------------|
| K/B | UT INSTRUMENT | USK-7D | 32810-949 |
| K/B | UT INSTRUMENT | USL-37 | 211286 |
| K/B | UT INSTRUMENT | USL-37 | 211290 |
| K/B | UT INSTRUMENT | USL-37 | 211649 |
| K/B | UT INSTRUMENT | USL-38 | 210158 |
| K/B | UT INSTRUMENT | USL-38 | 210760 |
| K/B | UT INSTRUMENT | USL-38 | 211178 |
| | | | |

ULTRASONIC TRANSDUCER LIST

| SERIAL NUMBER | FREQUENCY | SIZE | MANUFACTURER |
|---------------|-----------|------------|--------------|
| S6-71 | 2.00 MHz | 1.0 x 1.0" | RTD |
| S417 | 1.00 MHz | 1.0 x 1.0" | C-E |
| O0841T | 2.25 MHz | 0.5 X 1.0" | SONIC |
| 130509 | 2.25 MHz | 0.5 X 1.0" | PANAMETRICS |
| A02628 | 2.25 MHz | 0.75" | AEROTECH |
| A12960 | 5.00 MHz | 0.50" | AEROTECH |
| A23652 | 2.25 MHz | 0.75" | AEROTECH |
| A26462 | 2.25 MHz | 0.5 X 1.0" | AEROTECH |
| A31369 | 2.25 MHz | 1.0" | AEROTECH |
| B02363 | 2.25 MHz | 0.50" | AEROTECH |
| B11541 | 2.25 MHz | 0.50" | AEROTECH |
| B11543 | 2.25 MHz | 0.50" | AEROTECH |
| B17739 | 2.25 MHz | 0.5 X 1.0" | AEROTECH |
| B25550 | 2.25 MHz | 0.5 X 1.0" | AEROTECH |
| B26091 | 2.25 MHz | 0.5 X 1.0" | AEROTECH |
| D17695 | 2.25 MHz | 0.75" | AEROTECH |
| E19700 | 2.25 MHz | 0.5 X 1.0" | AEROTECH |
| E19712 | 2.25 MHz | 0.5 X 1.0" | AEROTECH |
| F03122 | 2.25 MHz | 0.5 X 1.0" | AEROTECH |
| F03125 | 2.25 MHz | 0.5 X 1.0" | AEROTECH |
| F15164 | 2.25 MHz | 1.0" | AEROTECH |
| F15174 | 2.25 MHz | 1.0" | AEROTECH |
| F18226 | 2.25 MHz | 0.5" | AEROTECH |

ULTRASONIC TRANSDUCER LIST

| SERIAL NUMBER | FREQUENCY | SIZE | MANUFACTURER |
|---------------|-----------|------------|--------------|
| F18229 | 2.25 MHz | 0.5" | AEROTECH |
| F18233 | 2.25 MHz | 0.5" | AEROTECH |
| F23611 | 2.25 MHz | 0.5" | AEROTECH |
| F26508 | 2.25 MHz | 0.75" | AEROTECH |
| F27608 | 2.25 MHz | 0.5" | AEROTECH |
| F27618 | 2.25 MHz | 0.5" | AEROTECH |
| G15615 | 2.25 MHz | 0.5 X 1.0" | AEROTECH |
| G15619 | 2.25 MHz | 0.5 X 1.0" | AEROTECH |
| G15620 | 2.25 MHz | 0.5 X 1.0" | AEROTECH |
| G15624 | 2.25 MHz | 0.5 X 1.0" | AEROTECH |
| H20505 | 2.25 MHz | 1.0" | AEROTECH |
| H20519 | 2.25 MHz | 0.5" | AEROTECH |
| H20520 | 2.25 MHz | 0.5" | AEROTECH |
| H30549 | 2.25 MHz | 0.5" | AEROTECH |
| K05696 | 2.25 MHz | 1.0" | AEROTECH |
| K16415 | 2.25 MHz | 1.0" | AEROTECH |
| K26261 | 2.25 MHz | 0.5" | AEROTECH |
| K30647 | 2.25 MHz | 0.75" | AEROTECH |
| L03138 | 2.25 MHz | 0.5 X 1.0" | AEROTECH |
| M16512 | 2.25 MHz | 1.125" | AEROTECH |
| | | | |
| | | | |
| | | | |
| | | | |

CALIBRATION BLOCK LIST

BABCOCK AND WILCOX

| CAL. BLOCK # | DRAWING # | REVISION |
|--------------|-----------|----------|
| 20-T-046 | 1P-18000 | B |
| 20-T-048 | 1P-18001 | O |
| 20-T-049 | 1P-18003 | C |
| 20-T-052 | 1P-18040 | O |
| 20-T-053 | 1P-18002 | A |
| 20-T-054 | 1P-18004 | O |

NORTHEAST UTILITIES

| CAL. BLOCK # | DRAWING 25203-29449 | REVISION |
|----------------------|-------------------------------------|----------|
| UT- 4 | SHEET # 5 | 1 |
| UT- 8 | SHEET # 2 | 1 |
| UT-12 | SHEET #14 | 1 |
| UT-13 | SHEET #32 | 1 |
| UT-14 | SHEET #13 | 1 |
| UT-15 | SHEET #30 | 3 |
| UT-23 | SHEET #10 | 1 |
| UT-28 | SHEET #21 | 1 |
| UT-29 | SHEET #22 | 1 |
| UT-34 | SHEET #15 | 1 |
| DRAWING #25203-29449 | | |
| UT-46 | PART # 46 | 3 |
| UT-47 | PART # 47 | 3 |
| UT-60 | PART # 60 | 3 |
| RCP FLYWHEEL | NONE | NONE |
| ROMPAS BLOCK | SN# 054892 | NONE |
| STEP WEDGE | SN# 91-6478 | NONE |
| UT-31 (MP-3) | WESTINGHOUSE DRAWING #80D7571 REV.0 | |

SECTION 7

CONDITIONS NOTED

CONDITIONS NOTED

1. Volumetric, surface and visual examinations were performed, as required, by the ASME Boiler and Pressure Vessel Code, Section XI, 1980 Edition, including the 1981 Winter Addenda. However, the extent of the examinations for class 1 (B-J) and class 2 (C-F and C-G) are determined by the 1974 Edition, including the 1975 Summer Addenda, as required and/or permitted by 10CFR50.55a.
2. Reactor coolant pump "A" was disassembled for maintenance and rework during this outage. The visual examinations required by Code Case N-481, were performed on the pump casing. The Category B-G-1, studs were examined in accordance with IE Bulletin #82-02. A new rotating assembly and cover were installed and the pump was returned to service.
3. Both steam generators (#1 and #2) were replaced during this outage. The preservice examinations were performed in accordance with the ASME Boiler and Pressure Vessel Code, Section XI, 1980 Edition, including the 1981 Winter Addenda. However, due to the geometric configuration of the hot and cold leg nozzles and the bottom head only a limited ultrasonic examination was performed on these nozzles. Relief request number RR-13 and RR-14, will be submitted to the NRC seeking relief from performing 100% volumetric examination of these welds.
4. Several components and supports were reworked or replaced during this outage. refer to sections 8, 9 and 10 of this report for the preservice examination details and section 11, for the NIS-2 reports.
5. The high stress areas (bore and keyways) of the four reactor coolant pump flywheels were examined during the 1989, mid-cycle shutdown. These ultrasonic examinations were conducted to meet Regulatory Guide #1.14, requirements and are creditable to the second period, second interval.

SECTION 8

CLASS 1 EXAMINATION RESULTS

CLASS 1 EXAMINATION RESULTS

Category B-B

Examination Area: Pressure Retaining Welds in Vessels Other Than Reactor Vessels

Examination Method: Volumetric (UT) 0 - 45 - 60 Degree Scans

| Item Number | Results | Remarks/Notes |
|--------------|------------|---------------|
| SG-1-BHC-1-A | Acceptable | UT / 3 |
| SG-1-BHC-2-A | Acceptable | UT / 3 |
| SG-1-TSS-3-A | Acceptable | UT / 3, 15 |
| SG-2-BHC-1-A | Acceptable | UT / 3, 15 |
| SG-2-BHC-2-A | Acceptable | UT / 3, 15 |
| SG-2-TSS-3-A | Acceptable | UT / 3 |

Category B-D

Examination Area: Full Penetration Welds of Nozzles In Vessels

Examination Method: Volumetric (UT) 0 - 45 - 60 Degree and 60 - 70 Degree Scans

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------|
| PR-B-IR-1 | Acceptable | UT / 1 |
| PR-NTH-4 | Acceptable | UT / 2 |
| PR-NTH-5 | Acceptable | UT / 2 |
| PR-T-IR-1 | Acceptable | UT / 1, 7 |
| PR-T-IR-3 | Acceptable | UT / 1, 7 |
| PR-T-IR-4 | Acceptable | UT / 2 |
| PR-T-IR-5 | Acceptable | UT / 2 |
| SG-1-IR-2-A | Acceptable | UT / 3 |
| SG-1-IR-4-A | Acceptable | UT / 3 |
| SG-1-IR-5A | Acceptable | UT / 3 |
| SG-1-NH-2-A | Acceptable | UT / 3, 15 |
| SG-1-NH-4-A | Acceptable | UT / 3, 15 |
| SG-1-NH-5-A | Acceptable | UT / 3 |
| SG-2-IR-2-A | Acceptable | UT / 3 |
| SG-2-IR-4-A | Acceptable | UT / 3 |
| SG-2-IR-5-A | Acceptable | UT / 3 |
| SG-2-NH-2-A | Acceptable | UT / 3 |
| SG-2-NH-4-A | Acceptable | UT / 3 |
| SG-2-NH-5-A | Acceptable | UT / 3 |

Category B-E

Examination Area: Pressure Retaining Partial Penetration Welds in Vessels
Examination Method: Visual (VT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------|
| PR-PHC-026 | Acceptable | VT-2 / 1 |
| PR-PHC-030 | Acceptable | VT-2 / 1 |
| PR-PHC-034 | Acceptable | VT-2 / 1 |
| PR-PHC-038 | Acceptable | VT-2 / 1 |
| PR-PHC-044 | Acceptable | VT-2 / 1 |
| PR-PHC-078 | Acceptable | VT-2 / 1 |
| PR-PHC-082 | Acceptable | VT-2 / 1 |
| PR-PHC-090 | Acceptable | VT-2 / 1 |
| PR-PHC-098 | Acceptable | VT-2 / 1 |
| PR-PHC-102 | Acceptable | VT-2 / 1 |
| PR-PHC-106 | Acceptable | VT-2 / 1 |
| PR-PHC-114 | Acceptable | VT-2 / 1 |

Category B-F

Examination Area: Pressure Retaining Dissimilar Metal Welds In Piping NPS <4 In.
Examination Method: Surface (PT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------|
| BPD-C-1001 | Acceptable | PT / 1 |

Category B-G-1

Examination Area: Pressure Retaining Bolting Larger than 2" in Dia.

Examination Method: To meet the requirements of IE Bulletin #82-02, a surface examination (MT) was performed on the disassembled "A" reactor coolant pump studs. While pump was disassembled, a visual exam was also performed on the flange surface.

| Item Number | Results | Remarks/Notes |
|-----------------------|------------|---------------|
| RP-40A-S-01 thru S-16 | Acceptable | MT |
| RP-40A-F-01 thru F16 | Acceptable | VT |

Category B-G-2

Examination Area: Pressure Retaining Bolting Two Inches in Diameter and Less
 Examination Method: Visual (VT)

| Item Number | Results | Remarks/Notes |
|---------------|------------|---------------|
| HJTC-B | Acceptable | VT-1 / 3 |
| RC-100E | Acceptable | VT-1 / 2 |
| RC-100F | Acceptable | VT-1 / 2 |
| RC-200 FLANGE | Acceptable | VT-1 / 3 |
| RC-250 | Acceptable | VT-1 / 2 |
| RC-251 | Acceptable | VT-1 / 2 |
| SG-1-B-1-A | Acceptable | VT-1 / 3, 15 |
| SG-1-B-3-A | Acceptable | VT-1 / 3 |
| SG-2-B-1-A | Acceptable | VT-1 / 3 |
| SG-2-B-3-A | Acceptable | VT-1 / 3 |
| SI-227 BONNET | Acceptable | VT-1 / 3 |
| SI-235 BONNET | Acceptable | VT-1 / 2 |
| SI-235 PIVOT | Acceptable | VT-1 / 2 |
| SI-634 BONNET | Acceptable | VT-1 / 2 |

Category B-H

Examination Area: Integral Attachments for Vessels
Examination Method: Volumetric (UT) Surface

| Item Number | Results | Remarks/Notes |
|----------------|------------|---------------|
| SG-1-CLL | Acceptable | MT / 3 |
| SG-1-HLL | Acceptable | MT / 3 |
| SG-1-SUP-C-1-A | Acceptable | MT UT / 3, 4 |
| SG-2-CLL | Acceptable | MT / 3, 5 |
| SG-2-HLL | Acceptable | MT / 3, 5 |
| SG-2-SUP-C-1-A | Acceptable | UT / 3, 5 |

Category B-J

Examination Area: Pressure Retaining Welds in Piping

Examination Method: Volumetric (UT) and Surface (PT) or (MT) 4" and Over

| Item Number | Results | Remarks/Notes |
|--------------|------------|---------------|
| BLD-C-4000-A | Acceptable | PT / 17 |
| BLD-C-4000-B | Acceptable | PT / 17 |
| BLD-C-4008 | Acceptable | PT / 2 |
| BLD-C-4010 | Acceptable | PT / 2 |
| BLD-C-4012 | Acceptable | PT / 2 |
| BLD-C-4018 | Acceptable | PT / 2 |
| BLD-C-4022 | Acceptable | PT / 2 |
| BLD-C-4024 | Acceptable | PT / 2 |
| BLD-C-4036 | Acceptable | PT / 2 |
| BLD-C-4044 | Acceptable | PT / 2 |
| BLD-C-4046 | Acceptable | PT / 2 |
| BPS-C-1009 | Acceptable | PT UT / 2 |
| BPS-C-1015 | Acceptable | PT UT / 5 |
| BPS-C-1021 | Acceptable | PT UT / 2 |
| BPY-C-3046 | Acceptable | PT / 2 |
| BPY-C-5037 | Acceptable | PT / 2 |
| BPY-C-5039 | Acceptable | PT / 2 |
| BPY-C-5055 | Acceptable | PT / 2 |
| BPY-C-5057 | Acceptable | PT / 2 |
| BPY-C-5061 | Acceptable | PT / 2 |
| BSI-C-2027 | Acceptable | PT UT / 2 |
| BSI-C-2027A | Acceptable | PT UT / 2 |
| BSI-C-3044 | Acceptable | PT UT / 2, 15 |
| BSI-C-3046 | Acceptable | PT UT / 2, 15 |
| BSI-C-3048 | Acceptable | PT UT / 2, 15 |
| BSI-C-4038 | Acceptable | PT UT / 1 |
| BSI-C-4040 | Acceptable | PT UT / 1 |
| P-1-C-3-A-A | Acceptable | MT UT / 3, 15 |

CLASS 1 EXAMINATION RESULTS

Category B-J

Examination Area: Pressure Retaining Welds in Piping

Examination Method: Volumetric (UT) and Surface (PT) or (MT) 4" and Over

| Item Number | Results | Remarks/Notes |
|--------------|------------|---------------|
| P-1-C-3-B | Acceptable | MT UT / 3, 15 |
| P-10-C-3-A-A | Acceptable | MT UT / 3, 15 |
| P-10-C-3-B | Acceptable | MT UT / 3, 15 |
| P-11-C-1-A-A | Acceptable | MT UT / 3, 15 |
| P-11-C-1-B | Acceptable | MT UT / 3 |
| P-15-C-1-A-A | Acceptable | MT UT / 3, 15 |
| P-15-C-1-B | Acceptable | MT UT / 3 |
| P-2-C-1-A-A | Acceptable | MT UT / 3, 15 |
| P-2-C-1-B | Acceptable | MT UT / 3 |
| P-6-C-1-A-A | Acceptable | MT UT / 3, 15 |
| P-6-C-1-B | Acceptable | MT UT / 3 |

CLASS 1 EXAMINATION RESULTS

Category B-L-1

Examination Area: Pressure Retaining Welds in Pump Castings
Examination Method: Volumetric (UT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------|
| RP-PCA-1 | Acceptable | VT-1 / 1, 18 |
| RP-PCA-1A | Acceptable | VT-1 / 1, 18 |

CLASS 1 EXAMINATION RESULTS

Category B-M-2

Examination Area: Valve Bodies

Examination Method: Visual (VT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------|
| SI-652 | Acceptable | VT-1 / 1 |

CLASS 1 EXAMINATION RESULTS

Category B-N-1

Examination Area: Interior of Reactor Vessel

Examination Method: Visual (VT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------|
| CHKW-1 | Acceptable | VT-3 / 1 |
| CHKW-2 | Acceptable | VT-3 / 1 |
| CHKW-3 | Acceptable | VT-3 / 1 |
| CHKW-4 | Acceptable | VT-3 / 1 |
| CHMS | Acceptable | VT-3 / 1 |
| KW-1 | Acceptable | VT-3 / 1 |
| KW-2 | Acceptable | VT-3 / 1 |
| KW-3 | Acceptable | VT-3 / 1 |
| KW-4 | Acceptable | VT-3 / 1 |
| RV-INT | Acceptable | VT-3 / 1 |

CLASS 1 EXAMINATION RESULTS

Category C-4.A

Examination Area: Reactor Coolant Pump Flywheels High Stressed Area (Bore & Keyway)
Examination Method: Volumetric (UT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------|
| RP-40A-FHS | Acceptable | UT / 19 |
| RP-40B-FHS | Acceptable | UT / 19 |
| RP-40C-FHS | Acceptable | UT / 19 |
| RP-40D-FHS | Acceptable | UT / 19 |

**Notes
Class 1, 2, and 3
Components**

- Note 1 Second Period, Second Interval ISI Code Creditable Exam.
- Note 2 Third Period, Second Interval ISI Code Creditable Exam.
- Note 3 This examination was performed for preservice code credit.
- Note 4 The new Steam Generator Number One was selected to be the ISI component. A baseline ultrasonic and magnetic particle examination were both performed on the B-H Category examination area. However, only the magnetic particle examination will be applicable for preservice code credit.
- Note 5 The examination performed on this weld was for information only.
- Note 6 The Steam Generator Number One hydrostatic test was conducted prior to the Class 2 steam generator preservice examination.
- Note 7 Additional inner radius UT examinations were performed on this nozzle to assure adequate coverage.
- Note 8 Indications were noted during this examination but were dispositioned, acceptable per IWF-3400.
- Note 9 This support was rejected per IWF-3400, repaired, and reinspected.
- Note 10 This support examination was added to the work plan per IWF-2430(a).
- Note 11 This support examination was added to the work plan per IWF-2430(b).
- Note 12 This support was examined for preservice credit, rejected per IWF-3400, repaired, and reinspected.
- Note 13 Support #380009 was examined for second period credit instead of support #405707.
- Note 14 This exam was performed while in the area performing exams on adjacent components. It is not for code credit.
- Note 15 NDE indications were noted and reported. However, they were dispositioned as acceptable per the applicable section of the ASME code.
- Note 16 This support was rejected during last period and is being re-examined in accordance with the requirements of IWF-2420(b).
- Note 17 This is a new weld added during the steam generator replacement project and was examined for preservice credit.

- Note 18 This weld was examined in accordance with the requirements of code case N-481, paragraph (b).
- Note 19 The reactor coolant pump flywheel high stress keyway and bore were examined per Reg. Guide 1-14, for second period, second interval credit.
- Note 20 A 70 degree UT scan was also performed to assure comprehensive coverage.
- Note 21 This weld was examined during the 1991 midcycle shutdown. It is located in the Class 2, containment penetration portion of a piping system. These welds will be added to the ten-year ISI program and examined in accordance with the 1980 Edition, including the Winter 1981 Addenda of the ASME Boiler and Pressure Vessel Code, Section XI.
- Note 22 This support has been removed from the piping system. The removal was verified during this refueling outage.

SECTION 9

CLASS 2 EXAMINATION RESULTS

CLASS 2 EXAMINATION RESULTS

Category C-A

Examination Area: Pressure Retaining Welds in Pressure Vessels
Examination Method: Volumetric (UT) 0-45-60 Degrees

| Item Number | Results | Remarks/Notes |
|---------------|------------|----------------|
| 1-SC-2A | Acceptable | UT / 3, 15, 20 |
| 1-SC-3 | Acceptable | UT / 1, 15 |
| 1-SC-4 | Acceptable | UT / 3, 15 |
| 1-SC-5 | Acceptable | UT / 3, 15 |
| 2-SC-2A | Acceptable | UT / 5, 15, 20 |
| 2-SC-4 | Acceptable | UT / 5, 15 |
| 2-SC-5 | Acceptable | UT / 5, 15 |
| SG-1-BHSC-2-A | Acceptable | UT / 3, 15 |
| SG-1-THS-1 | Acceptable | UT / 2, 15 |
| SG-1-THS-2 | Acceptable | UT / 2, 15 |
| SG-2-BHSC-2-A | Acceptable | UT / 5, 15 |

CLASS 2 EXAMINATION RESULTS

Category C-B

Examination Area: Pressure Retaining Nozzle Welds in Vessels
Examination Method: Volumetric (UT) Surface (MT)

| Item Number | Results | Remarks/Notes |
|--------------|------------|---------------|
| SG-2-MS-1 | Acceptable | MT UT / 2 |
| SG-2-MS-IR-1 | Acceptable | UT / 2 |

CLASS 2 EXAMINATION RESULTS

Category C-C

Examination Area: Integral Attachments for Vessels, Piping, Pumps & Valves
Examination Method: Surface (PT or MT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------|
| 402060 C-C | Acceptable | PT / 2 |
| 404020 C-C | Acceptable | PT / 2 |
| 412017 C-C | Acceptable | MT / 2 |
| 502024 C-C | Acceptable | PT / 2 |
| SG-1-CC-1 | Acceptable | MT / 3 |
| SG-1-CC-2 | Acceptable | MT / 3 |

CLASS 2 EXAMINATION RESULTS

Category C-F

Examination Area: Pressure Containing Welds in Piping
Examination Method: Thickness 1/2" or Less, Surface (PT) or (MT); Thickness Over 1/2",
Volumetric (UT) Surface (PT) or (MT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------|
| CP-050 * | Acceptable | MT / 21 |
| CP-055 * | Acceptable | MT / 21 |
| CP-125 * | Acceptable | MT / 21 |
| W -008 * | Acceptable | MT / 21 |
| W -010 * | Acceptable | MT / 21 |
| W -024 * | Acceptable | MT / 21 |
| W -036 * | Acceptable | MT / 21 |
| W -044 * | Acceptable | MT / 21 |
| W -050 * | Acceptable | MT / 21 |
| W -125 * | Acceptable | MT / 21 |
| W -CHP-01 * | Acceptable | MT / 21 |
| W -CHP-07 * | Acceptable | MT / 21 |
| W -CHP-08 * | Acceptable | MT / 21 |

CLASS 2 EXAMINATION RESULTS

Category C-F

Examination Area: Pressure Containing Welds in Piping
 Examination Method: Thickness 1/2" or Less Surface (PT or MT); Thickness Over 1/2"
 Volumetric (UT) and Surface (PT or MT)

| Item Number | Results | Remarks/Notes |
|--------------|------------|---------------|
| FWA-C-G-01-A | Acceptable | MT UT / 3 |
| FWA-C-G-02-A | Acceptable | PT UT / 3, 15 |
| FWA-C-G-03-A | Acceptable | MT UT / 3 |
| FWA-C-G-04-A | Acceptable | MT UT / 3 |
| FWA-C-G-18 | Acceptable | MT / 3 |
| FWA-C-G-19 | Acceptable | MT / 3 |
| FWA-C-G-20 | Acceptable | MT / 3 |
| FWB-C-G-01-A | Acceptable | MT UT / 3, 15 |
| FWB-C-G-02-A | Acceptable | PT UT / 3, 15 |
| FWB-C-G-03-A | Acceptable | MT UT / 3, 15 |
| FWB-C-G-04-A | Acceptable | MT UT / 3, 15 |
| MSA-CG-01B | Acceptable | MT UT / 3, 15 |
| MSA-CG-02A | Acceptable | MT UT / 3 |
| MSA-CG-03A | Acceptable | MT UT / 3 |
| MSA-CG-04A | Acceptable | MT UT / 3 |
| MSB-CG-01B | Acceptable | MT UT / 3, 15 |
| MSB-CG-02A | Acceptable | MT UT / 3 |
| MSB-CG-03A | Acceptable | MT UT / 3 |
| MSB-CG-04A | Acceptable | MT UT / 3 |
| SI-CF-A-076 | Acceptable | PT / 2 |
| SI-CF-A-084 | Acceptable | PT / 2 |
| SI-CF-B-072 | Acceptable | PT / 2 |
| SI-CF-B-076 | Acceptable | PT / 2 |
| SI-CF-B-085 | Acceptable | PT / 2, 15 |
| SI-CF-C-009 | Acceptable | PT / 2 |

CLASS 2 EXAMINATION RESULTS

Category C-F

Examination Area: Pressure Containing Welds in Piping
Examination Method: Thickness 1/2" or Less Surface (PT or MT); Thickness Over 1/2"
Volumetric (UT) and Surface (PT or MT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------|
| SI-CF-E-037 | Acceptable | PT / 2 |
| SI-CF-X-04 | Acceptable | PT / 2 |
| SI-CF-X-07 | Acceptable | PT / 2 |
| SI-CF-X-14 | Acceptable | PT / 2 |
| SIT-CF-D007 | Acceptable | PT / 2 |

CLASS 2 EXAMINATION RESULTS

Category C-H

Examination Area: All Pressure Retaining Components
Examination Method: Visual (VT-2)

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------|
| STM GEN #1 | Acceptable | VT-2 / 6 |
| STM GEN #2 | Acceptable | VT-2 |

**Notes
Class 1, 2, and 3
Components**

- Note 1 Second Period, Second Interval ISI Code Creditable Exam.
- Note 2 Third Period, Second Interval ISI Code Creditable Exam.
- Note 3 This examination was performed for preservice code credit.
- Note 4 The new Steam Generator Number One was selected to be the ISI component. A baseline ultrasonic and magnetic particle examination were both performed on the B-H Category examination area. However, only the magnetic particle examination will be applicable for preservice code credit.
- Note 5 The examination performed on this weld was for information only.
- Note 6 The Steam Generator Number One hydrostatic test was conducted prior to the Class 2 steam generator preservice examination.
- Note 7 Additional inner radius UT examinations were performed on this nozzle to assure adequate coverage.
- Note 8 Indications were noted during this examination but were dispositioned, acceptable per IWF-3400.
- Note 9 This support was rejected per IWF-3400, repaired, and reinspected.
- Note 10 This support examination was added to the work plan per IWF-2430(a).
- Note 11 This support examination was added to the work plan per IWF-2430(b).
- Note 12 This support was examined for preservice credit, rejected per IWF-3400, repaired, and reinspected.
- Note 13 Support #380009 was examined for second period credit instead of support #405707.
- Note 14 This exam was performed while in the area performing exams on adjacent components. It is not for code credit.
- Note 15 NDE indications were noted and reported. However, they were dispositioned as acceptable per the applicable section of the ASME code.
- Note 16 This support was rejected during last period and is being re-examined in accordance with the requirements of IWF-2420(b).
- Note 17 This is a new weld added during the steam generator replacement project and was examined for preservice credit.

- Note 18 This weld was examined in accordance with the requirements of code case N-481, paragraph (b).
- Note 19 The reactor coolant pump flywheel high stress keyway and bore were examined per Reg. Guide 1-14, for second period, second interval credit.
- Note 20 A 70 degree UT scan was also performed to assure comprehensive coverage.
- Note 21 This weld was examined during the 1991 midcycle shutdown. It is located in the Class 2, containment penetration portion of a piping system. These welds will be added to the ten-year ISI program and examined in accordance with the 1980 Edition, including the Winter 1981 Addenda of the ASME Boiler and Pressure Vessel Code, Section XI.
- Note 22 This support has been removed from the piping system. The removal was verified during this refueling outage.

SECTION 10

IWF EXAMINATION RESULTS

CLASS 1 EXAMINATION RESULTS

Category IWF 1

Examination Area: Class 1, IWF Supports
Examination Method: Visual (VT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------|
| 408017-E | Acceptable | VT-3 & 4 / 3 |
| 410024 | Acceptable | VT-3 / 1 |
| 410049 | Acceptable | VT-3 / 1 |
| 491385-E | Acceptable | VT-3 / 2 |
| 491385-J | Acceptable | VT-3 / 2 |
| 491385-L | Acceptable | VT-3 / 2 |
| 491385-M | Acceptable | VT-3 / 2 |
| 491385-N | Acceptable | VT-3 / 2 |
| 491385-U | Acceptable | VT-3 / 12 |
| 491389-T | Acceptable | VT-3 / 2 |
| 491412 | Acceptable | VT-3 / 2 |
| 491418-A | Acceptable | VT-3 / 14 |
| 491422-B | Acceptable | VT-3 / 2 |
| 491440 | Acceptable | VT-3 / 2, 8 |
| 491440-H | Acceptable | VT-3 / 2 |
| 491440-M | Acceptable | VT-3 / 2 |
| 491440-P | Acceptable | VT-3 / 2 |
| 491440-W | Acceptable | VT-3 / 2 |
| 491440-X | Acceptable | VT-3 / 2 |
| 491440-Z | Acceptable | VT-3 / 2, 8 |

CLASS 2 EXAMINATION RESULTS

Category IWF 2

Examination Area: Class 2, IWF Supports
Examination Method: Visual (VT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------------|
| 304015 | Acceptable | VT-3 / 22 |
| 312009 | Acceptable | VT-3 & 4 / 3, 15 |
| 380278 | Acceptable | VT-3 & 4 / 2, 8, 16 |
| 402047 | Acceptable | VT-3 / 10, 15 |
| 402048 | Acceptable | VT-3 / 10 |
| 402052 | Acceptable | VT-3 / 2, 9 |
| 402060 | Acceptable | VT-3 / 2 |
| 402062 | Acceptable | VT-3 / 10 |
| 402078 | Acceptable | VT-3 / 2 |
| 404018 | Acceptable | VT-3 & 4 / 2, 15 |
| 404019 | Acceptable | VT-3 & 4 / 2 |
| 404020 | Acceptable | VT-3 / 2 |
| 404022 | Acceptable | VT-3 / 2 |
| 407001 | Acceptable | VT-3 / 2, 15 |
| 407003 | Acceptable | VT-3 / 2 |
| 412012 | Acceptable | VT-3 & 4 / 3, 9 |
| 412017 | Acceptable | VT-3 / 3 |
| 502004 | Acceptable | VT-3 / 2 |
| 502013 | Acceptable | VT-3 / 2 |
| 502023 | Acceptable | VT-3 / 2 |
| 502024 | Acceptable | VT-3 / 2, 9 |
| 502026 | Acceptable | VT-3 & 4 / 2 |
| 502035 | Acceptable | VT-3 / 2 |

CLASS 3 EXAMINATION RESULTS

Category IWF 3

Examination Area: Class 3, IWF Supports
Examination Method: Visual (VT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|---------------|
| 1-156SHT.1 | Acceptable | VT-3 / 2 |
| 303002 | Acceptable | VT-3 / 2, 15 |
| 303004 | Acceptable | VT-3 / 2 |
| 303071 | Acceptable | VT-3 / 2, 15 |
| 305573 | Acceptable | VT-3 / 2 |
| 305574 | Acceptable | VT-3 / 2 |
| 305581 | Acceptable | VT-3 / 2, 3 |
| 305582 | Acceptable | VT-3 / 3 |
| 305583 | Acceptable | VT-3 / 2 |
| 305807 | Acceptable | VT-3 / 2 |
| 305808 | Acceptable | VT-3 / 2 |
| 305923 | Acceptable | VT-3 / 2 |
| 313074 | Acceptable | VT-3 / 2 |
| 327002 | Acceptable | VT-3 / 11 |
| 327007 | Acceptable | VT-3 / 3, 15 |
| 327017 | Acceptable | VT-3 / 3 |
| 327122 | Acceptable | VT-3 / 3 |
| 327123 | Acceptable | VT-3 / 3 |
| 327124 | Acceptable | VT-3 / 3 |
| 327125 | Acceptable | VT-3 / 3, 15 |
| 327135 | Acceptable | VT-3 / 3 |
| 327138 | Acceptable | VT-3 / 3, 15 |
| 327141 | Acceptable | VT-3 / 3 |
| 327145 | Acceptable | VT-3 / 2, 9 |
| 327147 | Acceptable | VT-3 / 3 |
| 327148 | Acceptable | VT-3 / 2, 15 |

CLASS 3 EXAMINATION RESULTS

Category IWF 3

Examination Area: Class 3, IWF Supports
Examination Method: Visual (VT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|-----------------|
| 327149 | Acceptable | VT-3 / 3 |
| 327150 | Acceptable | VT-3 / 2, 3, 15 |
| 327157 | Acceptable | VT-3 / 3 |
| 327160 | Acceptable | VT-3 / 3, 15 |
| 327165 | Acceptable | VT-3 / 3 |
| 329012 | Acceptable | VT-3 / 2, 15 |
| 329015 | Acceptable | VT-3 / 3, 9 |
| 329033 | Acceptable | VT-3 / 3 |
| 329042 | Acceptable | VT-3 / 3 |
| 329044 | Acceptable | VT-3 / 3 |
| 329047 | Acceptable | VT-3 / 3, 15 |
| 380009 | Acceptable | VT-3 / 1, 13 |
| 403016 | Acceptable | VT-3 / 2 |
| 403047 | Acceptable | VT-3 / 2 |
| 403048 | Acceptable | VT-3 & 4 / 2 |
| 403064 | Acceptable | VT-3 / 14 |
| 403067 | Acceptable | VT-3 / 14 |
| 403068 | Acceptable | VT-3 / 2 |
| 403071 | Acceptable | VT-3 / 2, 15 |
| 403080 | Acceptable | VT-3 / 2 |
| 403090 | Acceptable | VT-3 & 4 / 2 |
| 405123 | Acceptable | VT-3 / 2, 15 |
| 405503 | Acceptable | VT-3 / 2, 15 |
| 405634 | Acceptable | VT-3 / 2 |
| 405635 | Acceptable | VT-3 / 2 |
| 405692 | Acceptable | VT-3 / 2 |
| 405875 | Acceptable | VT-3 / 2 |

CLASS 3 EXAMINATION RESULTS

Category IWF 3

Examination Area: Class 3, IWF Supports
Examination Method: Visual (VT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|----------------|
| 405876 | Acceptable | VT-3 / 2 |
| 405889 | Acceptable | VT-3 / 2 |
| 405890 | Acceptable | VT-3 / 2 |
| 405891 | Acceptable | VT-3 / 2 |
| 405901 | Acceptable | VT-3 / 16 |
| 405962 | Acceptable | VT-3 / 2 |
| 413128 | Acceptable | VT-3 / 2 |
| 413185 | Acceptable | VT-3 / 2 |
| 413186 | Acceptable | VT-3 / 2 |
| 413187 | Acceptable | VT-3 / 2 |
| 413189 | Acceptable | VT-3 / 2 |
| 413190 | Acceptable | VT-3 / 2 |
| 415053 | Acceptable | VT-3 & 4 / 2 |
| 427055 | Acceptable | VT-3 / 3, 15 |
| 427056 | Acceptable | VT-3 / 2 |
| 427063 | Acceptable | VT-3 / 2 |
| 427067 | Acceptable | VT-3 / 2, 3, 9 |
| 427069 | Acceptable | VT-3 / 3 |
| 427080 | Acceptable | VT-3 / 3, 9 |
| 427082 | Acceptable | VT-3 / 3 |
| 427084 | Acceptable | VT-3 / 3 |
| 427085 | Acceptable | VT-3 / 3 |
| 427087 | Acceptable | VT-3 / 3 |
| 427092 | Acceptable | VT-3 / 3 |
| 427093 | Acceptable | VT-3 / 2, 3 |
| 427094 | Acceptable | VT-3 / 3 |
| 427098 | Acceptable | VT-3 / 10, 9 |

CLASS 3 EXAMINATION RESULTS

Category IWF 3

Examination Area: Class 3, IWF Supports
Examination Method: Visual (VT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|------------------|
| 427099 | Acceptable | VT-3 / 2 |
| 427102 | Acceptable | VT-3 & 4 / 2, 15 |
| 427104 | Acceptable | VT-3 / 3 |
| 427110 | Acceptable | VT-3 / 2 |
| 427112 | Acceptable | VT-3 / 2, 3 |
| 427113 | Acceptable | VT-3 / 14 |
| 450172 | Acceptable | VT-3 / 3 |
| 503012 | Acceptable | VT-3 / 2 |
| 503013 | Acceptable | VT-3 / 2 |
| 503014 | Acceptable | VT-3 / 2 |
| 503017 | Acceptable | VT-3 / 2 |
| 503018 | Acceptable | VT-3 / 2 |
| 503020 | Acceptable | VT-3 / 2 |
| 503021 | Acceptable | VT-3 / 2 |
| 503022 | Acceptable | VT-3 / 2 |
| 505179 | Acceptable | VT-3 / 2 |
| 505230 | Acceptable | VT-3 / 2 |
| 513018 | Acceptable | VT-3 / 2 |
| 527009 | Acceptable | VT-3 / 3 |
| 527010 | Acceptable | VT-3 / 3 |
| 527011 | Acceptable | VT-3 / 3, 15 |
| 527012 | Acceptable | VT-3 / 3, 9 |
| 527013 | Acceptable | VT-3 / 3 |
| 527014 | Acceptable | VT-3 / 3, 12 |
| 527017 | Acceptable | VT-3 / 3, 12 |
| 527019 | Acceptable | VT-3 / 3 |
| 527045 | Acceptable | VT-3 / 2, 15 |

CLASS 3 EXAMINATION RESULTS

Category IWF 3

Examination Area: Class 3, IWF Supports
Examination Method: Visual (VT)

| Item Number | Results | Remarks/Notes |
|-------------|------------|-----------------|
| 527067 | Acceptable | VT-3 / 3 |
| 527068 | Acceptable | VT-3 / 9, 11 |
| 527069 | Acceptable | VT-3 / 9, 11 |
| 527070 | Acceptable | VT-3 / 9, 11 |
| 59894 | Acceptable | VT-3 / 2 |
| 60469 | Acceptable | VT-3 / 3 |
| 60518 | Acceptable | VT-3 / 3 |
| 60519 | Acceptable | VT-3 / 3 |
| 6JGD-M-7A-4 | Acceptable | VT-3 / 2 |
| 6JGD-M-7A-5 | Acceptable | VT-3 / 2 |
| 6JGD-M-7A-7 | Acceptable | VT-3 / 2, 15 |
| 8JGD-M-7A-1 | Acceptable | VT-3 / 2 |
| 8JGD-M-7A-2 | Acceptable | VT-3 / 2, 3, 15 |
| 8JGD-M-7A-3 | Acceptable | VT-3 / 2 |
| 8JGD-M-7B-2 | Acceptable | VT-3 / 3 |
| 8JGD-M-7B-3 | Acceptable | VT-3 / 3 |

Notes
Class 1, 2, and 3
Components

- Note 1 Second Period, Second Interval ISI Code Creditable Exam.
- Note 2 Third Period, Second Interval ISI Code Creditable Exam.
- Note 3 This examination was performed for preservice code credit.
- Note 4 The new Steam Generator Number One was selected to be the ISI component. A baseline ultrasonic and magnetic particle examination were both performed on the B-H Category examination area. However, only the magnetic particle examination will be applicable for preservice code credit.
- Note 5 The examination performed on this weld was for information only.
- Note 6 The Steam Generator Number One hydrostatic test was conducted prior to the Class 2 steam generator preservice examination.
- Note 7 Additional inner radius UT examinations were performed on this nozzle to assure adequate coverage.
- Note 8 Indications were noted during this examination but were dispositioned, acceptable per IWF-3400.
- Note 9 This support was rejected per IWF-3400, repaired, and reinspected.
- Note 10 This support examination was added to the work plan per IWF-2430(a).
- Note 11 This support examination was added to the work plan per IWF-2430(b).
- Note 12 This support was examined for preservice credit, rejected per IWF-3400, repaired, and reinspected.
- Note 13 Support #380009 was examined for second period credit instead of support #405707.
- Note 14 This exam was performed while in the area performing exams on adjacent components. It is not for code credit.
- Note 15 NDE indications were noted and reported. However, they were dispositioned as acceptable per the applicable section of the ASME code.
- Note 16 This support was rejected during last period and is being re-examined in accordance with the requirements of IWF-2420(b).
- Note 17 This is a new weld added during the steam generator replacement project and was examined for preservice credit.

- Note 18 This weld was examined in accordance with the requirements of code case N-481, paragraph (b).
- Note 19 The reactor coolant pump flywheel high stress keyway and bore were examined per Reg. Guide 1-14, for second period, second interval credit.
- Note 20 A 70 degree UT scan was also performed to assure comprehensive coverage.
- Note 21 This weld was examined during the 1991 midcycle shutdown. It is located in the Class 2, containment penetration portion of a piping system. These welds will be added to the ten-year ISI program and examined in accordance with the 1980 Edition, including the Winter 1981 Addenda of the ASME Boiler and Pressure Vessel Code, Section XI.
- Note 22 This support has been removed from the piping system. The removal was verified during this refueling outage.

SECTION 11

CORRECTIVE MEASURES RECOMMENDED AND TAKEN

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/06/93
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California 440 42-92-17112
(Address)

4. Identification of System Feedwater Piping Support

5. (a) Applicable Construction Code 19 Edition, Addenda, Code Cases (SEE ATTACHMENT)
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Pipe Support | Bechtel | - | - | - | 412012 | 1975 | Modification | No |
| | Fluor | - | - | - | | 1992 | Modified | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other ☒ - NOT APPLICABLE
Pressure psi Test Temp. °F
9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] January 26, 1992
(Owner or Owner's Designee) Title Date

CERTIFICATE OF COMPLIANCE

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, employed by HJB-T-6 of Hartford, CT have inspected the Fluor Imopel Replaced described in this Report (Repair(s) or Replacement(s)) on Dec 08, 1992 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12 FEB 93 YORK AND CT 1137
11 FEB 93 [Signature] Commissions [Signature]
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/05/93
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System Feedwater Piping Support
- 5(a) Applicable Construction Code: Original supports were fabricated to ANSI B31.7 requirements which invoked AISC for design, MSS-SP-58 for fabrication and AWS for welding. Replacement supports invoke AISC, MSS-SP-58 and AWS D1.1-1990 Edition for welding.
7. Replacement steam generator necessitated a portion of feedwater piping be replaced. This piping replacement necessitated an adjustment in the subject piping support.
- Work was performed per AWO M2-92-19118.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/15/92
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California AWC - 112-92-17852
(Address)

4. Identification of System Feedwater Piping Support

5. (a) Applicable Construction Code 19 Edition, Addenda, Code Cases (SEE ATTACHMENT)
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Pipe Support | Bechtel | - | - | - | 412917 | 1975 | Modified | No |
| | Fluor | - | - | - | | 1992 | Modification | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other ✓ - NOT APPLICABLE
Pressure psi Test Temp. °F
9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed G. Edwin Santor 1/20/93 19 93
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by HOBAS of WATERFORD, CT have inspected the REPAIR BY MODERN described in this Report
(Repair(s) or Replacement(s))

on December 7, 1992 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12 FEB 93 EYORK ANI Commissions CT 1137
11 FEB 93 (Inspector) (State or Province National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/15/92
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System Feedwater Piping Support

5(a) Applicable Construction Code: Original supports were fabricated to ANSI B31.7 requirements which invoked AISC for design, MSS-SP-58 for fabrication and AWS for welding. Replacement supports invoke AISC, MSS-SP-58 and AWS D1.1-1990 Edition for welding.

7. Replacement steam generator necessitated a portion of feedwater piping be replaced. This piping replacement necessitated an adjustment in the subject piping support.

Work was performed per AWO M2-92-17852.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/23/92
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California M2-92-17832
(Address)

4. Identification of System Steam Generator #1 - Arc Strike Repair

5. (a) Applicable Construction Code ASME Section III 1983 Edition, Summer '84 Addenda, Code Cases NA
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, B1W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|---------------|-----------------------------------|-------------------------------|
| Steam Generator | B&W | 761201 | 123 | | | 1983 1984S | Repair | Yes |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 1250 psi Test Temp. 140°F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Repair conforms to Section XI of the ASME Code. (Repair or replacement)

Signed Albert M. Lina Engineer Title January 26, 19 93
(Owner or Owner's Designee) (Date)

CERTIFICATE OF COMPLIANCE

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NY, employed by ASBTECO of Hartford, CT have inspected the REPAIR described in this Report
(Repair(s) or Replacement(s))

on Dec 8, 19 92 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

26 Jan 1993 John A. II CT 1137 NB9324
Date (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/23/92
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System Steam Generator #1 - Arc Strike Repair
7. Description of Work: Arc strike was removed by grinding. Surface NDE was performed after grinding. Work was performed per AWO M2-92-17832.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/22/92
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California AWC 172-92-17134
(Address)
4. Identification of System Reactor Coolant - Pressurizer Surge Line Support
5. (a) Applicable Construction Code 19 Edition, Addenda, Code Cases (SEE ATTACHMENT)
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Pipe Support | Bechtel | - | - | - | 408017 | 1975 | Modified | No |
| | Fluor | - | - | - | 408017 | 1992 | Modification | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other ☒ - NOT APPLICABLE
Pressure psi Test Temp. °F
9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed William L. Lewis January 26, 19 93
(Owner or Owner's Designee) Title Date

CERTIFICATE OF COMPLIANCE

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, employed by HB+JL of Waterford, CT have inspected the Reactor Coolant - Pressurizer Surge Line Support described in this Report (Repairs or Replacement(s)) on 03 Jan, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12 FEB 93 York Ave CT 06137
Paul Commissions 1145047
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/22/92
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System Reactor Coolant - Pressurizer Surge Line Support

5(a) Applicable Construction Code: Original supports were fabricated to ANSI B31.7 requirements which invoked AISC for design MSS-SP-58 for fabrication and AWS for welding. Modification invoked AISC, MSS-SP-58 and AWS D1.1-1990 Edition for welding.

7. Modification entailed cutting off 9 inches of beam end. This end provided no structural strength to remaining support.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/06/93
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California AWO 172-92-14235
(Address)

4. Identification of System Steam Generator #1 - Instrument Nozzle Repair

5. (a) Applicable Construction Code ASME III 1983 Edition, SB4 Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|---------------|-----------------------------------|-------------------------------|
| Steam Generator | B&W | 761201 | 123 | | | 1983 1984S | Repaired | Yes |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 1250 psi Test Temp. 140°F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] January 26, 1993
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF COMPLIANCE

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, employed by HARTFORD, CT of HARTFORD, CT have inspected the Repair described in this Report (Repair(s) or Replacement(s))

on Dec 8, 1992 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 26 Jan 1993 [Signature] ANI Commissions NA 5042 41137 NB9324
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/06/93
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System Steam Generator #1 - Instrument Nozzle Repair

7. Description of Work: During installation of the steam generator subassembly a nozzle was damaged by the grinding of adjacent girth weld. Weld repair of nozzle was performed. Work was performed per AWO M2-92-16235.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/03/92
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California M2-92-07339, M2-92-09857
(Address)

4. Identification of System Main Steam Support

5. (a) Applicable Construction Code 19 Edition, See Attachment Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Support 312009 H2 | Bechtel | N/A | N/A | N/A | N/A | 1975 | Replaced | No |
| | Fluor | N/A | N/A | N/A | N/A | 1992 | Replacement | No |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other ☒ - NOT APPLICABLE
Pressure psi Test Temp. °F
9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed William L. Egan January 26, 1993
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by NSRI-IG of Waterford, CT have inspected the Replacement described in this Report (Repair(s) or Replacement(s)) on December 09, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12 FEB 93 EXORLANT Commissions CT 1137
W. L. Egan (Inspector) AN (State or Province, National Board) 42

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/03/92
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System Main Steam Support

5(a) Original Code of Construction for piping was ANSI B31.7 and ASME Section III. Both these codes invoked MSS-SP-58 for support components and fabrications. The replacement support components were fabricated to MSS-SP-58, 1988 Edition.

7. Work Description: Steam generator replacement necessitated modification of a main steam piping hanger support (34-EBB-2, Hanger 2). Modification required installation of new spring hanger.

*Work performed per AWO M2-92-07339 and M2-92-09857,
G. Salvo 1/26/93*

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California AWO H2-92-11390 MANUAL
(Address) CADDET
2-92-016

4. Identification of System RBCCW - Bolting Replacement

5. (a) Applicable Construction Code B31.1 1983 Edition, No Addenda, Code Cases N/A (SEE ATTACHMENT)
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|------------------------------|------------|-----------------------------------|-------------------------------|
| RBCCW Piping | Bechtel | | | | 6-HBD(B)-125 3-HBD(B)-125 | 1975 | Replaced | No |
| | Fluor | | | | 3-HBD(B)-125 6-HBD(B)-125 | 1992 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 175 psi Test Temp. 75°F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Charles L. Egan January 26, 1993
(Owner or Owner's Designer) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by HERI, INC. of Waterford, CT have inspected the REPLACEMENT described in this Report
(Repairs or Replacement(s))
on November 28, 1993 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12 FEB 93 E. YOR KANE CT1137
11 FEB 93 R. W. Kane INSPECTOR
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System RBCCW - Bolting Replacement

5(a) Applicable Construction Code: Original Construction Code was ANSI B31.1-1967 and modified by Bechtel specification. Replacement was performed per ANSI B31.1-1983 Edition

7. Description of Work: Bolting replacement was performed on 6-HBD(B)-125 and 3-HBD(B)-125. Work was performed per AWO M2-92-11340 and M2-92-00016. *Hydrostatic Test per M2-92-14067*

Replacement bolting materials were as follows:

3/4 inch - SA 193, Grade B7 HT #VV
3/4 inch - SA 194, Grade 2H HT #045
5/8 inch - SA 193, Grade B7 HT #PP
5/8 inch - SA 194, Grade 2H HT #CB

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/15/92
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California AWO 72-92-11291
(Address) 72-92-14087

4. Identification of System RBCCW

5. (a) Applicable Construction Code B31.1 1983 Edition, No Addenda, Code Cases N/A (SEE ATTACHMENT)
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| RBCCW Piping | Bechtel | - | - | | 6-HBD(B)-125 | 1975 | Replaced | No |
| | Fluor | - | - | | 6-HBD(B)-125 | 1992 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 175 psi Test Temp. 75°F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Alan H. Hines, Jr. 1/20, 19 93
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by HSB&IG of Waterford, CT have inspected the Replacement described in this Report
(Repair(s) or Replacement(s))
on November 28, 1993 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12 FEB 93 E. YARICANI CT1137
11 FEB 93 PH Commissions None
(Inspector) (State or Province National Board) 39

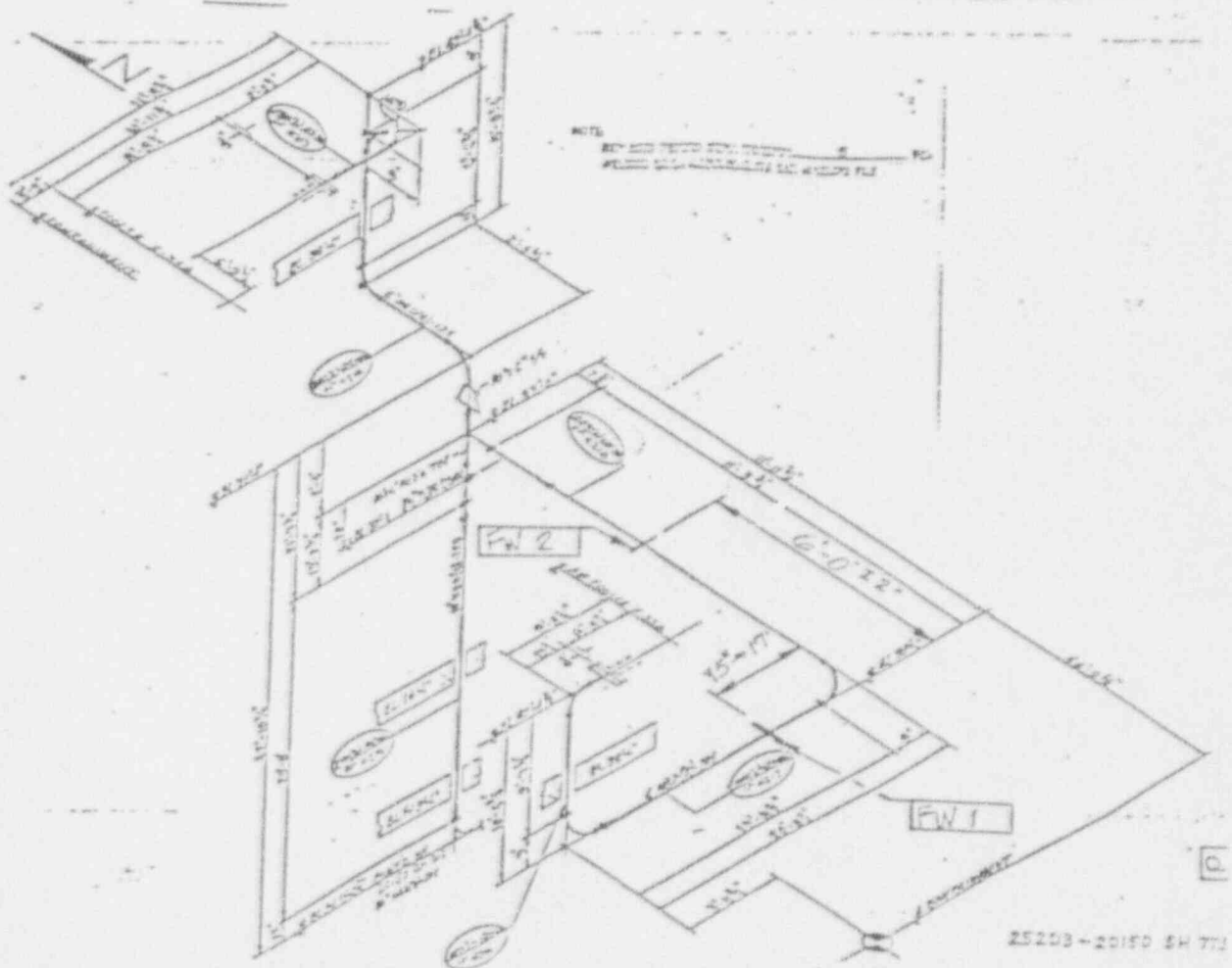
NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2 in. x 11 in.; (2) information in Items 1 through 4 on this data report is included on each sheet; and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/15/92
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System RBCCW

5(a) Applicable Construction Code: Original Construction Code was ANSI B31.1-1967 and modified by Bechtel specification. Replacement was performed per ANSI B31.1-1983 Edition.

7. Description of Work: Replacement comprised of the removal and reinstallation of a section of 6-inch diameter piping. Two new welds were added to piping. Original piping materials were reused. Work was performed per AWO M2-92-11291.



FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/23/92
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address) AWO M2-92-15267

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III 1971 Edition, Summer '71 Addenda, Code Cases NA
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| RCS Piping | Bechtel | - | - | - | 2-CCA-14 | 1975 | Modified | Yes(NA) |
| | Fluor | - | - | - | 2-CCA-14 | 1992 | No | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 2295 psi Test Temp. 532°F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Anthony J. Egan February 11, 19 93
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by HSBI-IG of Waterford, Ct have inspected the Reactor Coolant System described in this Report
(Repairs or Replacement(s))
on Jan 08, 1993 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12 FEB 93 EYORK ANI CT1137
11 FEB 93 Inspector Commissions 224502
(Inspector) (State or Province, National Board) 38

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/23/92
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)

4. Identification of System Reactor Coolant System

7. Description of Work: Pipe segments were removed to facilitate RCS piping debris removal. Pipe returned to original configuration with exception of a socket weld coupling added. (Reference Drawings 25203-20152, Sheets 2 and 143). Work performed per AWO M2-92-15267. Coupling material HT: 1G5099/DBK

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/15/92
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California FWO-12-92-10175
(Address)

4. Identification of System Feedwater

5. (a) Applicable Construction Code ASME Section III 1983 Edition, 84S Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|----------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Feedwater Pipe Elbow | Connex | - | - | | SBA CS-3428-2 | 1992 | Repaired | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 1250 psi Test Temp. 140°F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Alan Shive Senior Engineer January 26, 19 93
(Owner or Owner's Designer) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by HSBI-IG of Waterford, CT have inspected the Repair described in this Report
(Repair(s) or Replacement(s))

on February 12, 1993 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

12 FEB 93 YORK ANI CT 1137
Date 12 FEB 93 PH Commissions 1215012
(Inspector) (State or Province, National Board)

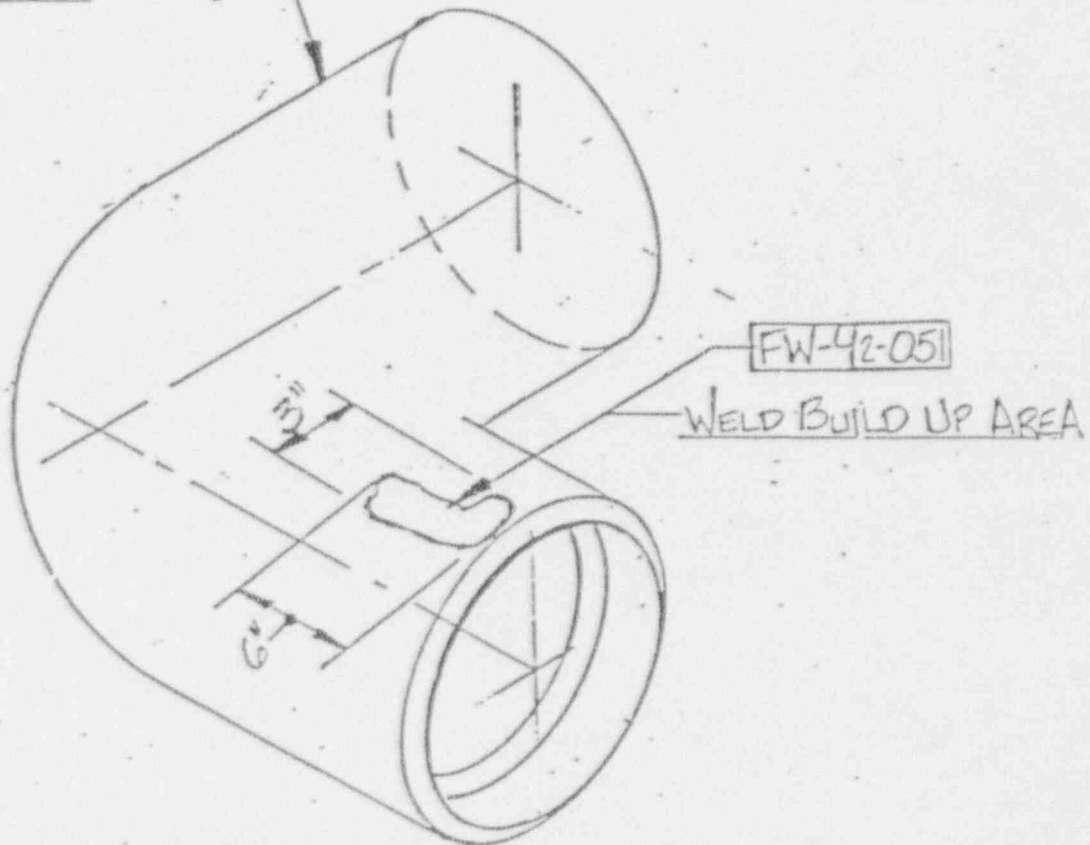
NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2 in. x 11 in.; (2) information in items 1 through 4 on this data report is included on each sheet; and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/15/92
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System Feedwater

7. Feedwater pipe elbow required weld buildup to meet minimum wall requirements. See Sketch below.
Work performed per AWO M2-92-10175.

18" SCH 160 ELBOW
SN/SBA-3



FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/03/92
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System Steam Generator #2 - Blowdown
5. (a) Applicable Construction Code 19 Edition, N/A Addenda, Code Cases See Attached
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components
- | Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Pipe Supports | Fluor | N/A | N/A | N/A | N/A | 1992 | Replacement | No |
| | Bechtel | N/A | N/A | N/A | N/A | 1975 | Replaced | No |
| | | | | | | | | |
| | | | | | | | | |
7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other ✓ - N/A
Pressure psi Test Temp. °F
9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Alphonse San Emme January 30, 19 93
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF COMPLIANCE

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NY, employed by NSI-1 of CT have inspected the REPLACEMENT described in this Report
(Repair(s) or Replacement(s))

on 28 Dec, 19 92 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-26-93 E. J. ANZ CT1137
(Inspector) Commissions (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/03/92
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)

4. Identification of System Steam Generator #2 - Blowdown

5(a) Applicable Construction Code: Original supports were fabricated to ANSI B31.7 requirements which invoked AISC for design, MSS-SP-58 for fabrication and AWS for welding. Replacement supports invoke AISC, MSS-SP-58 and AWS D1.1-1990 Edition for welding.

7. Replacement steam generator necessitated portions of blowdown piping be redesigned and replaced. The replacement blowdown piping required new support design and installation. See attached sketches for new support locations.

| SUPPORT IDENTIFICATION | DRAWING | WORK ORDER |
|------------------------|---------------------|-------------|
| 60386 (SHOP) | 86242-22200-60386* | M2-91-11876 |
| 60387 (SHOP) | 86242-22200-60387* | M2-91-11876 |
| 60388 (SHOP) | 86242-22200-60388* | M2-91-11876 |
| 60390 (SHOP) | 86242-22200-60390* | M2-91-11876 |
| 60386 (FIELD) | 86242-22200-60386 | M2-92-01763 |
| 60387 (FIELD) | 86242-22200-60387 | M2-92-01763 |
| 60388 (FIELD) | 86242-22200-60388 | M2-92-01763 |
| 60389 (FIELD) | 86242-22200-60389 | M2-92-01763 |
| 60390 (FIELD) | 86242-22200-60390 | M2-92-01763 |
| 60386 ** | 86242-22200-60386 | M2-92-04584 |
| 60387 ** | 86242-22200-60387 | M2-92-04584 |
| 60391 ** | 86242-22200-60391 | M2-92-04584 |
| | | |
| Hanger 2 | 86242-22200-491356A | M2-92-04129 |
| Hanger 3 | 86242-22200-491356B | M2-92-04129 |
| Hanger 4 | 86242-22200-491356C | M2-92-04129 |
| Hanger 6 | 86242-22200-491356C | M2-92-04129 |
| Hanger 2 | 86242-22200-491357B | M2-92-04129 |
| Hanger 2 | 86242-22200-491357 | M2-92-04129 |

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut (Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California AWO 172-92-10820
(Address)

4. Identification of System RBCCW Piping Support

5. (a) Applicable Construction Code 19 Edition, Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Pipe Support | Bechtel | | | | 305581 | 1975 | Replaced | No |
| | Bechtel | | | | 450172 | 1975 | Replaced | No |
| | Fluor | | | | 305581 | 1992 | Replacement | No |
| | Fluor | | | | 450172 | 1992 | Replacement | No |

7. Description of Work See Attachment

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other ☒ NOT APPLICABLE
Pressure psi Test Temp. °F

9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed William L. Egan January 26, 1993
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by H&B-I-G of Hartford CT have inspected the Replacement described in this Report
(Repair(s) or Replacement(s))

on Nov. 23, 1992 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Jan 93 Evan ANI CT1137
(Inspector) Commissions 1145647
(State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System RBCCW Piping Support

5(a) Applicable Construction Code: Original supports were fabricated to ANSI B31.7 requirements which invoked AISC for design, MSS-SP-58 for fabrication and AWS for welding. Replacement supports invoke AISC, MSS-SP-58 and AWS D1.1-1990 Edition for welding.

7. Replacement steam generator necessitated a portion of feedwater piping be replaced. This piping replacement necessitated the temporary removal and reinstallation of two supports. Hangers replaced were H-1 on Drawing 25203-22200, Sheet 305581 and H-13, R-15 on Drawing 25203-22200, Sheet 450172.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/03/92
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)

4. Identification of System Steam Generator #1 - Blowdown

5. (a) Applicable Construction Code 19 Edition, N/A Addenda, Code Cases See Attached
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases N/A

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Pipe Supports | Fluor | N/A | N/A | N/A | N/A | 1992 | Replacement | No |
| | Bechtel | N/A | N/A | N/A | N/A | 1975 | Replaced | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work See Attachment

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other ☒ - N/A
Pressure psi Test Temp. °F

9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Arthur J. Enner January 28, 19 93
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by HEBI-IG of HARTFORD, CT have inspected the Replacement described in this Report
(Repairs or Replacement(s))

on Dec 8, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 26 Dec 93 Edward A. [Signature] Commissions 2245612
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/03/92
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)

4. Identification of System Steam Generator #1 - Blowdown

5(a) Applicable Construction Code: Original supports were fabricated to ANSI B31.7 requirements which invoked AISC for design, MSS-SP-58 for fabrication and AWS for welding. Replacement supports invoke AISC, MSS-SP-58 and AWS D1.1-1990 Edition for welding.

7. Replacement steam generator necessitated portions of blowdown piping be redesigned and replaced. The replacement blowdown piping required new support design and installation. See attached sketches for new support locations.

| SUPPORT IDENTIFICATION | DRAWING | WORK ORDER |
|------------------------|---------------------|-------------|
| 60395 (SHOP) | 86242-22200-60395* | M2-91-11876 |
| 60396 (FIELD) | 86242-22200-60396 | M2-92-01762 |
| 60397 (FIELD) | 86242-22200-60397 | M2-92-01762 |
| 60395 (FIELD) | 86242-22200-60395 | M2-92-01762 |
| 60395 ** | 86242-22200-60395 | M2-92-04583 |
| 60396 ** | 86242-22200-60396 | M2-92-04583 |
| NO. 4 ** | 86242-22200-491354E | M2-92-04583 |
| NO. 3 ** | 86242-22200-491355C | M2-92-04583 |
| NO. 4 | 86242-22200-491354D | M2-92-04128 |
| NO. 5 | 86242-22200-491354F | M2-92-04128 |
| NO. 6 | 86242-22200-491354G | M2-92-04128 |
| NO. 3 | 25203-22200-491354C | M2-92-18559 |

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 1 of 4
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California M2-92-10672
(Address) M2-92-01611

4. Identification of System Steam Generator #2 - Blowdown Piping

5. (a) Applicable Construction Code ASME III 1971 Edition, No Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Blowdown Piping | Bechtel | | | | | 1975 | Replaced | Yes (N/A) |
| | Fluor | | | | | 1992 | Replacement | No |
| | | | | | | | Replacement | Yes |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 1250 psi Test Temp. 140°F
9. Remarks See attached sheet for valves
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] Title Owner Date February 10, 1993
(Owner or Owner's Designer)

CERTIFICATE OF COMPLIANCE

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, employed by H&B-I-G of WATERFORD, CT have inspected the REPLACEMENT described in this Report (Repair(s) or Replacement(s)) on December 08, 1993 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12 FEB 93 EXOR ANI CT1137
11 FEB 93 [Signature] Commissions NY 542
(Inspector) (State or Province, National Board)

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 3 through 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

| | | |
|-----------------------------|---|--|
| 1. Owner | <u>Northeast Nuclear Energy Company</u> (Name) <u>Waterford, Connecticut</u> (Address) | Date <u>1/08/93</u> Sheet <u>2</u> of <u>4</u> |
| 2. Plant | <u>Millstone</u> (Name) <u>Waterford, Connecticut</u> (Address) | Unit <u>Two</u> |
| 3. Work Performed by | <u>Fluor Constructors</u> (Name) <u>Irvine, California</u> (Address) | <u>Fluor Constructors</u> Repair Organization P.O. No., Job No., etc. <u>M2-92-10672</u> <u>M2-92-01611</u> |
| 4. Identification of System | <u>Steam Generator #2 - Blowdown Piping</u> | |

- 5(a) Original field installation was performed in accordance with ASME Section III, 1971 Edition. Valves were originally installed in accordance with various ASME Code editions including ASME Draft Pump and Valve Code. Replacement valves were manufactured to ASME Section III, 1986 Edition.
6. Bechtel field installation was NA stamped in accordance with ASME Section III, 1971. Dravo spool pieces were fabricated in accordance with ANSI B31.7 and provided with NPP-1 form. Replacement piping materials for this replacement were procured in accordance with ASME Section III, 1983 Edition including Summer, 1984 Addenda. Field installation was in accordance with ASME Section III, 1971 Edition.
7. Blowdown piping was replaced from steam generator nozzle out to connection to existing 2 inch blowdown piping within containment.

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Valves | * | ** | | | | | | |
| 4"-Gate | A-D | -7-7 | N/A | - | 2-MS-454B | 1992 | Replacement | Yes |
| 4"-Gate | A-D | -7-8 | N/A | - | 2-MS-455B | 1992 | Replacement | Yes |
| 4"-Gate | A-D | -7-9 | N/A | - | 2-MS-456B | 1992 | Replacement | Yes |
| 4"-Gate | A-D | -7-10 | N/A | - | 2-MS-457B | 1992 | Replacement | Yes |
| 2"-Globe | A-D | -5-5 | N/A | - | 2-WL-27B | 1992 | Replacement | Yes |
| 2"-Globe | A-D | -5-7 | N/A | - | 2-WL-29B | 1992 | Replacement | Yes |
| 2"-Globe | A-D | -5-30 | N/A | - | 2-MS-12A | 1992 | Replacement | Yes |
| | | | | | | | | |

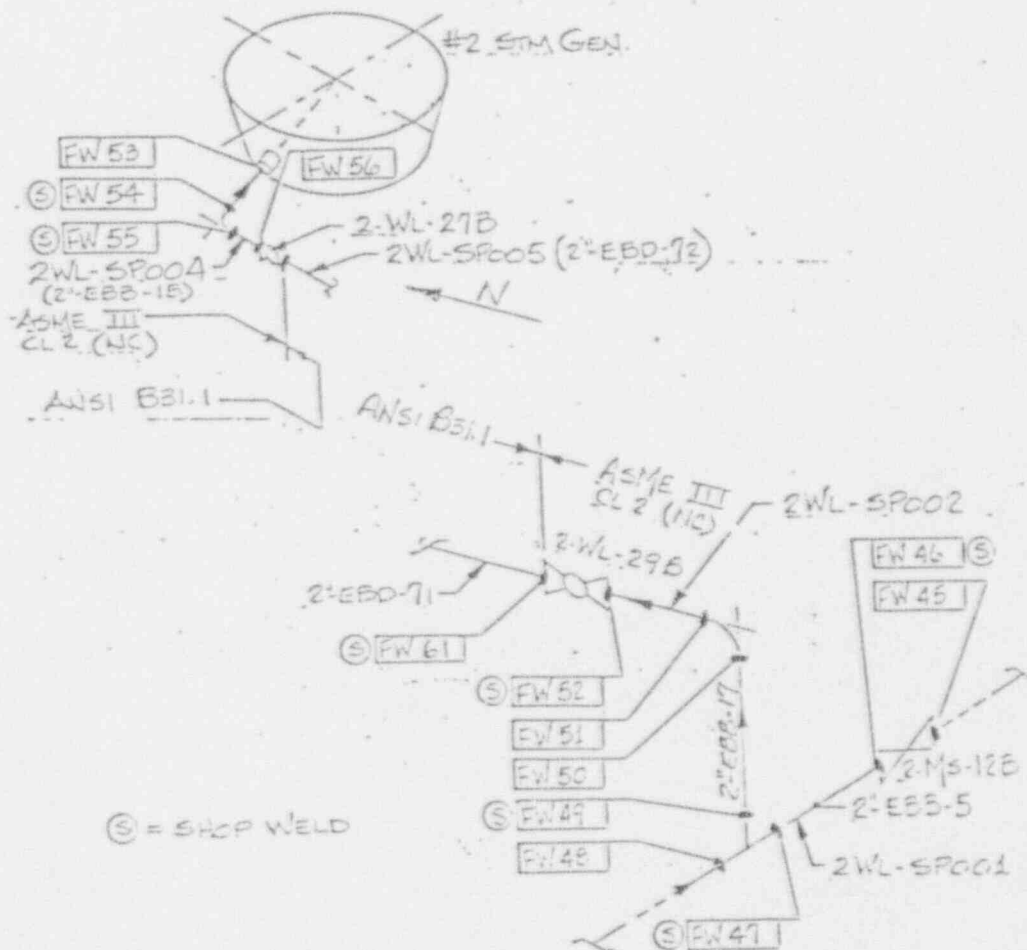
- * Manufacturer - Anchor Darling (A-D)
** Manufacturers Serial Number Prefix E-T022-

A 15/rev 150RPS59

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

| | | |
|-----------------------------|---|---|
| 1. Owner | <u>Northeast Nuclear Energy Company</u> (Name) <u>Waterford, Connecticut</u> (Address) | Date <u>1/08/93</u> |
| 2. Plant | <u>Millstone</u> (Name) <u>Waterford, Connecticut</u> (Address) | Sheet <u>4</u> of <u>4</u> |
| 3. Work Performed by | <u>Fluor Constructors</u> (Name) <u>Irvine, California</u> (Address) | Unit <u>Two</u> <u>Fluor Constructors</u> Repair Organization P.O. No., Job No., etc. |
| 4. Identification of System | <u>Steam Generator #2 - Blowdown Piping</u> | |

FIGURE
Wet Layup Piping



⊙ = SHOP WELD

| | |
|---------------------------------|--------------------|
| TITLE: IDENT SCHEMATIC | |
| SUBJECT: ELBOW DOWN LINE LAYOUT | |
| DATE: 1/11/93 | BY: JLB |
| REV: 1 | DESCRIPTION: 2\"/> |

8. Remarks 4"-600#-FW Valve for E-T022-7, Gasket Retainer SA515-709. Design conditions 1095 psi 600 °F or valve pressure class 600 (11)
(pressure) (temperature)10. Cold working pressure 1480 psi at 100°F11. Hydrostatic test 2225 psi Disk differential test pressure 1628 (11)

CERTIFICATION OF DESIGN

Design Specifications certified by Kenneth T. Roberts P.E. State Connecticut Reg. no. 16915
Design Report certified by Theron C. Bartlett II P.E. State PA Reg. no. PE-039036-11

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. 41712 Expires 4/15/92Date 4-3-92 Name Anchor/Darling Valve Company signed Mary D. Larson
(N Certificate holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of~~ Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 11-791 Rev 4-7, 19 92 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 4-7-92 Signed Charles J. Gundy Commission Pennsylvania 2392
(N Certificate holder) (N.B. Bd. Ins. and environmental state or prov. and no.)

(1) For manually operated valves only.

1. Manufactured and certified by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701

(Name and address of A Certificate Holder)

2. Manufactured for Fluor Constructors International, Inc., P.O. Box 575, Waterford, CT 06385

Name and address of Purchaser or Owner

3. Location of installation Millstone Nuclear Power Station, Rope Ferry Rd., Rt. 156, Waterford, CT 06185

(name and address)

4. Model No., Series No., or Type FW Drawing W9123593 Rev. B CRN ---

5. ASME Code, Section III, Division 1: 1986 ---- 2 ----
(Edition) (Addenda letter) (Class) (Code Case No.)

6. Pump or valve Valve Nominal inlet size 4" Outlet size 4"
(in.) (in.)

7. Material: Body SA216-WCB Bonnet SA105 Disk SA216-WCB Bolting N/A

[illegible]

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

(12/88)

This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2000, Fairfield, NJ 07007-2000.

8. Remarks 4"-600#-FW Valve for E-T022-7, Gasket Retainer SA515-70

9. Design conditions 1095 psi 600 °F or valve pressure class 600 (1)

10. Cold working pressure 1480 psi at 100°F

11. Hydrostatic test 2225 psi. Disk differential test pressure 1628 psi

CERTIFICATION OF DESIGN

Design Specification certified by Kenneth T. Roberts P.E. State Connecticut Reg. no. 16915
Design Report certified by Theron C. Bartlett II P.E. State PA Reg. no. PE-039036-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712

Expires 4-15-95

Date 4-15-92

Name Anchor/Darling Valve Company Signed Harry R. Larson
(N Certificate Holder)

(Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State Board of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 11-2-91 at 4-22, 19 92, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component 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 4-20-92 Signed Charles W. Young Commissions Pennsylvania 2392
(Natl. Bd. and endorsement) state or prov. and no.

(1) For manually operated valves only.

As Required by the Provisions of the ASME Code, Section III, Division 1

P3

C

[illegible]

(12/96)

This form (E200027) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

B. Remarks 2"-1878#-GB for E-T022-5

9. Design conditions 3425 (pressure) psi 600 (temperature) °F or valve pressure class 1878 (1)

10. Cold working pressure 4635 psi at 100°F

11. Hydrostatic test 6975 psi. Disk differential test pressure 5101 psi

CERTIFICATION OF DESIGN

Design Specification certified by Kenneth T. Roberts P.E. State Connecticut Reg. no. 16915
Design Report certified by Theron C. Bartlett II P.E. State PA Reg. no. PE-039036-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712 Expires 4/15/92

Date 1-30-92 Name Anchor/Darling Valve Company Signed Harry D. Larson
(IN Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~XXXXXX~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 2-90-9064-2-18, 19 92, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component 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 2-18-92 Signed Charles E. Young Commissions Pennsylvania 2392
(Date and signature of inspector) (Natl. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

1.- Manufactured and certified by _____ (name and address of N Certificate Holder)

2. Manufactured for Floor Constructors International, Inc.
(name and address of Purchaser or Owner)

3. Location of installation At Ft. Belvoir, Aberdeen, Md. (name and address)

4. Model No., Series No., or Type DD Drawing W9123592 Rev. A CRN

5. ASME Code, Section III, Division 1: 1986 (edition) 1 (addenda date) 1 (class) 1 (Code Case no.)

6. Pump or valve Valve Nominal inlet size 2 (in.) Outlet size 2 (in.)

7. Material: Body SA216-WCB Bonnet SA216-WCB Disk ANS-5387 Bolting N/A

[illegible]

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

This form (E60037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2000, Fairfield, NJ 07007-2000.

FORM NPV-1 (BACK)
E. Remarks 2"-1700#-DD for E-T022-6

9. Design conditions 3425 psi 600 °F or valve pressure class 1700 (1)
(pressure) (temperature)
10. Cold working pressure 4198 psi at 100°F
11. Hydrostatic test 6300 psi. Disk differential test pressure 4618 psi

CERTIFICATION OF DESIGN

Design Specification certified by Kenneth T. Roberts P.E. State Connecticut Reg. no. 16915
Design Report certified by Theron C. Bartlett II P.E. State PA Reg. no. PE-039036-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712 Expires 4/15/92
Date 1-30-92 Name Anchor/Darling Valve Company Signed Harry R. Larson
(IN Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~XXXXXX~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on Y-39-881A-26, 19 92, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component 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 2-6-92 Signed Charles Young Commissions Pennsylvania 2392
(Inspector) (Natl. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 1 of 4
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California M2-92-10672
(Address) M2-92-01610
4. Identification of System Steam Generator #1 - Blowdown Piping
5. (a) Applicable Construction Code ASME III 1971 Edition, No Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Blowdown Piping | Bechtel | | | | | 1975 | Replaced | Yes (N/A) |
| | Fluor | | | | | 1992 | Replacement | No |
| | | | | | | | Replacement | Yes |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure Other
Pressure 1250 psi Test Temp. 140°F
9. Remarks See attached sheet for valves
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] [Signature] February 10, 1993
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by HCB-IG of Waterford, CT have inspected the Replacement described in this Report (Repair(s) or Replacement(s))

on December 08, 1992 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12 FEB 93 [Signature] AN CT 1137
11 FEB 93 (Inspector) (State or Province National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 2 of 4
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Flyor Constructors Flyor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California M2-92-10672
(Address) M2-92-01610

4. Identification of System Steam Generator #1 - Blowdown Piping

- 5(a) Original field installation was performed in accordance with ASME Section III, 1971 Edition. Valves were originally installed in accordance with various ASME Code editions including ASME Draft Pump and Valve Code. Replacement valves were manufactured to ASME Section III, 1986 Edition.
6. Bechtel field installation was NA stamped in accordance with ASME Section III, 1971. Dravo spool pieces were fabricated in accordance with ANSI B31.7 and provided with NPP-1 form. Replacement piping materials for this replacement were procured in accordance with ASME Section III, 1983 Edition including Summer, 1984 Addenda. Field installation was in accordance with ASME Section III, 1971 Edition.
7. Blowdown piping was replaced from steam generator nozzle out to connection to existing 2 inch blowdown piping within containment.

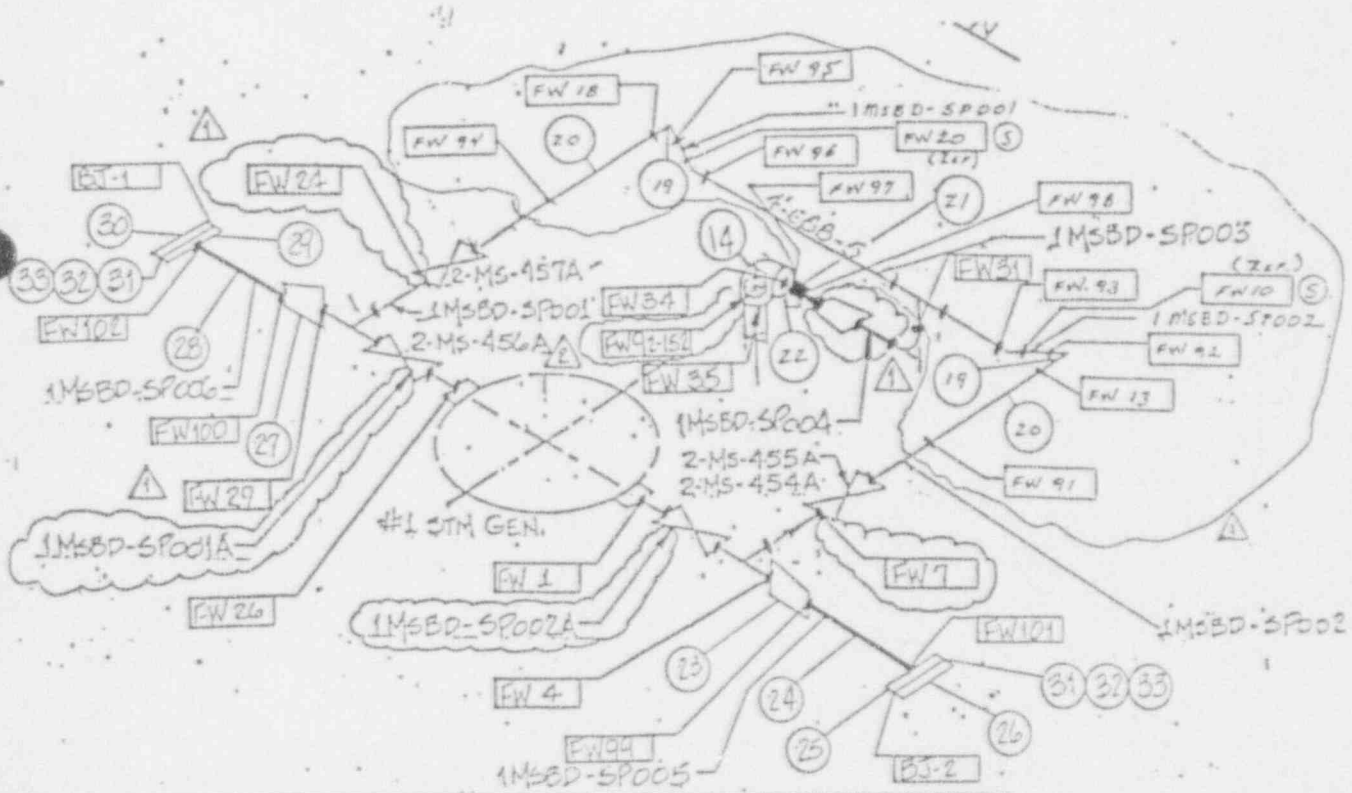
| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Valves | * | ** | | | | | | |
| 4"-Gate | A-D | -7-3 | N/A | - | 2-MS-454A | 1992 | Replacement | Yes |
| 4"-Gate | A-D | -7-4 | N/A | - | 2-MS-455A | 1992 | Replacement | Yes |
| 4"-Gate | A-D | -7-5 | N/A | - | 2-MS-456A | 1992 | Replacement | Yes |
| 4"-Gate | A-D | -7-6 | N/A | - | 2-MS-457A | 1992 | Replacement | Yes |
| 2"-Globe | A-D | -5-1 | N/A | - | 2-WL-27A | 1992 | Replacement | Yes |
| 2"-Globe | A-D | -5-3 | N/A | - | 2-WL-29A | 1992 | Replacement | Yes |
| 2"-Gate | A-D | -5-29 | N/A | - | 2-MS-12A | 1992 | Replacement | Yes |
| | | | | | | | | |

- * A-D is Anchor Darling
** Manufacturers Serial Number Prefix E-T022-

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

| | | |
|-----------------------------|---|--|
| 1. Owner | <u>Northeast Nuclear Energy Company</u> (Name) <u>Waterford, Connecticut</u> (Address) | Date <u>1/08/93</u> Sheet <u>3</u> of <u>4</u> |
| 2. Plant | <u>Millstone</u> (Name) <u>Waterford, Connecticut</u> (Address) | Unit <u>Two</u> |
| 3. Work Performed by | <u>Fluor Constructors</u> (Name) <u>Irvine, California</u> (Address) | <u>Fluor Constructors</u> Repair Organization P.O. No., Job No., etc. |
| 4. Identification of System | <u>Steam Generator #1 - Blowdown Piping</u> | |

FIGURE
Blowdown Piping



| | | | | |
|---|-----------|---------|----------------|-----------------------|
| 3 | At 7/1/92 | 5/1/92 | TITLE | JOINT IDENT MAP. |
| 2 | At 7/1/92 | 10/1/92 | | BLOWDOWN PIPING #1 SG |
| 1 | At 7/1/92 | 10/1/92 | STATION NO. | BND-362 |
| | | | SCALE | NA |
| | | | REFERENCE DES. | PR-242-20116 SH-022 |
| | | | ASME NO. | M2-92-01610 |
| | | | ENCLOSURE NO. | A.1 |

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

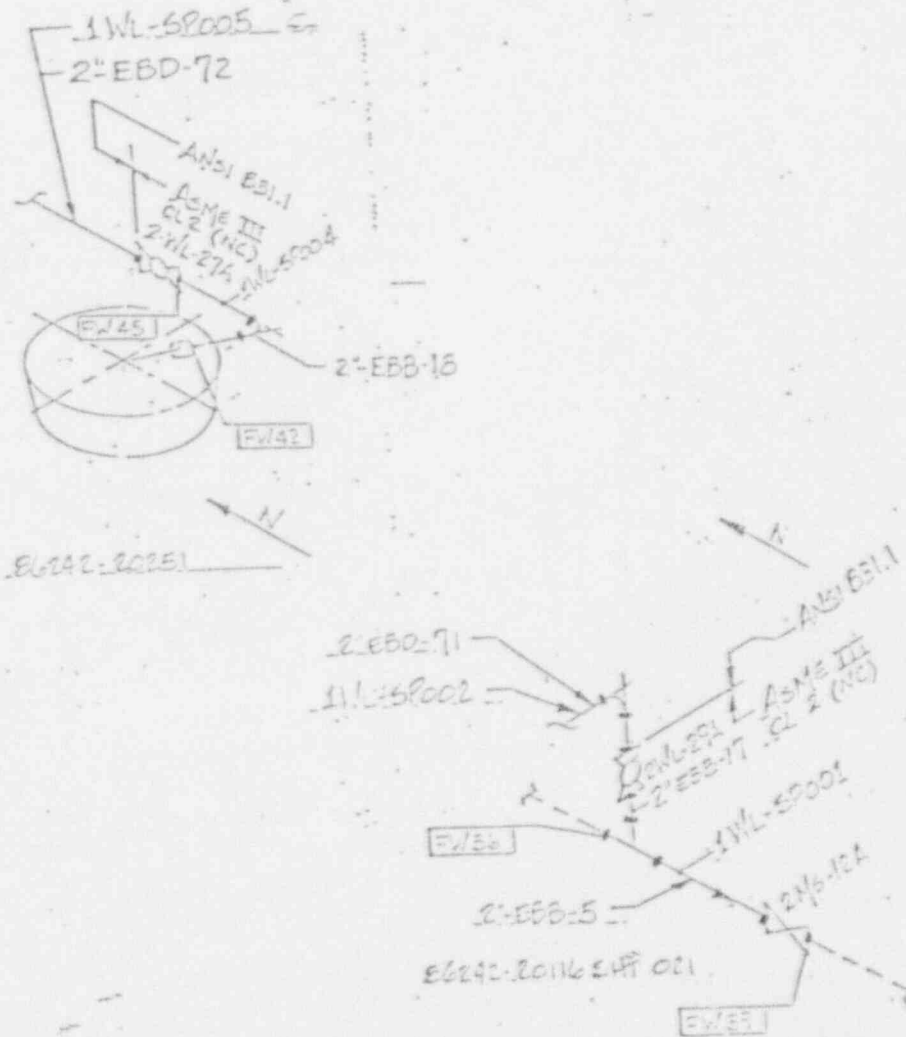
1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 4 of 4
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)

4. Identification of System Steam Generator #1 - Blowdown Piping

FIGURE
Wet Layup Piping



| | | | |
|----------------------|--|--------------------------|--|
| THIS JOINT IDENT MAP | | | |
| WET LAY UP PIPING | | | |
| SECTION NO. EBR-302 | | SCALE NA | |
| C 48-59-5-2-2 | | REFERENCE Dwg. EBR-20251 | |
| REV | | ENCLOSURE NO. 4.1 | |
| DWN BY | | ENCLOSURE NO. 4.1 | |
| DWN BY | | ENCLOSURE NO. 4.1 | |
| DWN BY | | ENCLOSURE NO. 4.1 | |

As Required by the Provisions of the ASME Code, Section III, Division 1

1. Manufactured and certified by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
(Name and address of Manufacturer)
2. Manufactured for Fluor Constructors International, Inc., P.O. Box 575, Waterford, CT 06385
(Name and address of Purchaser or Owner)
3. Location of installation Millstone Nuclear Power Station, Rope Ferry Rd., Rt. 156, Waterford, CT 06385
(Name and address)
4. Model No., Series No., or Type FW Drawing W9123593 Rev. B CRN ----
5. ASME Code Section III, Division 1: 1986 ---- 2 ----
(edition) (edition date) (class) (Code Case No.)
6. Pump or valve Valve Nominal inlet size 4" Outlet size 4"
(in.) (in.)
7. Material Body SA216-WCB Bonnet SA105 Cast SA216-WCB Bolting N/A

[illegible]

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

8. Remarks 4"-600#-FW Valve for E-T022-7, Gasket Retainer SA515-70

9. Design conditions 1095 psi 600 °F or valve pressure class 600 (1)

10. Cold working pressure 1480 psi at 100°F

11. Hydrostatic test 2225 psi Disk differential test pressure 1628 psi

CERTIFICATION OF DESIGN

Design Specification certified by Kenneth T. Roberts P.E. State Connecticut Reg. no. 16915
 Design Report certified by Theron C. Bartlett II P.E. State PA Reg. no. PE-039036-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712 Expires 4/15/92

Date 4-3-92 Name Anchor/Darling Valve Company Signed Larry D. Larson
 (N Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State Department of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 11-291 Item 4-7, 19 92, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 4-7-92 Signed Charles E. Jones Commission No. Pennsylvania 2392
 (Inspector) (Name, Bd. Invol. endorsement(s) state or prov. and no.)

(1) For manually operated valves only.

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

8. Remarks 4"-600#-FW Valve for E-T022-7, Gasket Retainer SA515-70

9. Design conditions 1095 (pressure) psi 600 (temperature) °F or valve pressure class 600 (1)

10. Cold working pressure 1480 psi at 100°F

11. Hydrostatic test 2225 psi. Disk differential test pressure 1628 psi

CERTIFICATION OF DESIGN

Design Specification certified by Kenneth T. Roberts P.E. State Connecticut Reg. no. 16915
Design Report certified by Theron C. Bartlett II P.E. State PA Reg. no. PE-039036-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712 Expires 4-15-95
Date 4-15-92 Name Anchor/Darling Valve Company Signed Gary D. Larson
(N Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~Inspector~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 11-2-91 4-20, 19 92, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component 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 4-20-92 Signed Charles J. King Commissions Pennsylvania 2392
(Natl. Bd. Insp.) (Inspector) (Natl. Bd. Insp. endorsement) state or prov. and no.

(1) For manually operated valves only.

As Required by the Provisions of the ASME Code, Section III, Division 1

1. Manufactured and certified by Anchor/Darling Valve Co., 701 First Street, Williamsport, PA 17701
(Name and address of N Certificate Holder)

2. Manufactured for Fluor Constructors International Inc., P.O. Box 575, Waterford, CT 06385
(Name and address of Purchaser or Owner)

3. Location of installation Millstone Nuclear Power Station, Rope Ferry Rd., Rtr. 156, Waterford, CT 06385
(Name and address)

4. Model No., Series No., or Type GB Drawing W9123591 Rev. A CRN ---

5. ASME Code, Section III, Division 1: 1986 --- 2 ---
(edition) (addenda date) (class) (Code Case no.)

6. Pump or valve Valve Nominal inlet size 2" Outlet size 2"
(in.) (in.)

7. Material: Body SA216-WCB Bonnet N/A Disk AMS-5387 Bolting N/A

[illegible]

(12/26)

This form (E80037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

E. Remarks 2"-1878#-GB for E-T022-59. Design conditions 3425 psi 600 °F or valve pressure class 1878 (1)10. Cold working pressure 4635 psi at 100°F11. Hydrostatic test 6975 psi. Disk differential test pressure 5101 psi

CERTIFICATION OF DESIGN

Design Specification certified by Kenneth T. Roberts P.E. State Connecticut Reg. no. 16915
Design Report certified by Theron C. Bartlett II P.E. State PA Reg. no. PE-039036-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712 Expires 4/15/92Date 1-30-92 Name Anchor/Darling Valve Company Signed Harry D. Larson
(N Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~XXXXXX~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 2-90-92 ln 2-18, 19 92 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component 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 2-18-92 Signed Charles Young Commissions Pennsylvania 2392
(Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

As Required by the Provisions of the ASME Code, Section III, Division 1

This form (E30037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

8. Remarks 2"-1700#-DD for E-T022-69. Design conditions 3425 (pressure) psi 600 (temperature) °F or valve pressure class 1700 (1)10. Cold working pressure 4198 psi at 100°F11. Hydrostatic test 6300 psi. Disk differential test pressure 4618 psi

CERTIFICATION OF DESIGN

Design Specification certified by Kenneth T. Roberts P.E. State Connecticut Reg. no. 16915
Design Report certified by Theron C. Bartlett II P.E. State PA Reg. no. PE-039036-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712 Expires 4/15/92Date 1-30-92 Name Anchor/Darling Valve Company Signed Harry R. Larson
(N Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~XXXXXX~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 4-29-88, 19 92, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component 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 2-6-92 Signed Charles E. Young Commissions Pennsylvania 2392
(Inspector) (Natl. Bd. Incl. endorsements; state or prov. and no.)

(1) For manually operated valves only.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/01/92
(Name)
Waterford, Connecticut Sheet 1 of 3
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California 72-92-01769 SGRP20/32
(Address) 72-92-00593 SGRP20
72-92-07314 SGRP20

4. Identification of System Steam Generator #2 - Main Steam

5. (a) Applicable Construction Code ASME III 1971 Edition, No Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19P, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Piping | Bechtel | 2103 | | | | 1975 | Partial Replaced | Yes (NA) |
| | Dravo | | | | EBB 3-8 | 1974 | Partial Replaced | No |
| | Connex | 42171 | | | | 1982 | Replacement | Yes |
| | Fluor | | | | | 1992 | Replacement | No |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ - SEE ATTACHMENT
Pressure 1250°F psi Test Temp. 140 °F
9. Remarks NPP-1 for 42171
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] [Signature] [Signature] January 26, 1993
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by NRRI of Waterford, CT have inspected the Replacement described in this Report
(Repair(s) or Replacement(s))

on Dec 8-9, 1993 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 19 FEB 93 [Signature] [Signature] CTN37
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/01/92
(Name)
Waterford, Connecticut Sheet 2 of 3
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System Steam Generator #2 - Main Steam

6. Original field installation NA stamped by Bechtel per ASME Section III, 1971 Edition. Dravo shop spool pieces provided with ANSI B31.7, Class II Form NPP-1.

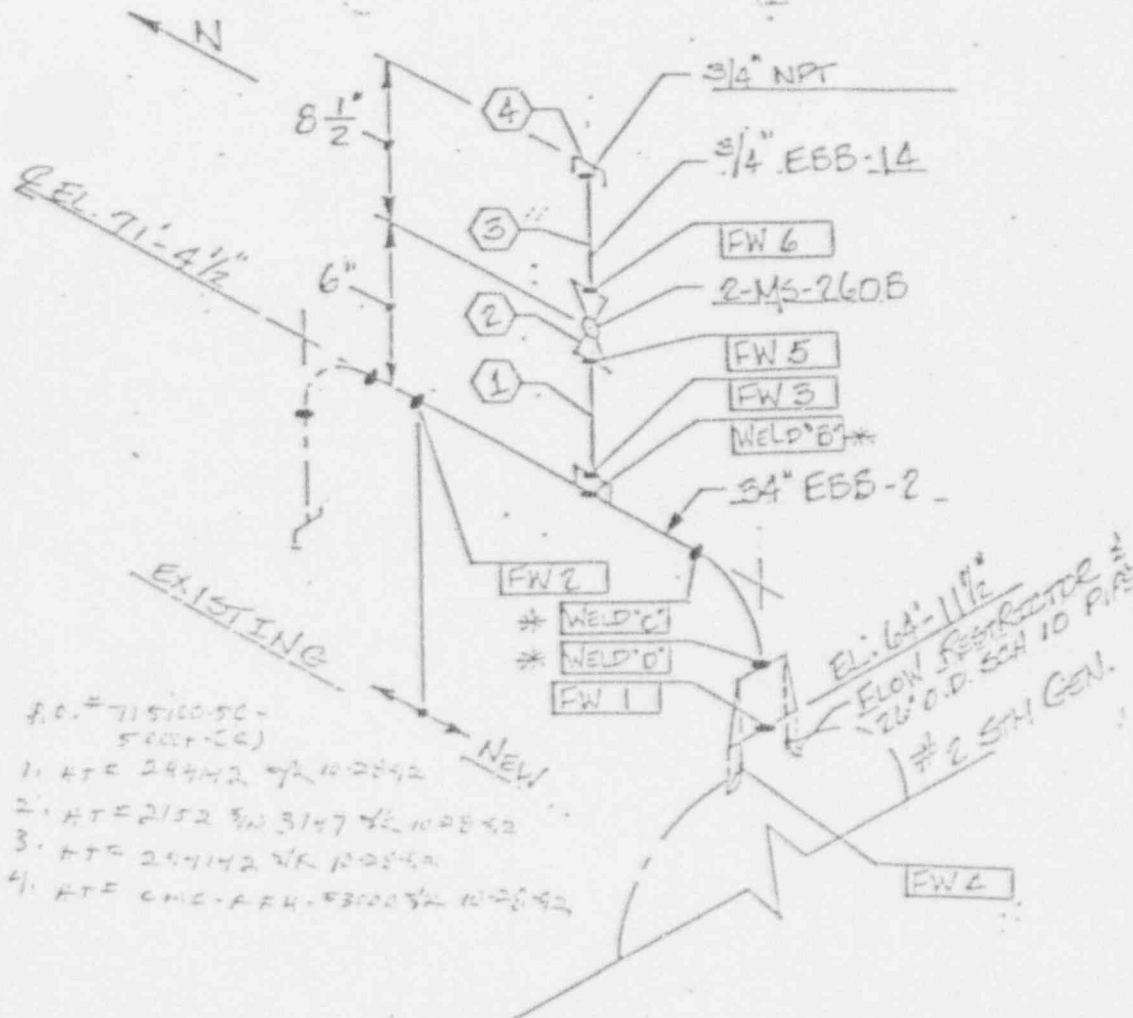
7. Description of Work: Steam generator replacement necessitated the removal and replacement of main steam piping from steam generator safe end to approximately second elbow from generator (see attached sketches). The original spool pieces were shop fabricated to ANSI B31.7 by Dravo. The original field installation was performed by Bechtel and stamped to ASME Section III, 1971 Edition.

An NPT stamped spool piece replacement shop fabricated by Connex was field installed by Fluor. The shop fabricated spool piece was stamped in accordance with ASME Section III, 1983 Edition including Summer, 1984 Addenda. The field installation of the replaced piping was in accordance with ASME Section III, 1971 Edition.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

| | | |
|-----------------------------|---|--|
| 1. Owner | <u>Northeast Nuclear Energy Company</u> (Name) <u>Waterford, Connecticut</u> (Address) | Date <u>12/01/92</u> Sheet <u>3</u> of <u>3</u> |
| 2. Plant | <u>Millstone</u> (Name) <u>Waterford, Connecticut</u> (Address) | Unit <u>Two</u> |
| 3. Work Performed by | <u>Fluor Constructors</u> (Name) <u>Irvine, California</u> (Address) | <u>Fluor Constructors</u> Repair Organization P.O. No., Job No., etc. |
| 4. Identification of System | <u>Steam Generator #2 - Main Steam</u> | |

FIGURE



*WELDS "E", "C" & "D" DONE BY CONVEY SEE SKETCH # E-4211-1

FORM NPP-1 CERTIFICATE HOLDERS' DATA REPORT FOR FABRICATED
NUCLEAR PIPING SUBASSEMBLIES*

As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Fabricated and certified by Connex Pipe Systems, Inc., 1115 Gilman Street, Marietta, Ohio 45750
(Name and address of NPT Certificate Holder)
2. Fabricated for Fluor Constructors International, Inc. **
(Name and address)
3. Location of installation Millstone Unit 2 SGRP **
(Name and address of Purchaser)
4. Type 42171 N/A E4217-1 Rev. 2 N/A 1992
(Cert. Holder's serial no.) (ICRN) (Drawing no.) (Nat'l. Bd. no.) (Year built)
5. ASME Code, Section III, Division 1: 1983 Summer 1984 2 N/A
(Edition) (Addenda date) (Class) (Code Case no.)
6. Shop hydrostatic test N/A psi at N/A *F (if performed)
7. Description of piping Main Steam See page 2 of 2
8. Certificate Holders' Data Reports properly identified and signed by commissioned inspectors have been furnished for the following items of this report: Piece Mark Number: 715100-50-5006K0 #2.11
9. Remarks: N/A

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that the fabrication of the described piping subassembly conforms to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1320 Expires March 1, 1994

Date 4-17-92 Name Connex Pipe Systems, Inc. Signed Mark A. HLB
(NPT Certificate Holder) (Authorized Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by Allendale Mutual Insurance Company, Factory Mutual System of Norwood, MA have inspected the piping subassembly described in this Data Report on 4-17-92 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the piping subassembly 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 4-17-92 Signed RE Burrell Commissions OH-10
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

(12/88)

This form (ED0062) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

** Rope Ferry Road, Route 156, Waterford, CT 06385

Certificate Holder's Serial No. _____

10. Description of field fabrication _____

11. Pneu., hydro., or comb. test pressure _____ psi at temp. _____ °F (if performed)

CERTIFICATE OF FIELD FABRICATION COMPLIANCE

We certify that the statements on this report are correct and that the field fabrication of the described piping subassembly conforms with the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. _____ Expires _____

Date _____ Name _____ (Certificate Holder) Signed _____ (Authorized representative)

CERTIFICATE OF FIELD FABRICATION INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ and employed by _____

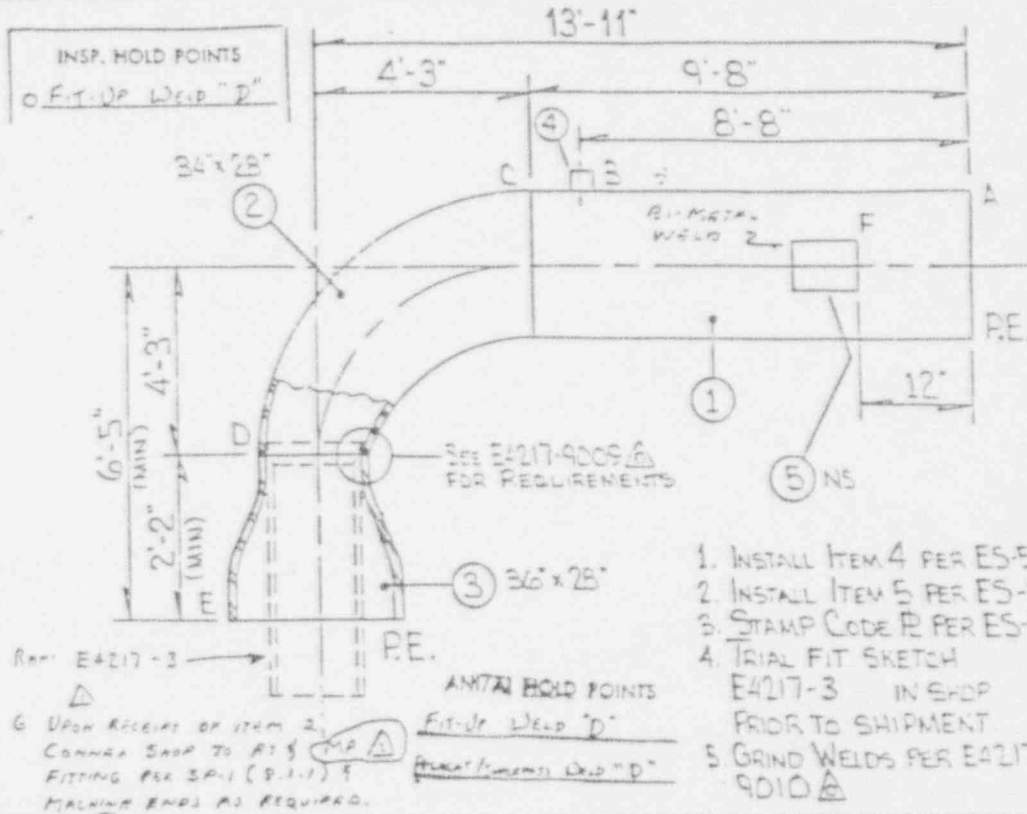
of _____ have compared the statements in this Data Report with the described piping subassembly and state that parts referred to as data items _____, not included in the Certificate of Shop Inspection, have been inspected by me on _____ and that to the best of my knowledge and belief the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the piping subassembly 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 _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l. Bd. Incl. endorsements and s. for prov. and no.)

NPP-1 SHEET 2 OF 2

CONNEX PIPE SYSTEMS, INC. A MEMBER OF THE WOODWARD GROUP
 CUSTOMER ENOR/MILLSTONE DWG REF M-SKA SKETCH NUMBER E-4217-1 2
 SYSTEM 1111 MAIN STEAM SHOP CODE BT
 ISO NO. _____ TOTAL WT. 6700 SPEC CLASS NU 50-500G/R
 AREA _____ PC MK NO. 715100-50-500GKG # 2.11
 ASME SECT. III CL. 2 SERIAL NUMBER 42171 DESIGN COND P. 1000 PSIG
 T. 620 °F

[illegible]



PIPE SYSTEMS

Connex Pipe Systems, Inc.
1115 Gilmer Street
Marietta
Ohio 45750
Telephone 614 373 7541
Fax 614 373 8180
Tlx 810 486 2505

SUMMARY PAGE - CMTR'S SKETCH E4217-1

| <u>ITEM #</u> | <u>HEAT #</u> | <u>SERIAL #</u> | <u>MTR SERIAL #</u> | <u>DESCRIPTION</u> |
|---------------|---------------|-----------------|-------------------------|---------------------------------------|
| 1 | P18502 | 1 | 7 | 34" (.977" MW) SMLS PIPE SA106C |
| 2 | L4065 | 1 | 6 | 34" X 28" (.977" MW) R/ELL SA234 WPC |
| 3 | SOC | 1 | 3 | 36" X 28" (1.007" MW) C/RED SA234 WPC |
| 4 | 337TNR | - | 8 | 3/4" ON 34" 3000# S-O-L SA105 |
| 5 | AUE | - | 5 | CODE PLATE SA240 TP304 |

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/01/92
(Name)
Waterford, Connecticut Sheet 1 of 3
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California AWO 72-92-01768/SGRP 19131
(Address) 72-92-00592/SGRP 19
72-92-07314/SGRP 19202
4. Identification of System Steam Generator #1 - Main Steam
5. (a) Applicable Construction Code ASME III 1971 Edition, No Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Piping | Bechtel | 2103 | | | | 1975 | | Yes (NA) |
| | Dravo | | | | EBB-2-1 EBB-2-2 | 1974 | | No |
| | Connex | 42172 | | | | 1992 | Replacement | Yes |
| | Fluor | | | | | 1992 | Replacement | No |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure Other - SEE ATTACHMENT
Pressure 1250°F psi Test Temp. 140 °F
9. Remarks NPP-1 for 42172
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed William Louis Emerson January 26, 19 93
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF COMPLIANCE

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, employed by HERIOT of Waterford CT have inspected the Replacement described in this Report (Repair(s) or Replacement(s))

on Dec 8-9, 19 92 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 19 FEB 93 Yorkville Commissions 071137
11 FEB 93 PAW NY502
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/01/92
(Name)
Waterford, Connecticut Sheet 2 of 3
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors
(Name)
Irvine, California Fluor Constructors
(Address) Repair Organization P.O. No., Job No., etc.
M12-92-0176B /SGRP 19431
M12-92-00592 /SGRP 19
M12-92-073141

4. Identification of System Steam Generator #1 - Main Steam

6. Original field installation NA stamped by Bechtel per ASME Section III, 1971 Edition. Dravo shop spool pieces provided with ANSI B31.7, Class II Form NPP-1.

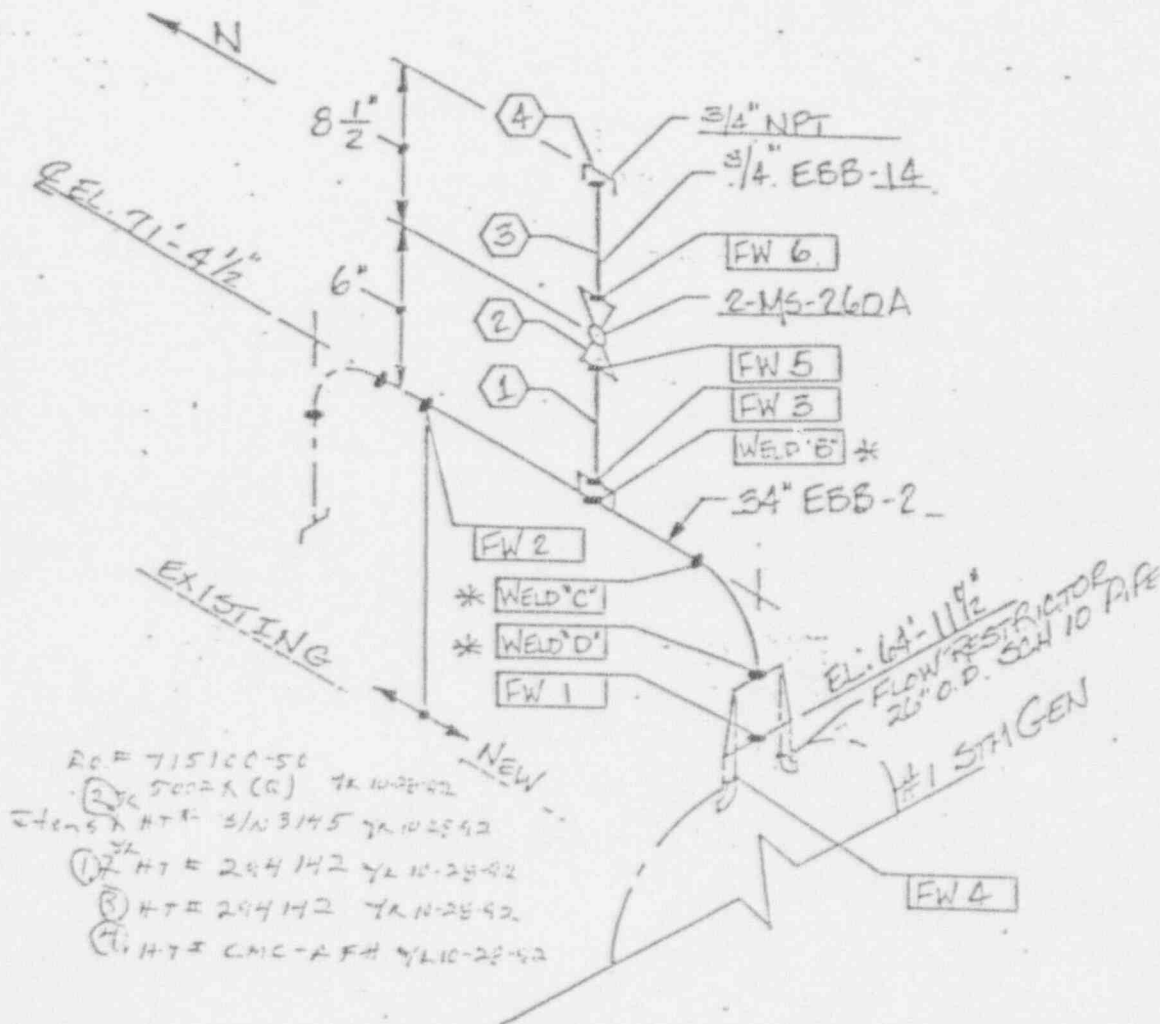
7. Description of Work: Steam generator replacement necessitated the removal and replacement of main steam piping from steam generator safe end to approximately second elbow from generator (see attached sketches). The original spool pieces were shop fabricated to ANSI B31.7 by Dravo. The original field installation was performed by Bechtel and stamped to ASME Section III, 1971 Edition.

An NPT stamped spool piece replacement shop fabricated by Connex was field installed by Fluor. The shop fabricated spool piece was stamped in accordance with ASME Section III, 1983 Edition including Summer, 1984 Addenda. The field installation of the replaced piping was in accordance with ASME Section III, 1971 Edition.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

| | | |
|-----------------------------|---|---|
| 1. Owner | <u>Northeast Nuclear Energy Company</u> (Name) <u>Waterford, Connecticut</u> (Address) | Date <u>12/01/92</u> Sheet <u>3</u> of <u>3</u> |
| 2. Plant | <u>Millstone</u> (Name) <u>Waterford, Connecticut</u> (Address) | Unit <u>Two</u> |
| 3. Work Performed by | <u>Fluor Constructors</u> (Name) <u>Irvine, California</u> (Address) | <u>Fluor Constructors</u> Repair Organization P.O. No., Job No., etc. <u>112-92-01768</u> <u>112-92-00592</u> <u>112-92-07314</u> |
| 4. Identification of System | <u>Steam Generator #1 - Main Steam</u> | |

FIGURE



* WELDS "B", "C", "D" DONE BY CONNEX SEE SKETCH # E-4217-2

**FORM NPP-1 CERTIFICATE HOLDERS' DATA REPORT FOR FABRICATED
NUCLEAR PIPING SUBASSEMBLIES***

As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Fabricated and certified by Connex Pipe Systems, Inc., 1115 Gilman Street, Marietta, Ohio 45750
(Name and address of NPT Certificate Holder)
2. Fabricated for Fluor Constructors International, Inc. **
(Name and address)
3. Location of installation Millstone Unit 2 SGRP **
(Name and address of Purchaser)
4. Type 42172 N/A E4217-2 Rev. 2 N/A 1992
(Cert. Holder's serial no.) (ICRN) (Drawing no.) (Nat'l. Bd. no.) (Year built)
5. ASME Code, Section III, Division 1: 1983 Summer 1984 2 N/A
(Edition) (Addenda date) (Class) (Code Case no.)
6. Shop hydrostatic test N/A psi at N/A *F (if performed)
7. Description of piping Main Steam See page 2 of 2
8. Certificate Holders' Data Reports properly identified and signed by commissioned inspectors have been furnished for the following items of this report: Piece Mark Number: 715100-50-5006KQ #2.11
9. Remarks: N/A

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that the fabrication of the described piping subassembly conforms to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1320 Expires March 1, 1994

Date 4-17-92 Name Connex Pipe Systems, Inc. Signed Mark A. Zuck
(NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by Allendale Mutual Insurance Company, Factory Mutual System of Norwood, MA have inspected the piping subassembly described in this Data Report on 4-17-92, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the piping subassembly 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 4-17-92 Signed RE Lowell Commissions OH-12
(Authorized Inspector) (Nat'l. Bd. Incl. endorsements and state or province no.)

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

(12/88)

This form (E00062) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

** Rope Ferry Road, Route 156, Waterford, CT 06385

Certificate Holder's Serial No. _____

10. Description of field fabrication _____

11. Pneu., hydro., or comb. test pressure _____ psi at temp. _____ °F (if performed)

CERTIFICATE OF FIELD FABRICATION COMPLIANCE

We certify that the statements on this report are correct and that the field fabrication of the described piping subassembly conforms with the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. _____ Expires _____

Date _____ Name _____ (Certificate Holder) Signed _____ (Authorized representative)

CERTIFICATE OF FIELD FABRICATION INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ and employed by _____

of _____ have compared the statements in this Data Report with the described piping subassembly and state that parts referred to as data items _____, not included in the Certificate of Shop Inspection, have been inspected by me on _____ and that to the best of my knowledge and belief the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the piping subassembly 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 _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l. Bd. incl. endorsements and state or prov. and no.)

NPP-1-SHEET 2 OF 2

CHECK **CONNECT** **Customer Pipe Specifications, Inc.** A member of the Williams Group

CUSTOMER FIND / MILLSTONE DWG. REF. M-582

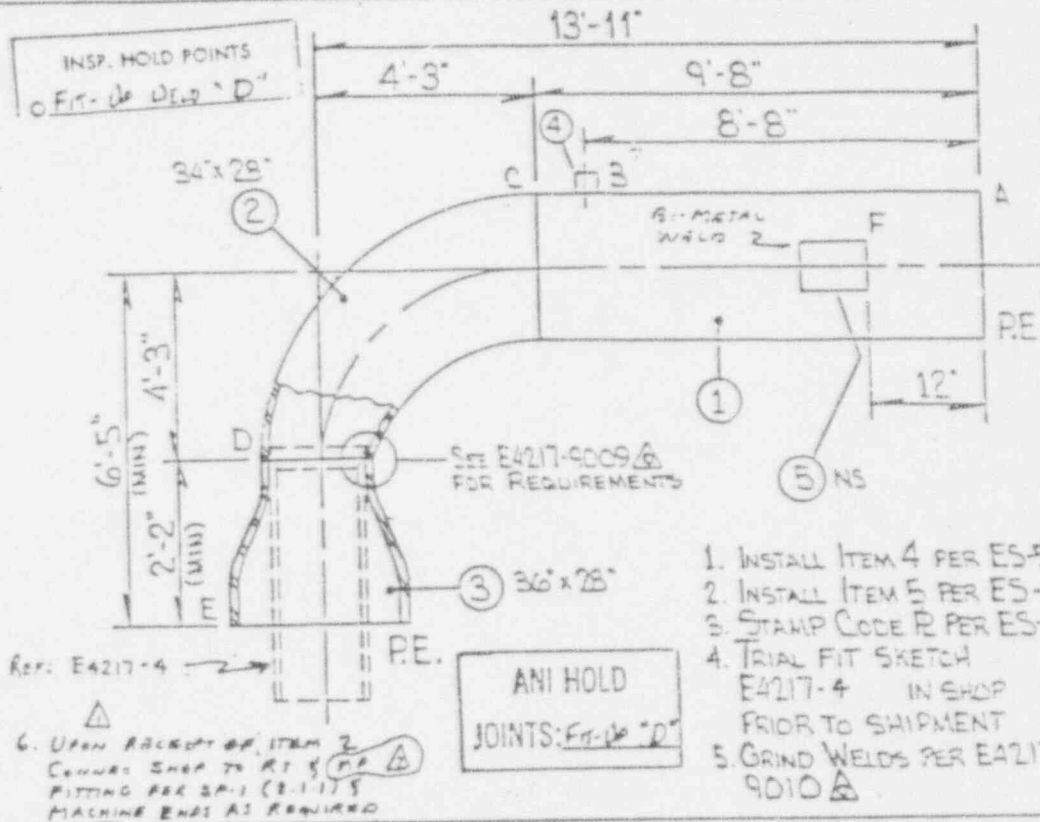
SPEC. CLASS NW 50-5006/2

ISO NO. _____ TOTAL WT. 6700 SHOP CODE 87

AREA _____ PC WK NO. 715100-50-5006KQ # 2.11

ASME SECT. III CL. 2 SERIAL NUMBER 42172 DESIGN COND. P. 1000 PSIG
T. 600 °F

SKETCH NUMBER E-4217-2

[illegible]



Connex Pipe Systems, Inc.
1115 Gorman Street
Marietta
Ohio 45750
Telephone 614.373.7541
Fax 614.373.5480
Tlx 810.486.2808

SUMMARY PAGE - CMTR'S SKETCH E4217-2

| <u>ITEM #</u> | <u>HEAT #</u> | <u>SERIAL #</u> | <u>MTR SERIAL #</u> | <u>DESCRIPTION</u> |
|---------------|---------------|-----------------|-------------------------|---------------------------------------|
| 1 | P18502 | 2 | 7 | 34" (.977" MW) SMLS PIPE SA106C |
| 2 | L4065 | 2 | 6 | 34" X 28" (.977" MW) R/ELL SA234 WPC |
| 3 | SOC | 2 | 3 | 36" X 28" (1.007" MW) C/RED SA234 WPC |
| 4 | 337TNR | - | 8 | 3/4" ON 34" 3000# S-O-L SA105 |
| 5 | AUE | - | 5 | CODE PLATE SA240 TP304 |

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/03/92
(Name)
Waterford, Connecticut Sheet 1 of 3
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California AWO 12-92-00637
(Address) 12-92-01771
4. Identification of System Steam Generator No. 2 - Feedwater
5. (a) Applicable Construction Code ASME 1971 Edition, No Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Feedwater | Bechtel | 2103 | | | | 1975 | Replaced | Yes |
| Piping | Dravo | | | | EBB-6-12 | 1974 | Replaced | No |
| | NU | N/A | N/A | N/A | | 1979 | Replaced | No |
| | Fluor | N/A | N/A | N/A | | 1992 | Replacement | No |
| | Connex | 42176 | | | E4217-6 | 1992 | Replacement | Yes |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure Other - SEE ATTACHMENT
Pressure 1250 psi Test Temp. 140°F
9. Remarks NPP-1
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Alan M. Levin, Senior Engineer January 26, 19 93
(Owner or Owner's Designee) Title (Date)

| | | |
|---|--|--|
| CERTIFICATE OF COMPLIANCE | | SGRP 1611B |
| 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>Connecticut</u> , employed by <u>HSB-IC</u> of <u>Waterford, CT</u> have inspected the <u>Replacement</u> described in this Report (Repair(s) or Replacement(s)) | | |
| on <u>Dec 8th</u> , 19 <u>93</u> and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. | | |
| Date <u>19 FEB 1993</u> | <u>E. J. ORK ANZI</u> (Inspector) ANI | <u>CT1139</u> (State or Province, National Board) |
| Commissions <u>DISCZ</u> | | |

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2 in. x 11 in.; (2) information in Items 1 through 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/03/92
(Name)
Waterford, Connecticut Sheet 2 of 3
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California M2-92-00637
(Address) M2-92-01771

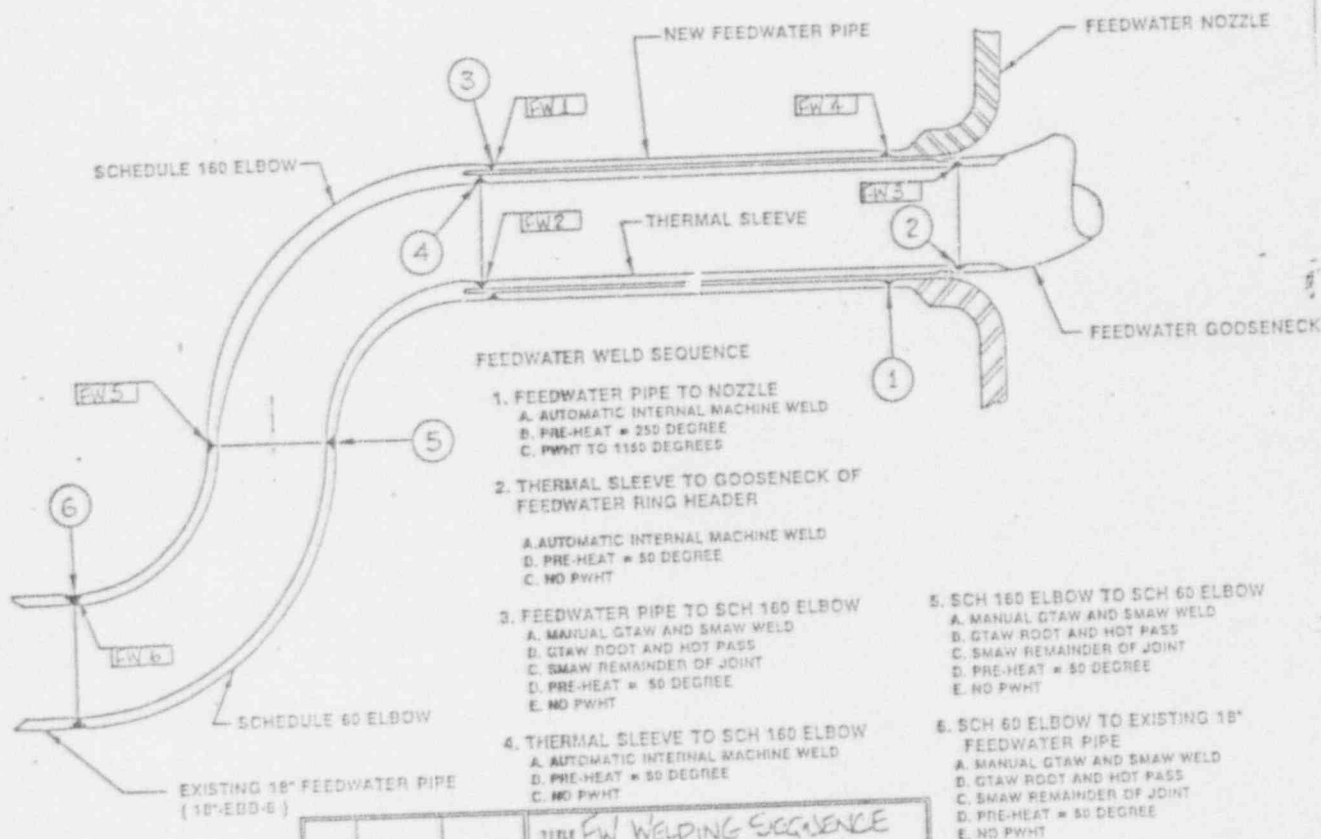
4. Identification of System Steam Generator No. 2 - Feedwater

- 5(a) Original field installation was performed in accordance with ASME Section III, 1971 Edition. Original shop fabricated spool pieces were fabricated in accordance with ANSI B31.7-1967. A portion of the feedwater piping being replaced was a replacement performed by NU in 1979 under ASME Section XI.
6. Bechtel field installation was stamped in accordance with ASME Section III, 1971. Dravo spool pieces were fabricated in accordance with ANSI B31.7 and provided with NPP-1 form. Replacement spool pieces for this replacement were procured in accordance with ASME Section III, 1983 Edition including Summer, 1984 Addenda. Field installation was in accordance with ASME Section III, 1971 Edition.
7. Feedwater piping was replaced from steam generator nozzle out to and including second elbow outside of steam generator blockhouse (see attached sketch).

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

| | | |
|-----------------------------|---|--|
| 1. Owner | <u>Northeast Nuclear Energy Company</u> (Name) <u>Waterford, Connecticut</u> (Address) | Date <u>12/03/92</u> Sheet <u>3</u> of <u>3</u> |
| 2. Plant | <u>Millstone</u> (Name) <u>Waterford, Connecticut</u> (Address) | Unit <u>Two</u> |
| 3. Work Performed by | <u>Fluor Constructors</u> (Name) <u>Irvine, California</u> (Address) | <u>Fluor Constructors</u> Repair Organization P.O. No., Job No., etc. <u>M2-92-00637</u> <u>M2-92-01771</u> |
| 4. Identification of System | <u>Steam Generator No. 2 - Feedwater</u> | |

FIGURE



| | | | |
|--|------|-----------------|--|
| TITLE <u>FW WELDING SEQUENCE AND JOINT IDENT MAP</u> | | | |
| SHEET NO. <u>EXP-354</u> | | SCALE <u>NA</u> | |
| REFERENCE DOC. <u>NA</u> | | | |
| REV | DATE | CHG BY | APPROV NO. <u>M2-92-00637</u> ENCLOSURE NO. <u>4.2</u> |

**FORM NPP-1 CERTIFICATE HOLDERS' DATA REPORT FOR FABRICATED
NUCLEAR PIPING SUBASSEMBLIES***

As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

Fabricated and certified by Connex Pipe Systems, Inc., 1115 Gilman Street, Marietta, Ohio 45750
(Name and address of NPT Certificate Holder)

2. Fabricated for Fluor Constructors International Inc. **
(Name and address)

3. Location of installation Millstone Unit 2 SGRP - **
(Name and address of Purchaser)

4. Type 42176 N/A E4217-6 Rev. 3 N/A 1992
(Cert. Holder's serial no.) (CRN) (Drawing no.) (Nat'l. Bd. no.) (Year built)

5. ASME Code, Section III, Division 1: 1983 Summer 1984 2 N/A
(Edition) (Addenda date) (Class) (Code Case no.)

6. Shop hydrostatic test N/A psi at N/A °F (if performed)

7. Description of piping Feedwater See page 2 of 2

8. Certificate Holders' Data Reports properly identified and signed by commissioned inspectors have been furnished for the following items of this report: Piece Mark Number: 715100-50-5006K0 #2.10

9. Remarks: N/A

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that the fabrication of the described piping subassembly conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1320 Expires March 1, 1994
Date 4-17-92 Name Connex Pipe Systems, Inc. Signed Mark A. Zick
(NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by Allendale Mutual Insurance Company, Factory Mutual System of Norwood, MA have inspected the piping subassembly described in this Data Report on 4-17-92 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the piping subassembly 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 4-17-92 Signed Richard Commissions OHIO
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

(12/88)

This form (E00062) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

** Rope Ferry Road, Route 156, Waterford, CT 06385

Certificate Holder's Serial No. _____

10. Description of field fabrication _____

11. Pneu., hydro., or comb. test pressure _____ psi at temp. _____ °F (if performed)

CERTIFICATE OF FIELD FABRICATION COMPLIANCE

We certify that the statements on this report are correct and that the field fabrication of the described piping subassembly conforms with the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. _____ Expires _____

Date _____ Name _____ (Certificate Holder) Signed _____ (Authorized representative)

CERTIFICATE OF FIELD FABRICATION INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ and employed by _____

_____ of _____ have compared the statements in this Data Report with the described piping subassembly and state that parts referred to as data items _____, not included in the Certificate of Shop Inspection

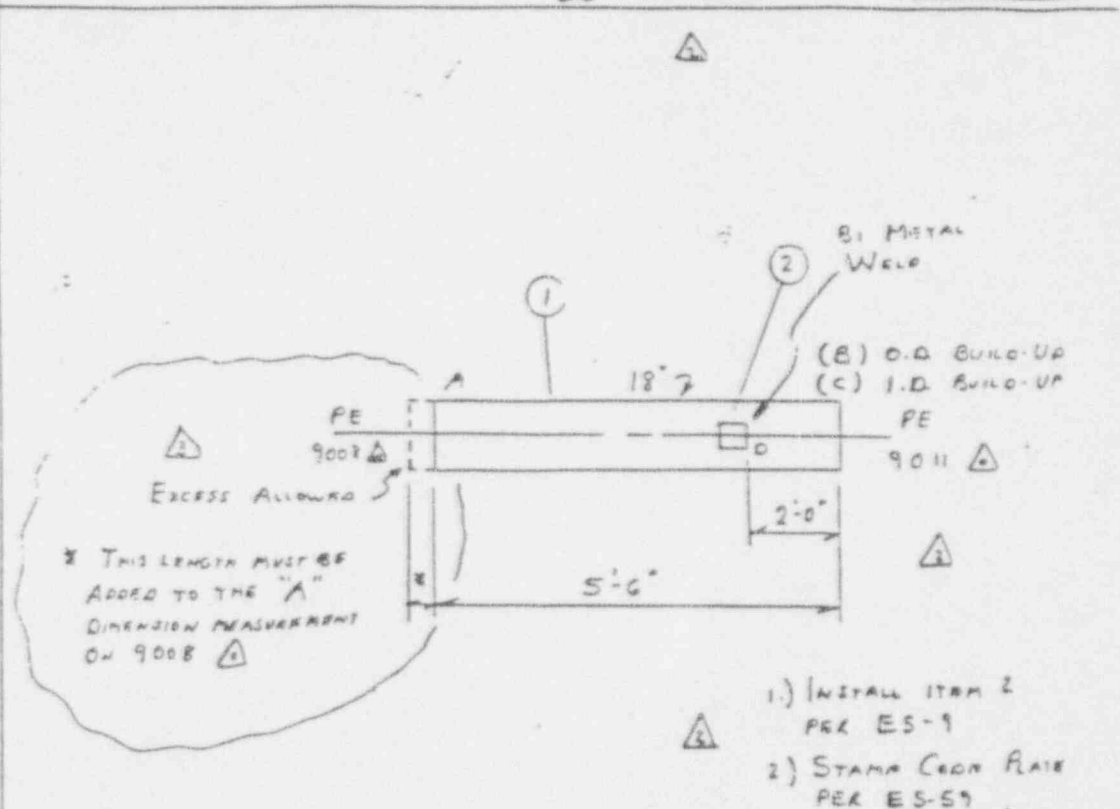
_____ have been inspected by me on _____ and that to the best of my knowledge and belief the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the piping subassembly 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 _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l. Bd. (incl. endorsements) and state or prov. and no. 1)

NPP-1 SHEET 2 OF 2

| | | | |
|--|---|----------------------------------|------------------|
| COMPANY General Pipe Systems, Inc. a member of the Wabash Group | | SKETCH NUMBER | |
| CUSTOMER FLUOR / MILLSTONE | DWG. REF. | E-4217- 6 | |
| SYSTEM 111 FARMWATER | SHOP CODE 174 | | |
| ISO NO. | TOTAL WT. 760 | SPEC CLASS NU 50-500G / 2 | |
| AREA | PC MK NO. 715100-50-500G KQ # 2.10 | | |
| ASME SECT. III CL 2 | SERIAL NUMBER 42176 | DESIGN COND. P. 1100 | PSK T 622 |



| | | | | | | | |
|---|--|---|--|---|--|--|--|
| FAB. PROC. NO. SP-1 | | <input type="checkbox"/> BACKING RINGS/INSERTS | | <input checked="" type="checkbox"/> BEND BLAST I.D. | | <input type="checkbox"/> BEND PRIME TYPE CODE/ACQUER | |
| SHOP REV. 1 TYPE 1 | | <input type="checkbox"/> PAINT | | <input checked="" type="checkbox"/> BEND BLAST I.D. | | <input type="checkbox"/> BEND PRIME TYPE | |
| FIELD REV. A TYPE 1 | | <input type="checkbox"/> SPECIAL CLEAN LEV | | <input type="checkbox"/> BEND INSP. PREP | | <input type="checkbox"/> BEND HOT/COLD | |
| N.C.E. | | PROCEDURE | | REQUIRED WELDS | | WELD FILLER METAL PHOTO | |
| <input checked="" type="checkbox"/> ASME III-PA | | <input checked="" type="checkbox"/> ASME III-PA | | <input checked="" type="checkbox"/> B1C | | <input checked="" type="checkbox"/> B1C | |
| <input checked="" type="checkbox"/> ASME III-PA | | <input checked="" type="checkbox"/> ASME III-PA | | <input checked="" type="checkbox"/> B1C | | <input checked="" type="checkbox"/> B1C | |
| <input checked="" type="checkbox"/> CUT | | <input checked="" type="checkbox"/> CUT | | <input checked="" type="checkbox"/> CUT | | <input checked="" type="checkbox"/> CUT | |
| VISUAL | | ES-VB-1 | | FINAL SQUARE B.C.O | | C YELLOW ACTUAL | |
| QUANTITY | | DESCRIPTION | | SPEC | | BAY PHOTO CODE/ST | |
| 1 | | 18" SCH 60 SMIT PIPE | | SA 106A | | 7/11/121187 | |
| 1 | | CORN PLATE PER ES-1 2'x2'x1/2" | | SA 286 TP 304/316 | | - | |
| 2 | | 18" MRP | | - | | - | |
| 3 | | 18" MRP | | - | | - | |
| 4 | | 18" MRP | | - | | - | |
| 5 | | 18" MRP | | - | | - | |
| 6 | | 18" MRP | | - | | - | |
| 7 | | 18" MRP | | - | | - | |
| 8 | | 18" MRP | | - | | - | |
| 9 | | 18" MRP | | - | | - | |
| 10 | | 18" MRP | | - | | - | |
| 11 | | 18" MRP | | - | | - | |
| 12 | | 18" MRP | | - | | - | |
| 13 | | 18" MRP | | - | | - | |
| 14 | | 18" MRP | | - | | - | |
| 15 | | 18" MRP | | - | | - | |
| 16 | | 18" MRP | | - | | - | |
| 17 | | 18" MRP | | - | | - | |
| 18 | | 18" MRP | | - | | - | |
| 19 | | 18" MRP | | - | | - | |
| 20 | | 18" MRP | | - | | - | |
| 21 | | 18" MRP | | - | | - | |
| 22 | | 18" MRP | | - | | - | |
| 23 | | 18" MRP | | - | | - | |
| 24 | | 18" MRP | | - | | - | |
| 25 | | 18" MRP | | - | | - | |
| 26 | | 18" MRP | | - | | - | |
| 27 | | 18" MRP | | - | | - | |
| 28 | | 18" MRP | | - | | - | |
| 29 | | 18" MRP | | - | | - | |
| 30 | | 18" MRP | | - | | - | |
| 31 | | 18" MRP | | - | | - | |
| 32 | | 18" MRP | | - | | - | |
| 33 | | 18" MRP | | - | | - | |
| 34 | | 18" MRP | | - | | - | |
| 35 | | 18" MRP | | - | | - | |
| 36 | | 18" MRP | | - | | - | |
| 37 | | 18" MRP | | - | | - | |
| 38 | | 18" MRP | | - | | - | |
| 39 | | 18" MRP | | - | | - | |
| 40 | | 18" MRP | | - | | - | |
| 41 | | 18" MRP | | - | | - | |
| 42 | | 18" MRP | | - | | - | |
| 43 | | 18" MRP | | - | | - | |
| 44 | | 18" MRP | | - | | - | |
| 45 | | 18" MRP | | - | | - | |
| 46 | | 18" MRP | | - | | - | |
| 47 | | 18" MRP | | - | | - | |
| 48 | | 18" MRP | | - | | - | |
| 49 | | 18" MRP | | - | | - | |
| 50 | | 18" MRP | | - | | - | |
| 51 | | 18" MRP | | - | | - | |
| 52 | | 18" MRP | | - | | - | |
| 53 | | 18" MRP | | - | | - | |
| 54 | | 18" MRP | | - | | - | |
| 55 | | 18" MRP | | - | | - | |
| 56 | | 18" MRP | | - | | - | |
| 57 | | 18" MRP | | - | | - | |
| 58 | | 18" MRP | | - | | - | |
| 59 | | 18" MRP | | - | | - | |
| 60 | | 18" MRP | | - | | - | |
| 61 | | 18" MRP | | - | | - | |
| 62 | | 18" MRP | | - | | - | |
| 63 | | 18" MRP | | - | | - | |
| 64 | | 18" MRP | | - | | - | |
| 65 | | 18" MRP | | - | | - | |
| 66 | | 18" MRP | | - | | - | |
| 67 | | 18" MRP | | - | | - | |
| 68 | | 18" MRP | | - | | - | |
| 69 | | 18" MRP | | - | | - | |
| 70 | | 18" MRP | | - | | - | |
| 71 | | 18" MRP | | - | | - | |
| 72 | | 18" MRP | | - | | - | |
| 73 | | 18" MRP | | - | | - | |
| 74 | | 18" MRP | | - | | - | |
| 75 | | 18" MRP | | - | | - | |
| 76 | | 18" MRP | | - | | - | |
| 77 | | 18" MRP | | - | | - | |
| 78 | | 18" MRP | | - | | - | |
| 79 | | 18" MRP | | - | | - | |
| 80 | | 18" MRP | | - | | - | |
| 81 | | 18" MRP | | - | | - | |
| 82 | | 18" MRP | | - | | - | |
| 83 | | 18" MRP | | - | | - | |
| 84 | | 18" MRP | | - | | - | |
| 85 | | 18" MRP | | - | | - | |
| 86 | | 18" MRP | | - | | - | |
| 87 | | 18" MRP | | - | | - | |
| 88 | | 18" MRP | | - | | - | |
| 89 | | 18" MRP | | - | | - | |
| 90 | | 18" MRP | | - | | - | |
| 91 | | 18" MRP | | - | | - | |
| 92 | | 18" MRP | | - | | - | |
| 93 | | 18" MRP | | - | | - | |
| 94 | | 18" MRP | | - | | - | |
| 95 | | 18" MRP | | - | | - | |
| 96 | | 18" MRP | | - | | - | |
| 97 | | 18" MRP | | - | | - | |
| 98 | | 18" MRP | | - | | - | |
| 99 | | 18" MRP | | - | | - | |
| 100 | | 18" MRP | | - | | - | |



CONNEX

PIPE SYSTEMS

Connex Pipe Systems, Inc.
1115 Gilman Street
Marietta
Ohio 45750
Telephone 614.373.7541
Fax 614.373.8460
Twx 810.455.2808

SUMMARY PAGE - QMTR'S SKETCH E4217-6

| <u>ITEM #</u> | <u>BEAT #</u> | <u>SERIAL #</u> | <u>MTR SERIAL #</u> | <u>DESCRIPTION</u> |
|---------------|---------------|-----------------|-------------------------|-----------------------------|
| 1 | L21137 | 1 | 4 | 18" SCH 60 SMLS PIPE SA106B |
| 2 | AUE | - | 5 | CODE PLATE SA240 TP304 |

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/03/92
(Name)
Waterford, Connecticut Sheet 1 of 3
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California ALC M2-92-00636
(Address) M2-92-01770
4. Identification of System Steam Generator No. 1 - Feedwater
5. (a) Applicable Construction Code ASME 1971 Edition, No Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components
- | Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Feedwater | Bechtel | 2103 | | | | 1975 | Replaced | Yes |
| Piping | Dravo | | | | EBB-6-6 | 1974 | Replaced | No |
| | NU | N/A | N/A | N/A | | 1979 | Replaced | No |
| | Fluor | N/A | N/A | N/A | | 1992 | Replacement | No |
| | Connex | 42175 | | | E4217-5 | 1992 | Replacement | Yes |
7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure Other - SEE ATTACHMENT
Pressure 1250 psi Test Temp. 140°F
9. Remarks NPP-1
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Charles L. Lewis January 26, 1992
(Owner or Owner's Designee) Title Date

CERTIFICATE OF COMPLIANCE

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NY/CT, employed by AS32+2 CC of HARTFORD, CT have inspected the REPLACEMENT described in this Report
(Repair(s) or Replacement(s))

on Dec 28, 1992 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Feb 19, 1993 ONE CT1137
2652093 (Inspector) NY 5042 (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 12/03/92
(Name)
Waterford, Connecticut Sheet 2 of 3
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System Steam Generator No. 1 - Feedwater

- 5(a) Original field installation was performed in accordance with ASME Section III, 1971 Edition. Original shop fabricated spool pieces were fabricated in accordance with ANSI B31.7-1967. A portion of the feedwater piping being replaced was a replacement performed by NU in 1979 under ASME Section XI.
6. Bechtel field installation was stamped in accordance with ASME Section III, 1971. Dravo spool pieces were fabricated in accordance with ANSI B31.7 and provided with NPP-1 form. Replacement spool pieces for this replacement were procured in accordance with ASME Section III, 1983 Edition including Summer, 1984 Addenda. Field installation was in accordance with ASME Section III, 1971 Edition.
7. Feedwater piping was replaced from steam generator nozzle out to and including second elbow outside of steam generator blockhouse (see attached sketch).

AWO

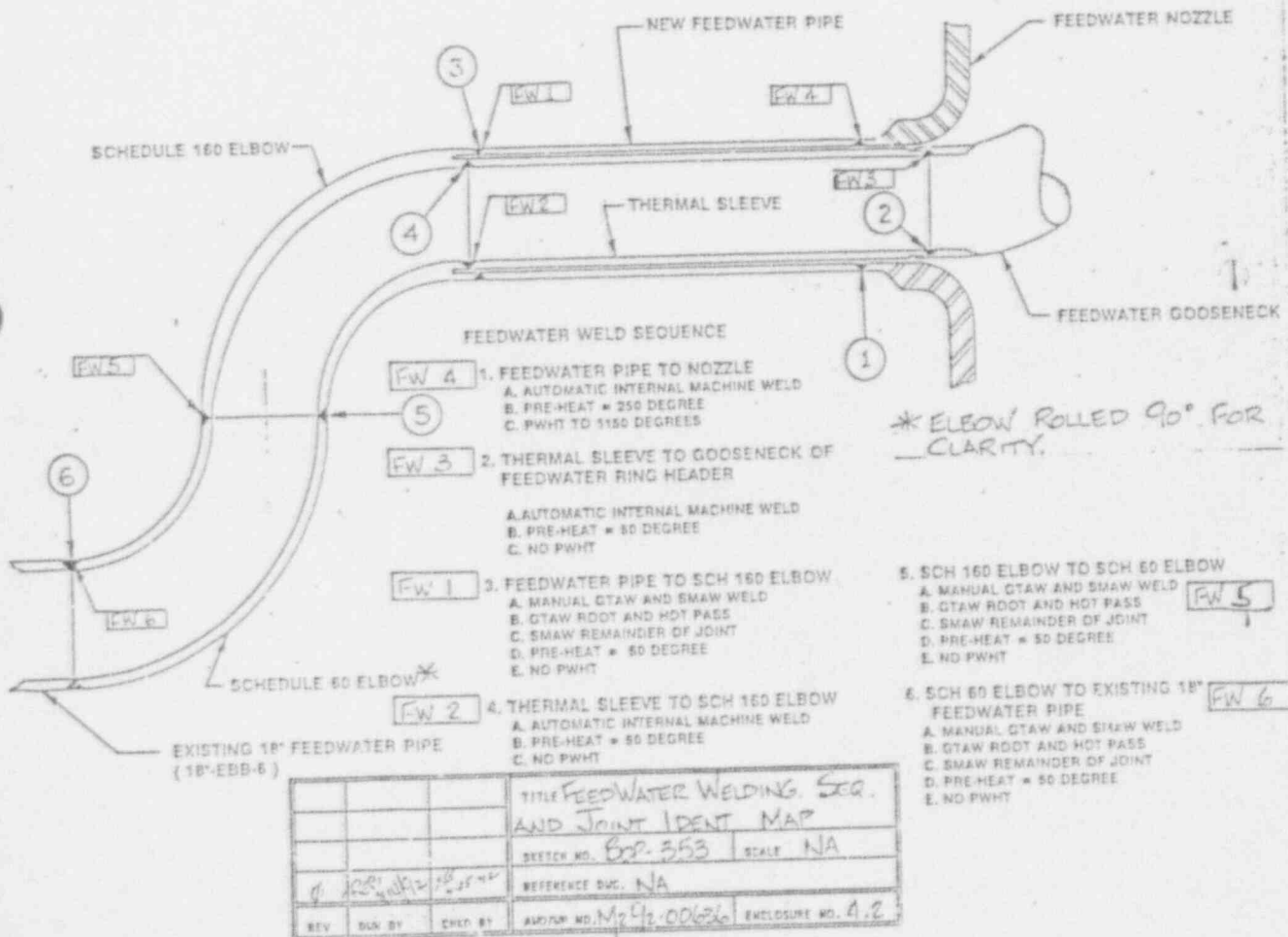
Work performed per M2-92-00636 and M2-92-01770

after 1/24/95

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

| | | |
|-----------------------------|---|----------------------------|
| 1. Owner | <u>Northeast Nuclear Energy Company</u> (Name) <u>Waterford, Connecticut</u> (Address) | Date <u>12/03/92</u> |
| 2. Plant | <u>Millstone</u> (Name) <u>Waterford, Connecticut</u> (Address) | Sheet <u>3</u> of <u>3</u> |
| 3. Work Performed by | <u>Fluor Constructors</u> (Name) <u>Irvine, California</u> (Address) | Unit <u>Two</u> |
| 4. Identification of System | <u>Steam Generator No. 1 - Feedwater</u> | |

FIGURE



**FORM NPP-1 CERTIFICATE HOLDERS' DATA REPORT FOR FABRICATED
NUCLEAR PIPING SUBASSEMBLIES***

As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Fabricated and certified by Connex Pipe Systems, Inc., 1115 Gilman Street, Marietta, Ohio 45750
(Name and address of NPT Certificate Holder)

2. Fabricated for Fluor Constructors International Inc. **
(Name and address)

3. Location of installation Millstone Unit 2 SGRP **
(Name and address of Purchaser)

4. Type 42175 N/A E4217-5 Rev. 3 N/A 1992
(Cert. Holder's serial no.) (CRN) (Drawing no.) (Nat'l. Bd. no.) (Year built)

5. ASME Code, Section III, Division 1: 1983 Summer 1984 2 N/A
(Edition) (Addenda date) (Class) (Code Case no.)

6. Shop hydrostatic test N/A psi at N/A °F (if performed)

7. Description of piping Feedwater See page 2 of 2

8. Certificate Holders' Data Reports properly identified and signed by commissioned inspectors have been furnished for the following items of this report: Piece Mark Number: 715100-50-5006K0 #2.10

9. Remarks: N/A

CERTIFICATE OF SHOP COMPLIANCE

I hereby certify that the statements made in this report are correct and that the fabrication of the described piping subassembly conforms to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1320 Expires March 1, 1994
Date 4-17-92 Name Connex Pipe Systems, Inc. Signed Mark A. Hub
(NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by Allendale Mutual Insurance Company, Factory Mutual System of Norwood, MA have inspected the piping subassembly described in this Data Report on 4-17-92 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the piping subassembly 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 4-17-92 Signed R. E. Howell Commissions OHIO
(Authorized Inspector) (Nat'l. Bd. Incl. endorsements) and state or prov. and no.

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

(12/88)

This form (E00062) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

** Rope Ferry Road, Route 156, Waterford, CT 06385

Certificate Holder's Serial No. _____

10. Description of field fabrication _____

11. Pneu., hydro., or comb. test pressure _____ psi at temp. _____ °F (if performed)

CERTIFICATE OF FIELD FABRICATION COMPLIANCE

We certify that the statements on this report are correct and that the field fabrication of the described piping subassembly conforms with the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. _____ Expires _____

Date _____ Name _____ (Certificate Holder) Signed _____ (Authorized representative)

CERTIFICATE OF FIELD FABRICATION INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ and employed by _____

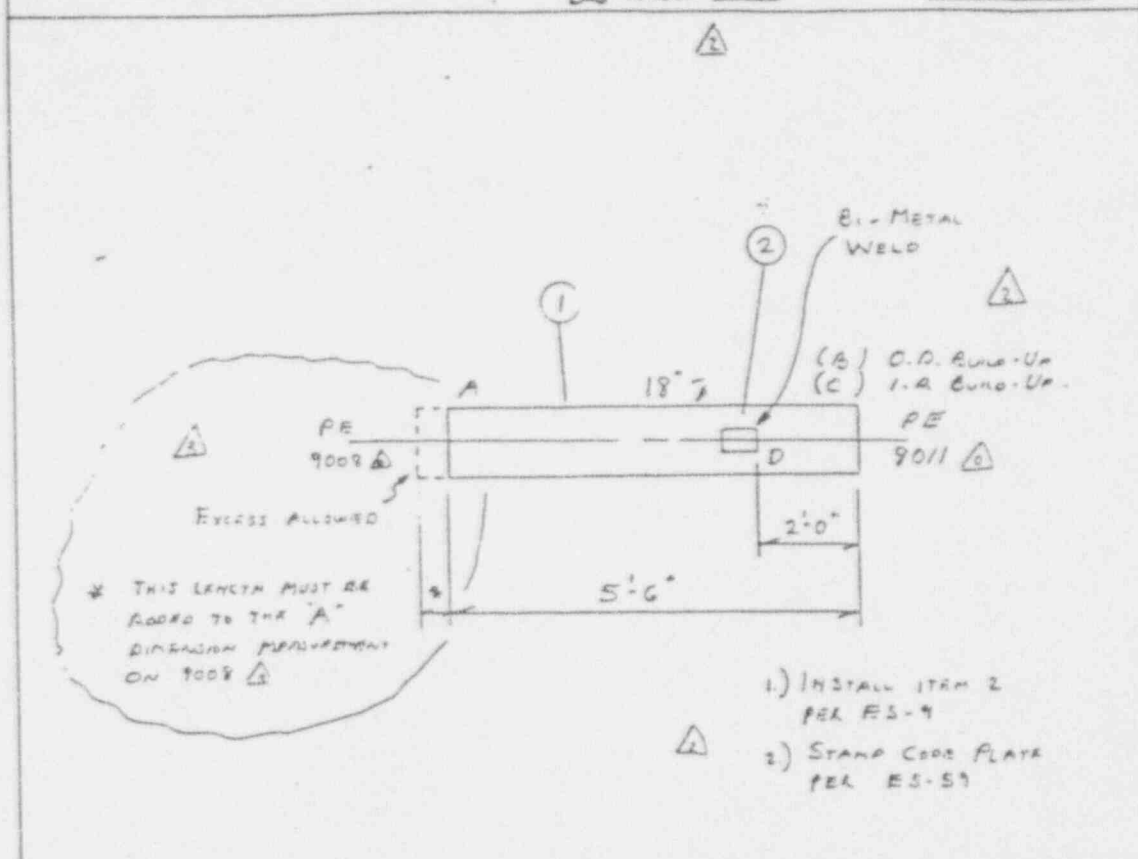
of _____ have compared the statements in this Data Report with the described piping subassembly and state that parts referred to as data items _____ not included in the Certificate of Shop Inspection, have been inspected by me on _____ and that to the best of my knowledge and belief the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the piping subassembly 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 _____ Signed _____ (Authorized Inspector) Commissions [Nat'l B: _____] [endorsement and state or prov. and no.] _____

NPP-1 SHEET 2 OF 2

| | | | | | |
|--------------------|-------------------|--|--------------------------|----------------|--------------|
| CORCON | | Corcon Pipe Systems, Inc. A member of the Wessco Group | | SKETCH NUMBER | |
| CUSTOMER | FLUOR / MILLSTONE | DWG REF. | | E-4217-5 | |
| SYSTEM | 111 FRESHWATER | SHOP CODE | 174 | | |
| ISO NO. | | TOTAL WT. | 760 | SPEC CLASS | NJ-50-5006/R |
| AREA | | PC MK NO. | 715100-50-5006 KQ # 2.10 | | |
| ASME SECT. III CL. | 2 | | | DESIGN COND P. | 1100 PSIG |
| | | SERIAL NUMBER | 42175 | T. | 600 °F |



| | | | | | | | |
|---|--|--------------------------------------|--|--|--|---------------------------------|--|
| FAB PROC NO <u>SP-1</u> <u>△</u> TYPICAL | | C BACKING RINGS/INSERTS | | C SAND BLAST I.D./O.D. | | C STD PRIME TYPE OXIDE/LACQUER | |
| SHOP BEV <u>—</u> <u>△</u> TYPE <u>—</u> | | C PAINT | | C GRIT BLAST I.D. | | C SPC'L PAINT TYPE <u>—</u> SP- | |
| FIELD BEV <u>A1</u> <u>△</u> TYPE <u>—</u> | | C SPECT'L CLEAN LEV <u>—</u> SP- | | C INSV INSP PREP | | C BEND HOT/COLD SP- | |
| N.D.E. | | PROCEDURE | | C SHIPPING PREP | | C VERIFY BEND THICK SP- | |
| REQUIRED WELDS | | C FERRITE MEAS | | C MIN. WALL MEAS | | SP- | |
| S/WELD <u>△</u> ASME III-MPA <u>△</u> B/C IN ACCORDANCE WITH SACS, 18 | | WELD FILLER METAL REQ'D | | C YELLOW ACTUAL <u>△</u> RED ACTUAL WITH | | SPECIAL SEE WELD ENGINEER | |
| S/FRT <u>△</u> ASME III-RT <u>△</u> B/C IN ACCORDANCE WITH SACS, 18 | | C CHARRY <u>0</u> <u>10</u> <u>4</u> | | SPEC | | B/W HINDS CODE SN | |
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Connex Pipe Systems, Inc.
1115 Gilman Street
Marietta
Ohio 45750
Telephone 614.373.7541
Fax 614.373.8480
Twx 810.486.2808

SUMMARY PAGE - CMTR'S SKETCH E4217-5

| <u>ITEM #</u> | <u>HEAT #</u> | <u>SERIAL #</u> | <u>MTR SERIAL #</u> | <u>DESCRIPTION</u> |
|---------------|---------------|-----------------|-------------------------|-----------------------------|
| 1 | L21137 | 1 | 4 | 18" SCH 60 SMLS PIPE SA106B |
| 2 | AUE | - | 5 | CODE PLATE SA240 TP304 |

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California M2-92-03342 M2-92-11818 A12-92-03316
(Address) M2-92-03252 M2-92-10633
4. Identification of System Reactor Coolant Piping - Steam Generator #2, Cold Leg B

5. (a) Applicable Construction Code ASME Section III 1971 Edition, 71 Summer Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|------------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Reactor Coolant Piping | Benhtel | | | | 30-CCA-2 W24 | 1975 | Replaced | Yes (N/A) |
| | CE | | | | 503-03-2 | 1992 | Repaired | Yes (B31.7) |
| | Fluor | | | | 30-CCA-2 | 1981 | Replacement | No |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 2295 psi Test Temp. 532°F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Charles E. Lewis Senior Engineer February 10, 1993
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by WEG-26 of Waterford, CT have inspected the Repair + Replacement described in this Report (Repairs or Replacement(s)) on Jan 8, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 19 FEB 93 ETORR ANZ CTN37
WEG-26 Commissions N7502
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California M2-92-03342 M2-92-11818 M2-92-03316
(Address) *R. J. H.* M2-92-03292 M2-92-10633

4. Identification of System Reactor Coolant Piping - Steam Generator #2, Cold Leg B

7. Description of Work: Steam Generator Replacement necessitated the cutting of reactor coolant piping at the steam generator nozzles. The steam generator nozzle-to-reactor coolant piping weldments were partially replaced. Original Bechtel weld identification was W24 per Drawing 25203-20152, Sheet 143.

Temporary attachments were placed on the piping adjacent to the pipe-to-nozzle weldment. During removal of these attachments, the piping base material was nicked requiring repair.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/07/93
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors
(Name)
Irvine, California Repair Organization P.O. No., Job No., etc.
(Address) M2-92-03342 M2-92-03292
M2-92-00017 M2-92-1181E

4. Identification of System Reactor Coolant Piping - Steam Generator #2, Cold Leg A M2-92-10633

5. (a) Applicable Construction Code ASME Section III 1971 Edition, 71 Summer Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, 81W Addenda, Code Cases

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|------------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Reactor Coolant Piping | Bechtel | | | | 30-CCA-2 W28 | 1975 | Replaced | Yes (N/A) |
| | CE | | | | 503-03-3 | 1992 | Repaired | Yes (B31.7) |
| | Fluor | | | | 30-CCA-2 | 1992 | Replacement | No |
| | | | | | | | | |

7. Description of Work See Attachment

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 2295 psi Test Temp. 532°F

9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] Senior Engineer February 10, 19 93
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by SGRP 13-14 of Hartford, CT have inspected the Repair/Replacement described in this Report (Repair(s) or Replacement(s))
on Jan 8, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 19 FEB 93 [Signature] CH 1137
11 FEB 93 [Signature] Commissions M2-92-10633
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/07/93
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California M2-92-03342 M2-92-03242
(Address) *6/2/93* M2-92-03347 M2-92-1181F
M2-92-1-633

4. Identification of System Reactor Coolant Piping - Steam Generator #2, Cold Leg A

7. Description of Work: Steam Generator Replacement necessitated the cutting of reactor coolant piping at the steam generator nozzles. The steam generator nozzle-to-reactor coolant piping weldments were partially replaced. Original Bechtel weld identification was W28 per Drawing 25203-20152 Sheet 143.

Temporary attachments were placed on the piping adjacent to the pipe-to-nozzle weldment. During removal of these attachments, the piping base material was nicked requiring repair.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/07/93
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)

2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)

3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California MZ-92-03342, MZ-92-03317
(Address)

4. Identification of System Reactor Coolant Piping - Steam Generator #2, Hot Leg

5. (a) Applicable Construction Code ASME Section III 1971 Edition, 71 Summer Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|------------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Reactor Coolant Piping | Bechtel | | | | 42-CCA-1 W15 | 1975 | Replaced | Yes (N/A) |
| | Fluor | | | | 42-CCA-1 | 1992 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 2295 psi Test Temp. 532°F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed William L. Engler Title Owner Date January 26, 19 93
(Owner or Owner's Designee)

CERTIFICATE OF COMPLIANCE

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, employed by WATKINS of Waterford, CT have inspected the Replacement described in this Report
(Repair(s) or Replacement(s))

on Jan 8, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11 FEB 93 W. L. Engler Commissions W5012
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/07/93
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California
(Address)
4. Identification of System Reactor Coolant Piping - Steam Generator #2, Hot Leg

7. Description of Work: Steam Generator Replacement necessitated the cutting of reactor coolant piping at the steam generator nozzles. The steam generator nozzle-to-reactor coolant piping weldments were partially replaced. Original Bechtel weld identification was W15 per Drawing 25203-20153, Sheet 143.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California M2-92-03340 M2-92-10945
(Address) M2-92-03315 SGRP II
4. Identification of System Reactor Coolant Piping - Steam Generator #1, Cold Leg B

5. (a) Applicable Construction Code ASME Section III 1971 Edition, 71 Summer Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|------------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Reactor Coolant Piping | Bechtel | | | | 30-CCA-2 W14 | 1975 | Replaced | Yes (N/A) |
| | CE | | | | 503-03-4 | 1992 | Repaired | Yes (B31.7) |
| | Fluor | | | | 30-CCA-2 | 1992 | Replacement | No |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 2295 psi Test Temp. 532°F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] Title February 10, 19 93
(Owner or Owner's Designee) (Date)

CERTIFICATE OF COMPLIANCE

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, employed by Fluor Constructors of Waterford, CT have inspected the Reactor Coolant Piping described in this Report (Repair(s) or Replacement(s)) on 1/08, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 19 FEB 93 [Signature] ANI
4 FEB 93 [Signature] Commissions W 5012
(Inspector) ANI (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California M2-92-03340 M2-92-10945 ISCRP II
(Address) M2-92-03315
4. Identification of System Reactor Coolant Piping - Steam Generator #1, Cold Leg B

7. Description of Work: Steam Generator Replacement necessitated the cutting of reactor coolant piping at the steam generator nozzles. The steam generator nozzle-to-reactor coolant piping weldments were partially replaced. Original Bechtel weld identification was W10 per Drawing 25203-20152, Sheet 143.

Temporary attachments were placed on the piping adjacent to the pipe-to-nozzle weldment. During removal of these attachments, the piping base material was nicked requiring repair.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California M2-92-03340 M2-92-10945
(Address) M2-92-02904
4. Identification of System Reactor Coolant Piping - Steam Generator #1, Cold Leg A
5. (a) Applicable Construction Code ASME Section III 1971 Edition, 71 Summer Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|------------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Reactor Coolant Piping | Bechtel | | | | 30-CCA-2 W-10 | 1975 | Replaced | Yes (N/A) |
| | CE | | | | 503-03-1 | 1992 | Repaired | Yes (B31.7) |
| | Fluor | | | | 30-CCA-2 | 1992 | Replacement | No |
| | | | | | | | | |

7. Description of Work ✓
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure 2295 psi Test Temp. 532 °F
9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] [Signature] February, 19 93
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by NORNEC of Waterford CT have inspected the Repair + Replacement described in this Report (Repair(s) or Replacement(s))

on Jan 8, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 19 FEB 93 [Signature] 41137 ANZ
Date 11 FEB 93 [Signature] Commissions 14502
(Inspector) (State or Province, National Board)

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FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California M2-92-03340 M2-92-10945
(Address) M2-92-02904
4. Identification of System Reactor Coolant Piping - Steam Generator #1, Cold Leg A

7. Description of Work: Steam Generator Replacement necessitated the cutting of reactor coolant piping at the steam generator nozzles. The steam generator nozzle-to-reactor coolant piping weldments were partially replaced. Original Bechtel weld identification was W14 per Drawing 25203-20152, Sheet 143.

Temporary attachments were placed on the piping adjacent to the pipe-to-nozzle weldment. During removal of these attachments, the piping base material was nicked requiring repair.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California AWO M2-92-03340 2000 9, 10, 11
(Address) M2-92-03318
4. Identification of System Reactor Coolant Piping - Steam Generator #1, Hot Leg

5. (a) Applicable Construction Code ASME Section III 1971 Edition, 71 Summer Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|------------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| Reactor Coolant Piping | Bechtel | | | | 42-CCA-1 W-1 | 1975 | Replaced | Yes (N/A) |
| | Fluor | | | | 42-CCA-1 | 1992 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 2295 psi Test Temp. 532°F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Arthur L. Carne February 10, 19 93
(Owner or Owner's Designee) (Date)

CERTIFICATE OF COMPLIANCE

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, employed by NIS-2 of Waterford, CT have inspected the Replacement described in this Report (Repair(s) or Replacement(s))

on Jan 8, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 19 FEB 1993 YORK ANZ 041137
11 FEB 93 YORK Commissions IN 5012
(Inspector) AW (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/08/93
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California AWO M2-92-03340
(Address) M2-92-03318
4. Identification of System Reactor Coolant Piping - Steam Generator #1, Hot Leg
7. Description of Work: Steam Generator Replacement necessitated the cutting of reactor coolant piping at the steam generator nozzles. The steam generator nozzle-to-reactor coolant piping weldments were partially replaced. Original Bechtel weld identification was W1 per Drawing 25203-20152, Sheet 143.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 11/30/92
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California See Attached Sheet
(Address)
4. Identification of System Steam Generator #2
5. (a) Applicable Construction Code 19 Edition, Addenda, Code Cases - SEE ATTACHMENT
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|-------------|-----------------------------------|-------------------------------|
| Steam Generator | CE | 67511 | 20929 | | | 1968 S69 | Partial Replacement | Yes |
| | B&W | 761202 | 124 | | | 1983 S84 | Replacement | Yes |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure Other - SEE ATTACHMENT
Pressure psi Test Temp. °F
9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Albert J. Fanning 10, 19 93
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF COMPLIANCE

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, employed by NSI-IG of Hartford, CT have inspected the Replacement described in this Report on Dec 8-9 1992 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 19 FEB 1993 MARK FINE CT1137
11 FEB 93 PNM Commissions 64562
(Inspector) AW (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 11/30/92
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California See Attached Sheet
(Address)
4. Identification of System Steam Generator #2

5. Applicable Construction Code: The original construction code for the steam generator was ASME Section III, 1968 Edition including 1969 Summer Addenda. The replacement subassembly was fabricated to ASME Section III, 1983 Edition including Summer, 1984 Addenda.

7. Description of Work: A partial replacement and modification of the steam generator was performed. The original steam generator was cut in the middle of the secondary side transition cone. The upper portion of the steam generator was modified and retained. Modification included replacement of steam drum internals, addition of main steam line flow restrictor and feedwater nozzle reconfiguration.

A new lower assembly including tube bundle, primary channel head and secondary shell to middle of transition cone was installed as replacement. This subassembly was NPT stamped.

Modifications to the steam generator steam drum pressure boundary included removal of feedwater nozzle safe-end, remachining of feedwater nozzle and the introduction of flow restrictor attachment to main steam outlet nozzle.

8. Tests Conducted: The primary side of the steam generator received a shop hydrostatic test per ASME Section III at 3250 psi. After installation, the primary side shall receive a Section XI hydrostatic test at 2295 psi (1.02 x operating pressure). The secondary side shall receive a Section XI hydrostatic test at 1250 psi (1.25 x design pressure).

WORK PERFORMED PER FOLLOWING WORK ORDERS:

| | |
|-------------|-------------|
| M2-92-01898 | M2-92-12397 |
| M2-92-01895 | M2-91-10852 |
| M2-92-01936 | M2-92-00285 |
| M2-92-01893 | M2-92-01771 |
| M2-92-04410 | M2-92-04733 |
| M2-92-01936 | M2-92-01769 |
| M2-92-04412 | M2-92-02363 |
| M2-91-09036 | M2-92-03337 |

FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III, Division 1
Not To Exceed One Day's Production

Pg 1 of 2

1. Manufactured and certified by The Japan Steel Works, Ltd., Muroran Plant/4-Chatsu-Machi, Muroran,
(name and address of certificate holder) Hokkaido 051, Japan
2. Manufactured for Babcock & Wilcox Canada, a division of Babcock & Wilcox Industries Ltd, Coronation
(name and address of purchaser) Bird, Cambridge, Ontario, Canada
3. Location of installation Millstone Unit 2 Generating Station Waterford, Connecticut, USA NIR 5V3
(name and address)
4. Type N145581W, Rev.4 SA508, C1.3 Min. 80ksi - 1989
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1983 1984 S. Addenda 1 -
(edition) (addenda) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
(No.)
7. Remarks: - Hydrostatic test is not performed in Japan Steel Works, Ltd.
- Cladding thickness is Min. 6 mm.
- Cladding materials are SFA-5.4, AWS C1. E309L-16 + E308L-16.

8. Nom. thickness (in.) 7" Min. design thickness (in.) 7" Dia. ID (ft. & in.) 12'-5 3/8" Length overall (ft. & in.) 6'-6 13/16"
9. When applicable, Certificate Holders' data reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. In Numerical Order | Part or Appurtenance Serial Number | National Board Number In Numerical Order |
|---------------------------------------|---|---------------------------------------|--|
| 1002 | 207 | (26) | |
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Design pressure 2500 psi Temp 650 °F Hydro. test pressure - at temp - °F
(when applicable)

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

(6/85)-1

This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017.

CERTIFICATE OF DESIGN

Design specifications certified by _____ P. E. state _____ Reg. no. _____
 (when applicable)

Design report* certified by _____ P. E. state _____ Reg. no. _____
 (when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Primary Head Stainless Steel Cladding
 conform to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization no. N-2725 Expires June 16, 1989
 Date Jan 11, '89 Name The Japan Steel Works, Ltd.
Muroran Plant Signed H. TSUKADA
 (NPT Certificate Holder)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of Illinois and employed by H.S.B.I. & I.CO.
 of Conn. have inspected these items described in this data report on 1-11-89 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 1-11-89 Signed H. KAWABATA Commissions NB # 10145N
 (Authorized Inspector)
 (Natl. Bd. (incl. endorsements) state or prov. and no.)
H. KAWABATA

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

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

Pg. 1 of 6

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Blvd., Cambridge, Ontario
(Name and address of NPT Certificate Holder)
2. Manufactured for Northeast Utilities Service Company, P.O. Box 270, Hartford, Connecticut, 06141-0270
(Name and address of purchaser)
3. Location of installation Millstone II, Waterford, Connecticut
(Name and address)
4. Type 7612 E101 Rev. 04 - See Attached List #1 - 1991
(Drawing no.) (Mat'l. spec. no.) (Tensile strength) (CRN) (Year built)
5. ASME Code, Section III: 1983 Summer 1984 1 See attached list #2
(Edition) (Addenda date) (Class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) --- Revision --- Date ---
(No.)
7. Remarks: Secondary side hydro test has not been performed.
Post-hydrotest final NDE has not been performed on the secondary side.

8. Nom. thickness (in.) See Att. list #3 Min. design thickness (in.) See Att. list #3 Dia. ID (ft & in.) See Att. list #3 Length overall (ft & in.) 43'-11"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report.

| Part or Appurtenance Serial Number | National Board No. in Numerical Order | Part or Appurtenance Serial Number | National Board Number in Numerical Order |
|---------------------------------------|---|---------------------------------------|--|
| (1) <u>761202</u> | <u>124</u> | (26) _____ | |
| (2) _____ | | (27) _____ | |
| (3) _____ | | (28) _____ | |
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10. Design pressure See Attached List #4 Temp. See Attached List #4 Hydro. test pressure See Attached List #4 (when applicable)

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

CERTIFICATION OF DESIGN

Design specifications certified by R. P. Necci P.E. State CT Reg. no. 11513
(when applicable)

Design report* certified by R. G. Klarner P.E. State Ont. Reg. no. 24064503
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Steam Generator Sub-Assembly (See Fig. 1)
 conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2791 Expires January 13, 1992

Date JUN 19 1991 Name Babcock & Wilcox Canada Signed EK Dahl
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
Ontario and employed by Ministry of Consumer & Commercial Relations
 of Ontario have inspected these items described in this Data Report on JUN 19 1991, and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
 III. Each part listed has been authorized for stamping on the date shown above.

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

Date JUN 19 1991 Signed [Signature] Commissions NB# 8112
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

Form N-2
Mfr. Serial No.:

761202

Page 2 of 6

Manufactured for:

Northeast Utilities Service Company
P.O. Box 270, Hartford, Connecticut, 06141-0270

Location of Installation:

Millstone II, Waterford, Connecticut

List #1

| | Material Specification No. | Tensile Strength |
|--------------------------------------|-------------------------------|---------------------|
| Channel Head | SA508 CL.3 | 80 ksi |
| Primary Side Inlet Nozzle | SA508 CL.3 | 80 ksi |
| Primary Side Outlet Nozzles | SA508 CL.3 | 80 ksi |
| Primary Side Inlet Nozzle Safe End | SA508 CL.1 | 70 ksi |
| Primary Side Outlet Nozzle Safe Ends | SA508 CL.1 | 70 ksi |
| Tubesheet | SA508 CL.3 | 80 ksi |
| Tubes | SB-163 N-20 (Alloy 690) | 80 ksi |
| Secondary Side Shell Plates | SA533 GR.B CL.1 | 80 ksi |
| Secondary Side Cone Plate | SA533 GR.B CL.1 | 80 ksi |
| Primary Manway Covers | SA533 GR.B CL.1 | 80 ksi |
| Secondary Handholes | SA508 CL.3 | 80 ksi |
| Secondary Handhole Covers | SA533 GR.B CL.1 | 80 ksi |
| Stay Cylinder | SA508 CL.3 | 80 ksi |
| Base Support Skirt | SA533 GR.B CL.1 | 80 ksi |

Form N-2
Mfr. Serial No.:

761202

Page 3 of 6

Manufactured for:

Northeast Utilities Service Company
P.O. Box 270, Hartford, Connecticut, 06141-0270

Location of Installation:

Millstone II, Waterford, Connecticut

List #2

Code Cases:

| | |
|---------|---------|
| N-20 | 7/16/82 |
| N-10 | 1/21/82 |
| N-474-1 | 3/6/90 |

Form N-2
Mfr. Serial No.:

761202

Page 4 of 6

Manufactured for:

Northeast Utilities Service Company
P.O. Box 270, Hartford, Connecticut, 06141-0270

Location of Installation:

Millstone II, Waterford, Connecticut

List #3

| | Nominal Thickness | Min. Design Thickness | Inner Diameter |
|----------------------------------|----------------------|--------------------------|-------------------|
| Channel Head | 7" | 7.000" | - |
| Tubesheet | 21.75" | 21.440" | - |
| Tubes | 0.045" | 0.041" | 0.660" Nom. |
| Secondary Side Shell Plates | | | |
| 1/ Shell Section Below Cone | 4" | 3.813" | 13' - 2½" |
| 2/ Middle Shell Section | 3.3125" | 3.100" | 13' - 2½" |
| 3/ Shell Section Above Tubesheet | 4.3125" | 4.000" | 13' - 2½" |
| Secondary Side Cone Plate | 5.75" | 5.563" | - |

Form N-2
Mfr. Serial No.:

761202

Page 5 of 6

Manufactured for:

Northeast Utilities Service Company
P.O. Box 270, Hartford, Connecticut, 06141-0270

Location of Installation:

Millstone II, Waterford, Connecticut

List #4

| | Secondary Side | Primary Side |
|-------------------------|-------------------|-----------------|
| Design Pressure | 1015 psia | 2500 psia |
| Design Temperature | 550°F | 650°F |
| Hydro. Test Pressure | - | 3125 psia |
| Hydro. Test Temperature | - | 70°F |

Form N-2
Mfr. Serial No.:

761202

Page 6 of 6

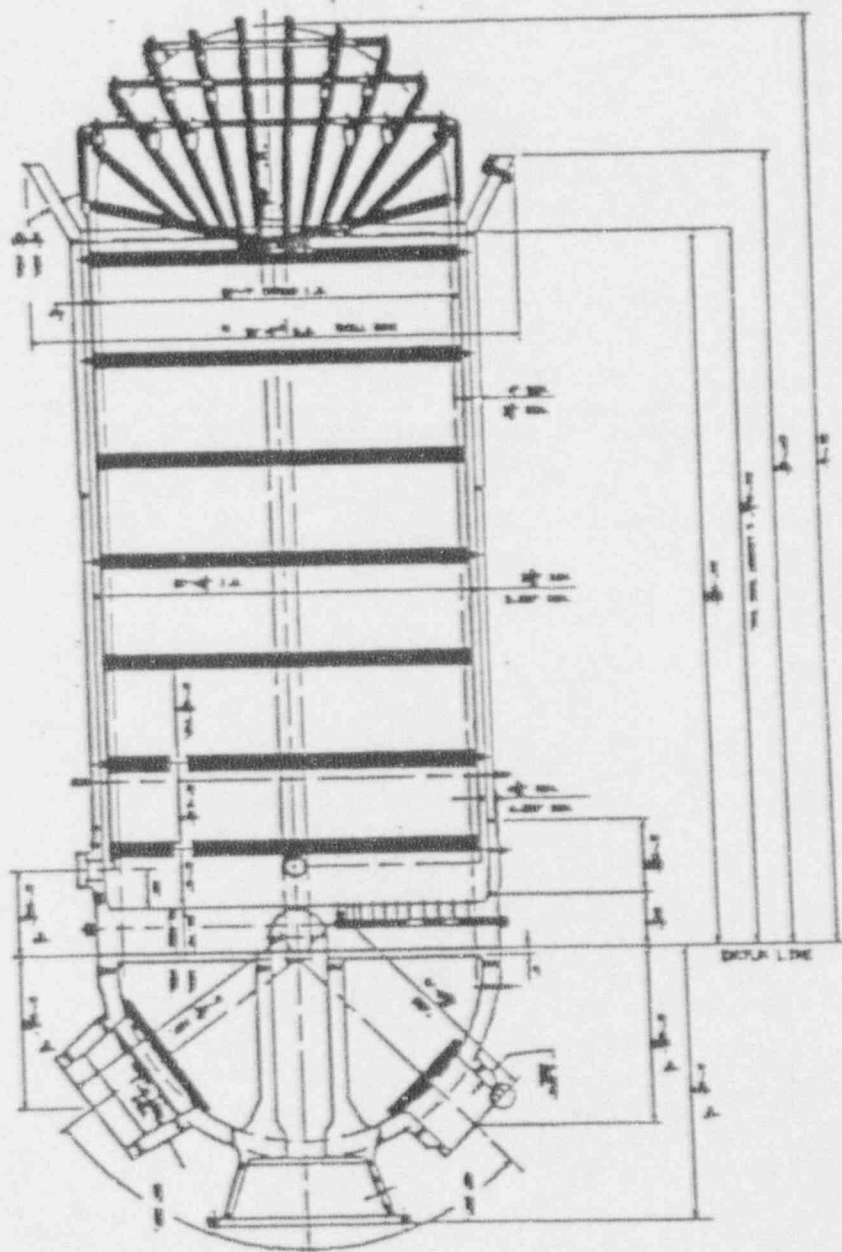
Manufactured for:

Northeast Utilities Service Company
P.O. Box 270, Hartford, Connecticut, 06141-0270

Location of Installation:

Millstone II, Waterford, Connecticut

Figure 1
General Arrangement



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

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

Pg. 1 of 1

- Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Blvd., Cambridge, Ontario
(Name and address of NPT Certificate Holder)
- Manufactured for Northeast Utilities Service Company, P. O. Box 270, Hartford, Connecticut 0614
(Name and address of purchaser) 0270
- Location of installation Millstone II, Waterford, Connecticut
(Name and address)
- Type 7612D275 Rev. 04 SA 533 Gr. B Cl. 1 80 ksi 1991
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
- ASME Code, Section III: 1983 Summer 1984 1 N/A
(edition) (addenda date) (class) (Code Case no.)
- Fabricated in accordance with Const. Spec. (Div. 2 only) — Revision — Date —
(Inc.)
- Remarks: Hydro test has not been performed.

- Nom. thickness (in.) 5.25 Min. design thickness (in.) 4.75 Dia. 2 (ft & in.) 2 - 4.5 Length overall (ft & in.) N/A
- When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|---------------------------------------|---|
| (1) <u>761203</u> | <u>126</u> |
| (2) <u>761204</u> | <u>127</u> |
| (3) _____ | |
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| Part or Appurtenance Serial Number | National Board Number in Numerical Order |
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| (49) _____ | |
| (50) _____ | |

10. Design pressure 2500 psi. Temp. 650 °F. Hydro. test pressure See Remarks at temp. °F
(When applicable)

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

(12-86)

This form (ECC040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

CERTIFICATION OF DESIGN

Design specifications certified by R. P. Necci P.E. State Ct. Reg. no. 11513
(when applicable)

Design report* certified by R. G. Klarner P.E. Prov. Ont. Reg. no. 24064503
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Primary Manway Covers
 conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2791 Expires January 13, 1992

Date SEP 16 1991 Name Babcock & Wilcox Canada Signed EL Dahlm
(NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ontario and employed by Ministry of Consumer & Commercial Relations of Ontario have inspected these items described in this Data Report on SEP 16 1991 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date SEP 16 1991 Signed [Signature] Commissions NB # 212
(Authorized Inspector) (Nat'l Bd. (incl. endorsements) state or prov. and no.)

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 11/30/92
(Name)
Waterford, Connecticut Sheet 1 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California See Attached Sheet
(Address)
4. Identification of System Steam Generator #1
5. (a) Applicable Construction Code 19 Edition, See Attachment Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components
- | Name of Component | Name of Mfr. | Mfrs. Ser. No. | Net'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|---------------|-----------------------------------|-------------------------------|
| Steam Generator | CE | CE67510 | 20928 | | | 1968 S69 | Partial Replacement | Yes |
| | B&W | 761201 | 123 | | | 1983 1984S | Subassembly | Yes |
| | | | | | | | | |
| | | | | | | | | |
7. Description of Work See Attachment
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure Other - SEE ATTACHMENT
Pressure psi Test Temp. °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Charles L. Engen Title Engineer Date February 10, 1993
(Owner or Owner's Designee)

CERTIFICATE OF COMPLIANCE

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, employed by NSB-I-6 of Waterford, CT have inspected the Replacement described in this Report (Repairs or Replacement(s))
on Dec 8-9 1992 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11 FEB 93 ANII Commissions CT1137
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 11/30/92
(Name)
Waterford, Connecticut Sheet 2 of 2
(Address)
2. Plant Millstone Unit Two
(Name)
Waterford, Connecticut
(Address)
3. Work Performed by Fluor Constructors Fluor Constructors
(Name) Repair Organization P.O. No., Job No., etc.
Irvine, California See Attached Sheet
(Address)
4. Identification of System Steam Generator #1

5. Applicable Construction Code: The original construction code for the steam generator was ASME Section III, 1968 Edition including 1969 Summer Addenda. The replacement subassembly was fabricated to ASME Section III, 1983 Edition including Summer, 1984 Addenda.

7. Description of Work: A partial replacement and modification of the steam generator was performed. The original steam generator was cut in the middle of the secondary side transition cone. The upper portion of the steam generator was modified and retained. Modification included replacement of steam drum internals, addition of main steam line flow restrictor and feedwater nozzle reconfiguration.

A new lower assembly including tube bundle, primary channel head and secondary shell to middle of transition cone was installed as replacement. This subassembly was NPT stamped.

Modifications to the steam generator steam drum pressure boundary included removal of feedwater nozzle safe-end, remachining of feedwater nozzle and the introduction of flow restrictor attachment to main steam outlet nozzle.

8. Tests Conducted: The primary side of the steam generator received a shop hydrostatic test per ASME Section III at 3250 psi. After installation, the primary side shall receive a Section XI hydrostatic test at 2295 psi (1.02 x operating pressure). The secondary side shall receive a Section XI hydrostatic test at 1250 psi (1.25 x design pressure).

WORK PERFORMED PER AWO'S

| | |
|-------------|-------------|
| M2-92-01899 | M2-91-10846 |
| M2-92-01896 | M2-92-00284 |
| M2-92-12396 | M2-92-02362 |
| M2-92-01935 | M2-92-03366 |
| M2-92-01894 | M2-92-01770 |
| M2-92-04409 | M2-92-03736 |
| M2-92-16727 | M2-92-01769 |
| M2-92-01935 | M2-91-09035 |
| M2-92-04411 | |

FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III, Division 1
Not To Exceed One Day's Production

Page 1 of 2

1. Manufactured and certified by The Japan Steel Works, Ltd., Muroran Plant/4-Chatsu-Machi, Muroran,
(name and address of certificate holder) Hokkaido 051, Japan
2. Manufactured for Babcock & Wilcox Canada, a division of Babcock & Wilcox Industries Ltd. Coronatic
(name and address of purchaser) Bird, Cambridge, Ontario Canada
NIR 5V3
3. Location of installation Millstone Unit 2 Generating Station Waterford, Connecticut, USA
(name and address)
4. Type N145581W, Rev. 4 SA508, C1.3 Min. 80ksi. - 1989
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1983 1984 S. Addenda 1 -
(edition) (addenda) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
(No.)
7. Remarks: - Hydrostatic test is not performed in Japan Steel Works, Ltd.
- Cladding thickness is Min. 6 mm.
- Cladding materials are SFA-5.4, AWS C1. E309L-16 + E308L-16.
8. Nom. thickness (in.) 7" Min. design thickness (in.) 7" Dia. ID (ft. & in.) 12'-5 3/8" Length overall (ft. & in.) 6' - 6 13/16"
9. When applicable, Certificate Holders' data reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. In Numerical Order | Part or Appurtenance Serial Number | National Board Number In Numerical Order |
|---------------------------------------|---|---------------------------------------|--|
| (1) 1001 | 206 | (26) | |
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| (25) | | (50) | |

10. Design pressure 2500 psi Temp. 650 °F. Hydro. test pressure - at temp. °F.
(when applicable)

*Supplemental Information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 X 11, (2) information in Items 2 and 3 on this data report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(5/85)-1

This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017.

CERTIFICATE OF DESIGN

Design specifications certified by _____ P. E. state _____ Reg. no. _____
 (where applicable)

Design report* certified by _____ P. E. state _____ Reg. no. _____
 (where applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Primary Head Stainless Steel Cladding
 conform to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization no. N-2725 Expires June 16, 1989
The Japan Steel Works, Ltd.
 Date Dec. 14, '88 Name Muroran Plant Signed H. TSUKADA
 (NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of Illinois and employed by H.S.B.I. & I. CO.
 of Conn. have inspected these items described in this data report on 12-14-88 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 12-14-88 Signed H. KAWABATA Commissions NB # 10145N
 (Authorized Inspector) (Natl. Bd. (incl. endorsements) state or prov. and no.)

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

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

Pg. 1 of 6

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Blvd., Cambridge, Ontario
(name and address of NPT Certificate Holder)
2. Manufactured for Northeast Utilities Service Company, P.O. Box 270, Hartford, Connecticut 06141-0270
(name and address of purchaser)
3. Location of installation Millstone II, Waterford, Connecticut
(name and address)
4. Type 7612 E101 Rev. 04 - See Attached List #1 - 1991
(drawing no.) (small spec. no.) (tensile strength) (ICRN) (year built)
5. ASME Code, Section III: 1983 Summer 1984 1 See attached list #2
(edition) (audenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
(no.)
7. Remarks: Secondary side hydro test has not been performed.
Post-hydrotest final NDE has not been performed on the secondary side.

8. Nom. thickness (in.) See Att. List #3 Min. design thickness (in.) See Att. List #3 Dia. ID (ft & in.) See Att. List #3 Length overall (ft & in.) 43'-11"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. in Numerical Order | Part or Appurtenance Serial Number | National Board Number in Numerical Order |
|---------------------------------------|---|---------------------------------------|--|
| (1) <u>761201</u> | <u>123</u> | (26) _____ | _____ |
| (2) _____ | _____ | (27) _____ | _____ |
| (3) _____ | _____ | (28) _____ | _____ |
| (4) _____ | _____ | (29) _____ | _____ |
| (5) _____ | _____ | (30) _____ | _____ |
| (6) _____ | _____ | (31) _____ | _____ |
| (7) _____ | _____ | (32) _____ | _____ |
| (8) _____ | _____ | (33) _____ | _____ |
| (9) _____ | _____ | (34) _____ | _____ |
| (10) _____ | _____ | (35) _____ | _____ |
| (11) _____ | _____ | (36) _____ | _____ |
| (12) _____ | _____ | (37) _____ | _____ |
| (13) _____ | _____ | (38) _____ | _____ |
| (14) _____ | _____ | (39) _____ | _____ |
| (15) _____ | _____ | (40) _____ | _____ |
| (16) _____ | _____ | (41) _____ | _____ |
| (17) _____ | _____ | (42) _____ | _____ |
| (18) _____ | _____ | (43) _____ | _____ |
| (19) _____ | _____ | (44) _____ | _____ |
| (20) _____ | _____ | (45) _____ | _____ |
| (21) _____ | _____ | (46) _____ | _____ |
| (22) _____ | _____ | (47) _____ | _____ |
| (23) _____ | _____ | (48) _____ | _____ |
| (24) _____ | _____ | (49) _____ | _____ |
| (25) _____ | _____ | (50) _____ | _____ |

10. Design pressure See Attached List #4 See Attached List #4 See Attached List #4
(psi) (temp.) (hydro. test pressure) (when applicable)

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

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

(12/86)

CERTIFICATION OF DESIGN

Design specifications certified by R. P. Necci P.E. State CT Reg. no. 11513
(when applicable)
 Design report* certified by R. G. Klarner P.E. State ONT Reg. no. 24064503
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Steam Generator Sub-Assembly (See Fig. 1)
 conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2791 Expires January 13, 1992
 Date JUN 13 1991 Name Babcock & Wilcox Canada Signed EB Dahl
(NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ontario and employed by Ministry of Consumer & Commercial Relations
 of Ontario have inspected these items described in this Data Report on JUN 13 1991 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 9/06/13 Signed [Signature] Commissions NB#8112
(Authorized Inspector) (Nat'l. Bd. Incl. endorsements: state or prov. and no.)

Form N-2
Mfr. Serial No.:

761201

Page 2 of 6

Manufactured for:

Northeast Utilities Service Company
P.O. Box 270, Hartford, Connecticut, 06141-0270

Location of Installation:

Millstone II, Waterford, Connecticut

List #1

| | Material Specification No. | Tensile Strength |
|--------------------------------------|-------------------------------|---------------------|
| Channel Head | SA508 CL.3 | 80 ksi |
| Primary Side Inlet Nozzle | SA508 CL.3 | 80 ksi |
| Primary Side Outlet Nozzles | SA508 CL.3 | 80 ksi |
| Primary Side Inlet Nozzle Safe End | SA508 CL.1 | 70 ksi |
| Primary Side Outlet Nozzle Safe Ends | SA508 CL.1 | 70 ksi |
| Tubesheet | SA508 CL.3 | 80 ksi |
| Tubes | SB-163 N-20 (Alloy 690) | 80 ksi |
| Secondary Side Shell Plates | SA533 GR.B CL.1 | 80 ksi |
| Secondary Side Cone Plate | SA533 GR.B CL.1 | 80 ksi |
| Primary Manway Covers | SA533 GR.B CL.1 | 80 ksi |
| Secondary Handholes | SA508 CL.3 | 80 ksi |
| Secondary Handhole Covers | SA533 GR.B CL.1 | 80 ksi |
| Stay Cylinder | SA508 CL.3 | 80 ksi |
| Base Support Skirt | SA533 GR.B CL.1 | 80 ksi |

Form N-2
Mfr. Serial No.:

761201

Page 3 of 6

Manufactured for:

Northeast Utilities Service Company
P.O. Box 270, Hartford, Connecticut, 06141-0270

Location of Installation:

Millstone II, Waterford, Connecticut

List #2

Code Cases:

| | |
|---------|---------|
| N-20 | 7/16/82 |
| N-10 | 1/21/82 |
| N-474-1 | 3/6/90 |

Form N-2
Mfr. Serial No. -

761201

Page 4 of 6

Manufactured for:

Northeast Utilities Service Company
P.O. Box 270, Hartford, Connecticut, 06141-0270

Location of Installation:

Millstone II, Waterford, Connecticut

List #3

| | Nominal Thickness | Min. Design Thickness | Inner Diameter |
|----------------------------------|----------------------|--------------------------|-------------------|
| Channel Head | 7" | 7.000" | - |
| Tubesheet | 21.75" | 21.440" | - |
| Tubes | 0.045" | 0.041" | 0.660" Nom. |
| Secondary Side Shell Plates | | | |
| 1/ Shell Section Below Cone | 4" | 3.813" | 13' - 2 1/2" |
| 2/ Middle Shell Section | 3.3125" | 3.100" | 13' - 2 1/2" |
| 3/ Shell Section Above Tubesheet | 4.3125" | 4.000" | 13' - 2 1/2" |
| Secondary Side Cone Plate | 5.75" | 5.563" | - |

Form N-2
Mfr. Serial No.:

761201

Page 5 of 6

Manufactured for:

Northeast Utilities Service Company
P.O. Box 270, Hartford, Connecticut, 06141-0270

Location of Installation:

Millstone II, Waterford, Connecticut

List #4

| | Secondary Side | Primary Side |
|-------------------------|-------------------|-----------------|
| Design Pressure | 1015 psia | 2500 psia |
| Design Temperature | 550°F | 650°F |
| Hydro. Test Pressure | - | 3125 psia |
| Hydro. Test Temperature | - | 70°F |

Form N-2
Mfr. Serial No.:

761201

Page 6 of 6

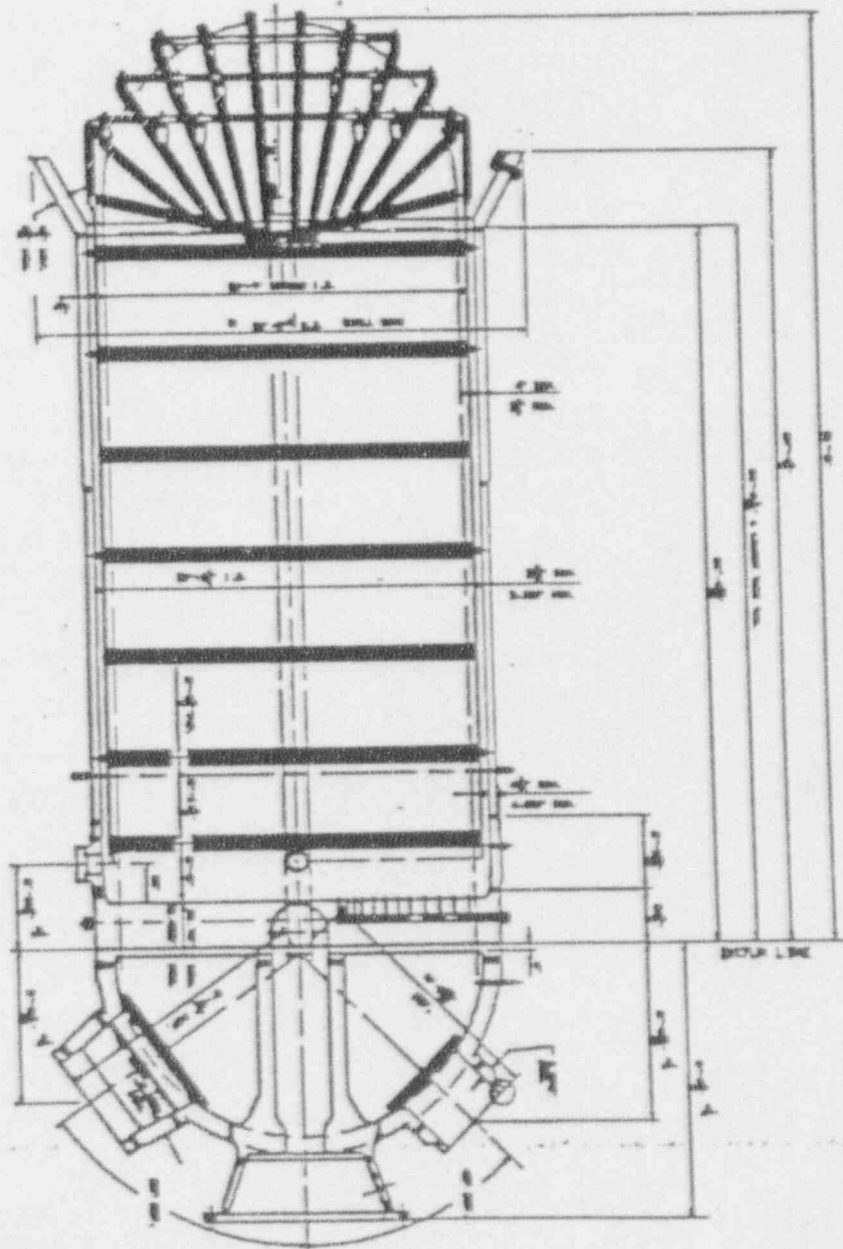
Manufactured for:

Northeast Utilities Service Company
P.O. Box 270, Hartford, Connecticut, 06141-0270

Location of Installation:

Millstone #1, Waterford, Connecticut

Figure 1
General Arrangement



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

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

Pg. 1 of 1

- Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Blvd., Cambridge, Ontario
(Name and address of NPT Certificate holder)
- Manufactured for Northeast Utilities Service Company, P. O. Box 270, Hartford, Connecticut 0614
(Name and address of purchaser) 0270
- Location of installation Millstone II, Waterford, Connecticut
(Name and address)
- Type 7612D275 Rev. 04 SA 533 Gr. B Cl. 1 80 ksi - 1991
(Drawing no.) (Mat'l. spec. no.) (Tensile strength) (CRN) (Year built)
- ASME Code, Section III: 1983 Summer 1984 1 N/A
(Edition) (Addenda date) (Class) (Code Case no.)
- Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
(No.)
- Remarks: Hydro test has not been performed.

- Nom. thickness (in.) 5.25 Min. design thickness (in.) 4.75 Dia. Ø (ft & in.) 2 - 4.5 Length overall (ft & in.) N/A
- When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. in Numerical Order | Part or Appurtenance Serial Number | National Board Number in Numerical Order |
|---------------------------------------|---|---------------------------------------|--|
| (1) 761203 | 126 | (26) | |
| (2) 761204 | 127 | (27) | |
| (3) | | (28) | |
| (4) | | (29) | |
| (5) | | (30) | |
| (6) | | (31) | |
| (7) | | (32) | |
| (8) | | (33) | |
| (9) | | (34) | |
| (10) | | (35) | |
| (11) | | (36) | |
| (12) | | (37) | |
| (13) | | (38) | |
| (14) | | (39) | |
| (15) | | (40) | |
| (16) | | (41) | |
| (17) | | (42) | |
| (18) | | (43) | |
| (19) | | (44) | |
| (20) | | (45) | |
| (21) | | (46) | |
| (22) | | (47) | |
| (23) | | (48) | |
| (24) | | (49) | |
| (25) | | (50) | |

Design pressure 2500 psi. Temp. 650 °F. Hydro test pressure See Remarks at temp. °F
(When applicable)

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

(12/85) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

CERTIFICATION OF DESIGN

Design specifications certified by R. P. Necci P.E. State Ct. Reg. no. 11513
(when applicable)

Design report* certified by R. G. Klarner P.E. Prov. - Ont. Reg. no. 24064503
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Primary Manway Covers
 conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2791 Expires January 13, 1992

Date SEP 16 1991 Name Babcock & Wilcox Canada
(NPT Certificate Holder)

Signed EL Dahlm
(authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ontario and employed by Ministry of Consumer & Commercial Relations of Ontario have inspected these items described in this Data Report on SEP 16 1991 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date SEP 16 1991 Signed [Signature]
(Authorized Inspector)

Commissions 115-2112
(Nat'l. Bd. Incl. endorsements, state or prov. and no.)

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/28/93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Address)
2. Plant Millstone Unit _____
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. Dresser Industries PO# 885482, MAIR# 292-087
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address) Main Steam
4. Identification of System _____
5. (a) Applicable Construction Code ASME 1968 Edition _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, W 81 Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 2-MS-254 | Dresser | BN 4963 | NB | | PSV 4229 | 1973 | Replaced | yes |
| 2-MS-242 | Dresser | BN 4964 | NB | | PSV 4236 | 1973 | Replaced | yes |
| 2-MS-244 | Dresser | BN 4970 | NB | | PSV 4238 | 1973 | Replaced | yes |
| 2-MS-248 | Dresser | BN 4975 | NB | | PSV 4232 | 1973 | Replaced | yes |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Replaced Discs
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure 900 psi Test Temp. 532 °F
9. Remarks Leak test performed under AWC's M2-92-4391, M2-92-4372, M2-92-4374
and M2-92-4377
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Mark J. Hagan Station Technician Jan. 29 1993
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO. of HARTFORD, CT have inspected the DISC REPLMNT described in this Report on 11 JANUARY, 1993
 (Repairs or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 05 APRIL 1993 E. YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/18/93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address)
2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. AWO M2-90-11353
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System Main Steam Blowdown
5. (a) Applicable Construction Code ASME III 1971 Edition, W81 Addenda, Code Cases ---
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980 Addenda, Code Cases ---
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Natl. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|---------------|---------|---|------------|------------------------------------|-------------------------------|
| 2-MS-220A | Morganti | N00126-6-1 | --- | --- | NRIBs: NUTS 492-068-1 STUDS 389-137-349 | | replaced | No |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Replaced body to bonnet studs
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
 Pressure 1200 psi Test Temp. --- °F
9. Remarks (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed ALG Letter Mont Engineer 1/18, 19 93
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the BOLTING REPLMNT described in this Report on 09 DECEMBER, 19 92
 (Repairs) or Replacement(s)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 19 MARCH 1993 E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1-8-92
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
(Name) (Address)
2. Plant Millstone Unit _____
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. M2-90-13553
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
(Address)
4. Identification of System Main Steam Blowdown
5. (a) Applicable Construction Code ASME III 19 71 Edition, _____ Addenda, Code Cases _____
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, WB1 Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfr. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|-------------------|-------------------|----------------|-----------|----------------------|------------|------------------------------------|-------------------------------|
| <u>2-MS-220B</u> | <u>Masmeillan</u> | <u>N00216-6-2</u> | <u>--</u> | <u>--</u> | <u>MAIRS:</u> | | <u>Replaced</u> | <u>NO</u> |
| | | | | | <u>NUT</u> | | | |
| | | | | | <u>992-06B-1</u> | | | |
| | | | | | <u>STUP</u> | | | |
| | | | | | <u>289-137-399</u> | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Replaced body to bonnet bolts
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 900 psi Test Temp. 553°F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Paul H. Goble Mt. Engineer 1/9, 19 92
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the BOLTING REPLMNT described in this Report on 08 JANUARY, 1993
(Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 19 MARCH 1993 E YORK Commissions CT 1137
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date FEBRUARY 22, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address) 2
2. Plant Millstone Unit _____
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. AWO M2-92-05255
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System SAFETY INJECTION
5. (a) Applicable Construction Code ASME III 1968 Edition, _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1982, 1981 Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-----------------------------|--------------|---------------------------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| <u>2-SI-652^x</u> | <u>VELAN</u> | <u>(A2-0634)</u> <u>N-17</u> | - | - | - | - | <u>REPAIR</u> | <u>YES (N)</u> |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work ① MACHINING VALV BONNET IN SEAL RING SEATING SURFACE TO REMOVE ALL
② WELD REPAIR AND MACHINING VALV BODY IN SEAL RING SEATING SURFACE
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure 22 psi Test Temp. 83 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Thomas A. Nott Title ASME ENGINEER Date FEB 22, 1993
 (Owner or Owner's Designee)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the REPAIR described in this Report on 01 MARCH, 1993 (Repairs or Replacements)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 01 MARCH 1993 E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date FEBRUARY 22, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address) 2
2. Plant Millstone Unit _____
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. - AWO M2-92-12813
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System SAFETY INJECTION
5. (a) Applicable Construction Code ASME B31.7 - 1967 Edition Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, 1981 Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|---------------|----------------|----------------|----------|---|------------|------------------------------------|-------------------------------|
| <u>2-SI-657</u> | <u>FISHER</u> | <u>5467053</u> | <u>-</u> | <u>-</u> | <u>MRIR</u> | | <u>REPLACEMENT</u> | <u>NO</u> |
| | | | | | <u>2-65-80</u> <u>(SEAL RING AND BOLT)</u> | | | |
| | | | | | <u>MRIR</u> | | | |
| | | | | | <u>2-9-75</u> <u>(FLANGE STUD BOLTS)</u> | | <u>REPLACEMENT</u> | <u>NO</u> |

7. Description of Work REPLACED (1) SEAL RING AND BOLT AND (1) FLANGE STUD BOLT
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure 405 psi Test Temp. 140 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Thomas A. Moran MNTC ENGINEER Title FEB. 22 19 93
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the BOLTING REPLMNT described in this Report on 04 JANUARY, 19 93
 (Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 16 MARCH 1993 E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date Jan 19, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address) Unit 2
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. AWO M2-92-05323
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME Part IV 1968 Edition 1968 Addenda, Code Cases —
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1982, WBI Addenda, Code Cases —
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-----------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| <u>2-RC-403 Valve</u> | <u>Wedge</u> | <u>IN 3888</u> | | | <u>MRIR</u> | | <u>replaced wedge</u> | <u>Value: yes</u> |
| | | | | | <u>292-237</u> | | | |
| | | | | | <u>1/2 #</u> | | | |
| | | | | | <u>5990225</u> | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Replaced wedge
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
 Pressure 2210 psi Test Temp. 533°F
9. Remarks NEW WEDGE MATZ APPROVED VIA R.I.E. #AF6-MPRE-92-018; removed indication from NEW WEDGE per NCR 292-864. Machine: wedge to fit valve per NCR 292-887.

CERTIFICATE OF COMPLIANCE

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

Signed JL Collette Matz Engr. Jan 19, 19 93
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the BOLT/G REPLMNT described in this Report on 08 JANUARY, 19 93
 (State or Province, National Board)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 22 MARCH 1993 E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date Jan 18, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address)
 2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
 (Address)
 3. Work Performed by Northeast Nuclear Energy Co. AWO M2-91-13037
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
 4. Identification of System Safety Injection
 5. (a) Applicable Construction Code ASME Edition 1980 Addenda, Code Cases WB1
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, WB1 Addenda, Code Cases —
 6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 2-SI-410 | Atwood | 22-094-04 | | | | | repaired | NO |
| | Worrell | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work LP'd existing "scrape" on internal surface of valve body
 8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ EMF 2136-4
 Pressure _____ psi Test Temp. _____ °F
 9. Remarks WORK WAS PERFORMED IAW NCR 292-883.
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Paul H. Collette Maint Engineer 1/18, 1993
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER I&I CO. of HARTFORD, CT have inspected the REPAIR described in this Report on 02 MARCH, 1993
 (Repairs or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 03 MARCH 1993 E YORK Commissions CT 1137
 (Inspected) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., information in Items 1 through 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner: Northeast Nuclear Energy Company Date: FEBRUARY 22, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address) Unit: 2
2. Plant: Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by: Northeast Nuclear Energy Co. AWO M2-92-14374
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System: CHARGING
5. (a) Applicable Construction Code ANSI B31.7 - 1969 ED Edition, 1969 ED Addenda, Code Cases ---
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, WRI Addenda, Code Cases ---
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-----------------------|--------------|----------------|----------------|----------|------------------------|------------------|------------------------------------|-------------------------------|
| <u>FE-212</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>MAIL 300-181-18</u> | <u>FOR STUDS</u> | <u>REPLACEMENT</u> | <u>No</u> |
| <u>STUDS AND NUTS</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>MAIL 300-181-18</u> | <u>FOR STUDS</u> | <u>REPLACEMENT</u> | <u>No</u> |
| <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>MAIL 300-181-18</u> | <u>FOR STUDS</u> | <u>REPLACEMENT</u> | <u>No</u> |
| <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>MAIL 300-181-18</u> | <u>FOR STUDS</u> | <u>REPLACEMENT</u> | <u>No</u> |
| <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>MAIL 300-181-18</u> | <u>FOR STUDS</u> | <u>REPLACEMENT</u> | <u>No</u> |

7. Description of Work: REPLACED FLANGE STUDS AND NUTS (8) 1" GR86 STUDS, (16) 1" GR 8 NUTS
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ JOINT HAS HAD MANY LEAKS.
 Pressure: 378 psi Test Temp: 378 °F
9. Remarks: FLANGED JOINT AT CRIBBLE PLATE LEAKING AT RETEST. AWO M2-92-14374
 (Applicable Manufacturer's Data Reports to be attached)
ATTEMPTED TO TIGHTEN UNSUCCESSFULLY. AWO M2-93-00950 WILL CONTINUE REPAIR
IN LATE NEXT REVELING

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPLACEMENT conforms to Section XI of the:
 ASME Code. (repair or replacement)

Signed: Thomas J. Moore Title: UPR ENGINEER Date: 3/5/93
 (Owner or Owner's Designee)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO. of
HARTFORD, CT have inspected the REVIEWED BOLTING REPLMNT described in this Report on 08-10-93, 1993
 (Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date: 10 MARCH 1993 E YORK Commissions: CT 1137
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., information in items 1 through 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date Jan 18, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address)
 2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
 (Address)
 3. Work Performed by Northeast Nuclear Energy Co. AWO M2-92-14958
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
 4. Identification of System Charging
 5. (a) Applicable Construction Code ASME B31.1 Edition 1980 Addenda, Code Cases WPI
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements -- 19 80, WPI Addenda, Code Cases ---
 6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 2-CH-432 | Velan | 934-1 | | | MR1A | 1974 | replaced | Yes |
| | | | | | #MP2- | | | |
| | | | | | 24-74 | | | |
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| | | | | | | | | |

7. Description of Work Performed Weld build-up of socket weld ends; machined butt weld ends, LP:RTx new weld
 8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
 Pressure 2310 psi Test Temp. 533°F
 9. Remarks NCR 901 Authorized socket weld to butt weld ends
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed PJ Lollotte Mntg Engineer 1/18 19 93
 (Owner or Owner's Designer) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the REPAIR/RPLMNT described in this Report on 08 JANUARY, 19 93
 (Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 23 MARCH 1993 E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date FEBRUARY 22, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Address) Unit 2
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. ALWO M2-91-14015
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System MAIN STEAM
5. (a) Applicable Construction Code ASME 1985 Edition, ASME Addenda, Code Cases -
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1990 Addenda, Code Cases -
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|---------------|----------------|----------------|----------|----------------------|------------|------------------------------------|-------------------------------|
| <u>2-M5-L4A</u> | <u>ATWOOD</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>REPAIR</u> | <u>NO</u> |
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7. Description of Work WELD BUILD UP AND WORKING OF 34" CHECK VALVE BODY AT SEAL RING SEATING SURFACE
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure 900 psi Test Temp. 532 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR conforms to Section XI of the ASME Code.

Signed Thomas D. Moore NATE ENGINEER Title 2/22 19 93
 (Owner or Owner's Designer) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO. of HARTFORD, CT have inspected the WELD REPAIR described in this Report on 25 MARCH, 19 93

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 25 MARCH 1993 Inspector E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date Jan 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
(Name) (Address) Unit 2
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. AWO M2-89-5715
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
(Address)
4. Identification of System Charge 19 / Letdown
5. (a) Applicable Construction Code ASME 19 68 Edition, Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 80, WPI Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-----------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| <u>2-CH-442 Valve</u> | | | | | <u>MR112</u> | | <u>replace wedge</u> | <u>Valve: yes</u> |
| | | | | | <u>NP2-24-74</u> | | | |
| | | | | | <u>76</u> | | | |
| | | | | | <u>59901337</u> | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Weld build-up (stellite) new wedge; machine to suit valve; install
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 2310 psi Test Temp. 553 °F
9. Remarks Weld build-up of new wedge approved via NCR 292-9B1
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Aldo Lettieri Mntz Engineer 1/19, 19 93
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the REPLACEMENT described in this Report on 08 JANUARY, 19 93
(Repairs or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 24 MARCH 1993 E York E YORK Commissions CT 1137
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1-14-93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
 3. Work Performed by Northeast Nuclear Energy Co. AWO M2-92-16825
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 4. Identification of System Charging
 5. (a) Applicable Construction Code ASME B1PV 19-71 Edition, — Addenda, Code Cases —
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, w81 Addenda, Code Cases —
 6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 2-CH-51B | Fisher | 5167850 | — | — | — | | Replacement | Yes |
| | | | | | | | | |
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7. Description of Work Replaced plug (disc)
 8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure 2310 psi Test Temp. 224 °F
 9. Remarks "NEW DISC" WAS RETURNED VIA AWO M2-92-16825. Parts
were originally removed from identical valve 2-CH-519, re-surfaced

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.
 Signed PHH/letter MUTC Eng'g JAN 14, 1993
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut, employed by Waterford Steam Boiler Inspection Inc. of Waterford, Ct. have inspected the Replacement described in this Report on Jan 2, 1993 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date Feb 18, 1993 Philip J. ... Commissions CTU37
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1-14-93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385 AWO M2-92-18730
AWO M2-92-17147
 3. Work Performed by Northeast Nuclear Energy Co. Repair Organization P.O. No., Job No., etc.
P.O. Box 128 Waterford, Ct.
 4. Identification of System Main Feedwater
 5. (a) Applicable Construction Code ASME II G2 19 71 Edition, — Addenda, Code Cases —
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, VB1 Addenda, Code Cases —
 6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|-----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 2-FW-5A | Armstrong | Model # 12692-1 | | | | | repaired | Yes |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

7. Description of Work ① APPLIED weld build-up to disk back stop ② Machined body to Feasible Gasket
 8. Tests Conducted: ☒ Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other PS2
 Pressure 1200 psi Test Temp. — °F
 9. Remarks ① weld build-up authorized by NCR 292-1090. ② Gasket Modification
Authorized by PPCR 2-200-92. Hydro after weld build-up as part
of SIM GEN Hydro. In-service leak tested after gasket modification.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.
 Signed [Signature] Title Matt Ginnien Date 1/21/93
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO. of HARTFORD CT have inspected the REPAIR described in this Report on 08 JANUARY, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 29 MARCH 1993 [Signature] E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1-14-93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address)
2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
 (Address)
3. Work Performed by Northeast Nuclear Energy Co. AWO M2-92-18732
P.O. Box 128 Waterford, Ct. AWO M2-91-13122
 (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Main Feedwater
5. (a) Applicable Construction Code ASME B31.1 19 71 Edition, — Addenda, Code Cases —
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, 6/81 Addenda, Code Cases —
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|---------------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 2-FW 5B | Arwood (Atterill) | Model # 12.692-H | | | | | repaired | Yes |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work ① APPLIED Weld build-up to disc BACKSTOP ② Machined body for Flowitalic gasket
8. Tests Conducted: ☒ Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ ①
 Pressure 1280 psi Test Temp. — °F
9. Remarks ① Repair authorized by NCR 292-1030. ② Basket modification
authorized by PRCR 2-200-92. Hydro'd after weld build-up as part of
Steam Hydro. In-service leak test after basket modification.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR conforms to Section XI of the ASME Code.

Signed PLI Collette Maint Engineer Jan 14, 19 93
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO. of HARTFORD, CT have inspected the REPAIR described in this Report on 08 JANUARY, 19 93

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 29 MARCH 1993 E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date FEBRUARY 24, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Address) Unit 2
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. - AWO M2-92-12273
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
4. Identification of System REACTOR COOLANT (ICI)
5. (a) Applicable Construction Code ASME III 1982 Edition, WB Addenda, Code Cases —
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1982, WB Addenda, Code Cases —
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|--------------------------|--------------|----------------|----------------|----------|----------------------|--------------|------------------------------------|-------------------------------|
| <u>H1</u> | <u>CE</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>MRIR</u> | <u>FOA</u> | <u>REPLACEMENT</u> | <u>NO</u> |
| <u>ICI FLANGE (HEAD)</u> | | | | | <u>292-128</u> | <u>STUDS</u> | | |
| <u>#5</u> | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work REPLACED (9) 1 3/4" STUDS ON ICI FLANGE NO. 5.
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
 Pressure 2310 psi Test Temp. 533 °F
9. Remarks
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Thomas A. Moran UNIC ENGINEER FEB 24 19 93
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO. of HARTFORD, CT have inspected the REPLACEMENT described in this Report on 08 JANUARY, 19 93
 (Repairs) or Replacement(s)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 12 MARCH 1993 E. YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1-18-93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
 3. Work Performed by Northeast Nuclear Energy Co. AWO M2-92-3484
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 4. Identification of System Containment Penetration - Fuel Transfer Flange
 5. (a) Applicable Construction Code ASME III 62.19 80 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, W81 Addenda, Code Cases
 6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-----------------------------|--------------|----------------|----------------|---------|-----------------------|------------|------------------------------------|-------------------------------|
| <u>Fuel Transfer FLANGE</u> | | | | | <u>SPEC SP-4E-727</u> | | <u>replacement</u> | <u>NO</u> |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work REPAIRED "lost" bolting
 8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒
 Pressure 56 psi Test Temp. AMM-F
 9. Remarks PRESSURE TESTED VIA LOCAL LEAK RATE TESTING, OPS FORM 2605C-2
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.
 Signed PJL Gatto Maint. Engr. 1/18, 1992
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO. of HARTFORD, CT have inspected the BOLTING REPLMNT described in this Report on 08 JANUARY, 1993
 (Repair(s) or Replacement(s))
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 18 MARCH 1993 EYEL E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., information in items 1 through 4 on this data report is included on each sheet, and (2) each sheet is numbered the number of sheets is recorded at the top of this form.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner NORTHEAST NUCLEAR ENERGY COMPANY Date Jan 29, 91
P.O. Box 128 WATERFORD, CT 06385 Sheet 1 of 1
 (Name) (Address)
2. Plant MILLSTONE Unit 2
P.O. Box 128 WATERFORD, CT 06385 AWO M2-90-16145 (Cold leg)
 (Name) (Address) AWO M2-90-16146 (Hot leg)
3. Work Performed by NORTHEAST Nuclear Energy Co. Repair Organization P.O. No., Job No., etc.
P.O. Box 128 Waterford, CT 06385
 (Name) (Address)
4. Identification of System Reactor Containment
5. (a) Applicable Construction Code ASME III Sub 19.6 Edition Summary 69 Addenda, Code Cases —
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, 401 Addenda, Code Cases —
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| X-25 | | | | | | | | |
| No. 1 Steam | | | | | | | | |
| Primary Manifold | | | | | | | | |
| 16 STUDS | Cardinal | — | — | — | MRIR 289-109-1 | 1989 | REPLACED | NO |
| 9 NUTS | A+G | | | | MRIR 289-179-1 | 1989 | REPLACED | NO |

7. Description of Work REPLACED 16 STUDS AND 9 NUTS HOT LEG: 8 STUDS 6 NUTS
 COLD LEG: 8 STUDS 3 NUTS
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure 2265 psi Test Temp. 532 °F
9. Remarks Refer to NCR 290-605 for STUD CHANGING TEST RESULT EVALUATION.
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPLACEMENT conforms to Section XI of the ASME Code.
 Signed Paul H. Colletta Maintenance Engineer Jan 29, 1991
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSP&INS CO
HARTFORD, CT have inspected the REPLACEMENTS described in this Report on MAY 04, 1991
 [Repairs or Replacement(s)]
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date MAY 04, 1991 E.A. YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner NORTHEAST NUCLEAR ENERGY COMPANY Date Jan. 29, 1991
P.O. Box 128 (Name) WATERFORD, CT 06385 Sheet 1 of 1
(Address)
2. Plant MILLSTONE Unit 2
P.O. Box 128 (Name) WATERFORD, CT 06385 AWO M2-90-16147 (Cold Leg)
(Address) AWO M2-90-16149 (Hot Leg)
3. Work Performed by NORTHEAST Nuclear Energy Co. Repair Organization P.O. No., Job No., etc.
P.O. Box 128 (Name) WATERFORD, CT 06385 (Address)
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME III 1968 Edition, Summary 49 Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80 4/81 Addenda, Code Cases —
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| X-26, | | | | | | | | |
| No 2 Steam Gen | | | | | | | | |
| Primary Manifold | | | | | | | | |
| 39 STUDS | Cardinal | — | — | — | MRIR 289-209-1 | 1989 | REPLACED | NO |
| 11 NUTS | A:G | | | | MRIR 289-174 | 1989 | REPLACED | NO |
| 6 STUDS | EG:G | | | | MRIR 283-120-1 | 1983 | REPLACED | NO |

7. Description of Work REPLACED 9 STUDS AND 11 NUTS: HOT Leg: 5 STUDS 11 NUTS
COLD Leg: 4 STUDS
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 2265 psi Test Temp. 535 °F
9. Remarks Refer to NCR 290-605 for STUD Charpy Test Result Evaluation.
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Paul J. Collette Maint. Engr. 1/29, 19 91
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSP&INSCO
HARTFORD, CT have inspected the REPLACEMENTS described in this Report on MAY 04, 19 91
(Repairs or Replacement(s))
and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date MAY 04, 1991 E.A. YORK Commissions CT 1137
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner NORTHEAST NUCLEAR ENERGY COMPANY Date Jan 29, 1991
P.O. Box 128 WATERFORD, CT 06385 Sheet 1 of 1
(Address)
2. Plant MILLSTONE Unit 2
P.O. Box 128 WATERFORD, CT 06385
(Address)
3. Work Performed by NORTHEAST Nuclear Energy Co. Repair Organization P.O. No., Job No., etc. AWO M2-90-16203
P.O. Box 128 Waterford, CT 06385
(Address)
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME II LA, 19 68 Edition, Summary 69 Addenda, Code Cases ---
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 80, WB1 Addenda, Code Cases ---
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|-----------------|----------------|----------------|----------|----------------------|-------------|------------------------------------|-------------------------------|
| <u>Pressure T-37</u> | | | | | | | | |
| <u>Primary Manifold</u> | | | | | | | | |
| <u>1 Stud</u> | <u>Cardinal</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>MRIR 289-304W</u> | <u>1989</u> | <u>REPLACED</u> | <u>NO</u> |
| <u>NUT</u> | | | | | <u>MRIR 289-177</u> | | <u>REPLACED</u> | <u>NO</u> |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

N/A
PAC 1/29/91

7. Description of Work REPLACED 1 STUD(S)
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Normal Operating Pressure ☒ Other ☐
Pressure 2265 psi Test Temp. 235 °F
9. Remarks Refers to NCR 290-605 for Stud Charpy Test Result Evaluation.
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Paul Volante Title MAINTENANCE ENGINEER Date Jan 29, 1991
(Owner or Owner's Designee)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSP&INSCO
HARTFORD, CT have inspected the REPLACEMENT described in this Report on MAY 04, 1991
(Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date MAY 04, 1991 E.A. YORK Commissions CT 1137
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- Owner Northeast Nuclear Energy Company Date 9/22/92
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
(Name) (Address)
- Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
- Work Performed by Northeast Nuclear Energy Co. AWO N2-91-05669
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
(Address)
- Identification of System RCS
- (a) Applicable Construction Code ASME III 19 68 Edition, 1969 Addenda, Code Cases ASME II 80-W80
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 80, W80 Addenda, Code Cases
- Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|--------------------------|--------------------|----------------|----------------|----------|----------------------|------------|------------------------------------|-------------------------------|
| <u>PRESSURIZER STUDS</u> | <u>STUD MFG CO</u> | <u>291-037</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>91</u> | <u>Replacement</u> | <u>NO</u> |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

- Description of Work Replaced 3 Pressurizer Nonway Studs
- Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 2250 psi Test Temp 232 °F
- Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code (repair or replacement)
Signed Robert L. Engineers 9/22, 19 92
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & REPAIR CO HARTFORD, CT have inspected the 3 STUDS REPLMNT described in this Report on JUNE 17, 1991
(Repair(s) or Replacement(s))
and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 10-05-92 E. YORK Commissions CT 1137
(Inspector) (State or Province, National Board)

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 4 on this data report is included on each sheet, and (3) each sheet is numbered the number of sheets is recorded at the top of this form.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner: NORTHEAST NUCLEAR ENERGY COMPANY Date: 6/3/91
P.O. Box 128 (Address) WATERFORD, CT 06385 Sheet 1 of 1
2. Plant: "MILLSTONE" Unit: 2
P.O. Box 128 (Address) WATERFORD, CT 06385
3. Work Performed by: NORTHEAST Nuclear Energy Co. AWO M2-90-14107
P.O. Box 128 (Address) WATERFORD, CT 06385 Repair Organization P.O. No., Job No., etc.
4. Identification of System: FEEDWATER
5. (a) Applicable Construction Code: PUMP & VALVE Edition: 68 Addenda, Code Cases: ---
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1980 Addenda, Code Cases: ---
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Natl. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|---------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 2-FW-5A STUDS | | --- | --- | --- | MR12 291-019-3 | --- | REPLACEMENT | NO |
| 2-FW-5A NUTS | | --- | --- | --- | MR12 291-019-1 | --- | REPLACEMENT | NO |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work: REPLACED ALL 20 CLOSURE STUDS AND NUTS (1 1/2" - 5/8" - 1/2" - 5/8")
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure: 910 psi Test Temp: 437 °F
9. Remarks: YML 6/2/91
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR conforms to Section XI of the ASME Code. REPLACEMENT YML 6/3/91

Signed: [Signature] Title: MAINT ENGR Date: 6/3/91
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSP & INS CO of HARTFORD, CT have inspected the BOLTING REPLACEMENT described in this Report on 1/4/91 THRU 7/2, 1991 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date: JULY 02, 1991 Commissions: CT 1137
E A VOIT (Inspector's Name) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner NORTHEAST Nuclear Energy Company Date 6/3/91
P.O. Box 128 (Name) WATERFORD, CT 06385 (Address) Sheet 1 of 1
2. Plant MILLSTONE Unit 2
P.O. Box 128 (Name) WATERFORD, CT 06385 (Address)
3. Work Performed by NORTHEAST Nuclear Energy Co. AWO MZ-90-14107
P.O. Box 128 (Name) WATERFORD, CT 06385 (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System FEEDWATER
5. (a) Applicable Construction Code ASME B31.1 Edition 1980 Addenda, Code Cases W51
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980 Addenda, Code Cases W51
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Natl. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------|----------------|---------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| <u>3-FW-5A</u> | <u>ATWOOD</u> | | | | | | <u>REPAIRED</u> | <u>NO</u> |
| | <u>MORRILL</u> | | | | | | | |
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7. Description of Work WELDED REPAIR OF BODY GASKET SEATING SURFACE / MAIN COVER
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 910 psi Test Temp. 437 °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR conforms to Section XI of the ASME Code.

Signed Thomas P. Motta Title MAINT ENGR Date 6/3, 1991
(Owner or Owner's Designee)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the REPAIR described in this Report on 1/4/91 THRU 7/2, 1991 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date JULY 02, 1991 Inspector E. A. YORK Commissions CT 1137
(State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner NORTHEAST NUCLEAR ENERGY COMPANY Date 1/8/91
P.O. Box 128 WATERFORD, CT 06385 Sheet 1 of 1
(Name) (Address)
2. Plant MILLSTONE Unit 2
P.O. Box 128 WATERFORD, CT 06385
(Name) (Address)
3. Work Performed by NORTHEAST Nuclear Energy Co. AWO MZ-90-14109
P.O. Box 128 Waterford, CT 06385
(Name) (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System MAIN STEAM
5. (a) Applicable Construction Code GB PUMP & T.V.V. Edition CLASS 2 Addenda, Code Cases ---
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 80 Addenda, Code Cases ---
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|---------------------|----------------|----------------|------------|----------------------|------------|------------------------------------|-------------------------------|
| <u>2-AIS-190A</u> | <u>CONES VULCAN</u> | <u>---</u> | <u>---</u> | <u>---</u> | <u>---</u> | <u>---</u> | <u>REPLACEMENT</u> | <u>NO</u> |
| <u>NUTS</u> | | | | | <u>MRIR-291-019</u> | | | |
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7. Description of Work REPLACED ALL (8) 1 3/8" Ø BOTTOM COVER NUTS
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 335 psi Test Temp 520 °F
9. Remarks (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPLACEMENT conforms to Section XI of the ASME Code.
Signed Thomas A. Moore Title MAINT. EDGR Date 1/8, 1991
(Owner or Owner's Designer)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by HSBIEICO, of CONN. have inspected the REPLACEMENTS described in this Report on 1/23, 1991
(Repairs or Replacement(s))
and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 1/03/91 (Inspector) J. P. [Signature] Commissions NB10644 CT1062
(State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner NORTHEAST NUCLEAR ENERGY COMPANY Date 1/8/91
P.O. Box 128 (Name) WATERFORD, CT 06385 (Address) Sheet 1 of 1
2. Plant MILLSTONE Unit 2
P.O. Box 128 (Name) WATERFORD, CT 06385 (Address)
3. Work Performed by NORTHEAST Nuclear Energy Co. AWO M2-90-14109
P.O. Box 128 (Name) Waterford, CT 06385 (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System M/VN STEAM
5. (a) Applicable Construction Code CBPUMP + VALVE Edition CLASS 2 Addenda, Code Cases _____
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 80, WB1 Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|----------------|----------------|----------|----------------------|------------|------------------------------------|-------------------------------|
| <u>2-MS-190A</u> | <u>COPE'S VULCAN</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>REPAIRED</u> | <u>NO</u> |
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7. Description of Work MACHINED BOTTOM COVER TO REMOVE STEAM CUTTING
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 835 psi Test Temp. 520°F
9. Remarks NUSCO DRAWING 25202-29087, SHEET 1
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR conforms to Section XI of the ASME Code (repair or replacement)

Signed Thomas A. Moore Title MAINT ENGINEER Date 1/8, 1991
(Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by HSBIS INC. of CONN have inspected the REPAIRS described in this Report on 1/23, 1991
(Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/23/91 (Inspector) Jan P. [Signature] Commissions NB 10644 CT 1262
(State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date FEBRUARY 22, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address) Unit 2
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. - AWO M2-91-04949
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System CHARGING
5. (a) Applicable Construction Code PLMP & VLE 19 LE Edition, — Addenda, Code Cases —
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, W81 Addenda, Code Cases —
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Ed. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| P-18A | GALIN | 87B030 | — | — | MARK 2-285-284 | — | REPLACED | NO |
| 'A' CHG PMP | | | | | | | | |
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7. Description of Work REPLACED CRACKED CHARGING PUMP BLOCK
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure 2300 psi Test Temp. 108 °F
9. Remarks NEW BLOCK IS SHOP PEENED AND HAS LARGER RADII AT BORE TRANSITION
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPLACEMENT conforms to Section XI of the ASME Code.
 Signed Thomas A. Monahan MNTC ENGINEER Title 2/22 19 93
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the REPLACEMENT described in this Report on 05-24-91, 19 91
 (Repair(s) or Replacement(s))
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 03-03-93 E YORK Commissions CT 1137
 (Inspector) (State or Province National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/2/92
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address)
2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. AWO 112-91-05623
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System 3316 MAIN STEAM
5. (a) Applicable Construction Code ASME SEC. I Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1992, Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|---------------|------------------|----------------|----------|----------------------|------------|------------------------------------|-------------------------------|
| <u>2-MS-19-A</u> | <u>COOPER</u> | <u>710-95210</u> | <u>-1-1</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>REPAIR</u> | <u>NO</u> |
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7. Description of Work REPAIR OF PLUG TO INCORPORATE DESIGN CHANGE
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure 250 psi Test Temp. 250 °F
9. Remarks CRACKS IN WELD PLUG FOR PLUG RINGS WERE MACHINED DEEPER
PER WELDING SPECIFICATION.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR conforms to Section XI of the ASME Code.
 (Repair or replacement)

Signed Thomas P. Moore Title INTL ENGR Date 1/2, 1992
 (Owner or Owner's Designee)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the REPAIR described in this Report on 7-8-91, 19

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date JULY 28, 1992 Elizabeth Ford Commissions NB 9384 CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner: Northeast Nuclear Energy Company Date: 1/29/92
P.O. Box 128 Waterford, Ct. 06385 Sheet: 1 of 2
 (Name) (Address)
2. Plant: Millstone Unit: _____
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by: Northeast Nuclear Energy Co. AWO M2-91-12219
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address) (Name)
4. Identification of System: MAIN STEAM
5. (a) Applicable Construction Code: ASME Section XI 19 68 Edition, _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 68, W81 Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|--|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Inlet flange AT Safety Valve 2-MS-242 (6" EBB-2) | DRACO | - | - | - | 6" EBB-2 | - | REPAIRED | PIPING "NPT" STAMP |
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7. Description of Work: Weld repaired and machined 2-MS-242 inlet flange (pipe side) steam cut
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure: 850 psi Test Temp: 522 °F
9. Remarks: PIPE SYSTEM WAS DESIGNED per ANSI B31.7-1969; Valve is 1968 Draft Pumping Co.
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR conforms to Section XI of the ASME Code.
 Signed: Paul H. Glatthorn MAINT ENGR 1/29, 19 92
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPECTION & INS. CO. of HARTFORD, CT have inspected the REPAIR described in this Report on FEBRUARY 24, 19 92 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date: 24 FEB 92 E YORK Commissions: CT 1137 NB 9384
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 5/6/92
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
(Name) (Address)
2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
(Address)
3. Work Performed by Northeast Nuclear Energy Co. AWO MZ-91-12244
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
(Address)
4. Identification of System 2316 MAIN STEAM
5. (a) Applicable Construction Code ASME III 1971 Edition W72 Addenda, Code Cases ---
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, W81 Addenda, Code Cases ---
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|---------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1. 2-MS-220B | MASONEILIAN | N/A | N/A | N/A | --- | --- | REPAIR | NO |
| | | N-00126-6-2 | | | | | | |
| 2. (8) 5/8" X 3/16" | SEE MRL | N/A | N/A | N/A | NRIR | --- | REPLACEMENT | NO |
| 193, 88 STUDS | | | | | 390-291-1 | | | |

7. Description of Work 1. MACHINE BONNET GASKET SEATING SURFACE
2. REPLACE BODY/BONNET STUDS
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 550 psi Test Temp. 525 °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR / REPLACEMENT conforms to Section XI of the ASME Code.
(repair or replacement)

Signed Thomas A. Moore MAINT ENGR 5/6, 19 92
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the REPAIR & REPLMNT described in this Report on 06 JANUARY, 19 92
(Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 04 AUGUS. E YORK Commissions CT 1137
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner, Northeast Nuclear Energy Company Date 1/15/92
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
(Name) (Address)
2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. AWO MD-91-13216
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
(Address)
4. Identification of System MAIN STEAM
5. (a) Applicable Construction Code ASME B31.1 Edition, 1990 Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1990 Addenda, Code Cases —
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|----------|----------------------|--------------------|------------------------------------|-------------------------------|
| <u>3-MINUTE</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>REPLACEMENT</u> | <u>NO</u> |
| | | | | | <u>SEE NCR</u> | <u>291-287</u> | <u>AWO 291-310</u> | |
| | | | | | | <u>AWO 291-310</u> | <u>MRIR 291-212-19</u> | |
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7. Description of Work REPAIRED MINOR LEAK ON 2" LBS IN CONTROL VALVE
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 350 psi Test Temp. 525 °F
9. Remarks (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Thomas J. York WITNESSES 1/15, 19 92
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO. of HARTFORD, CT have inspected the REPLACEMENT described in this Report on 6 JANUARY ———, 1992
(Repairs or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 29 JULY 1992 ELIZABETH YORK CT 1137 NB 9384
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1-18-93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address) Unit 2
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. AWO M2-92-00614
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System RCS
5. (a) Applicable Construction Code ASME CC 1 19 68 Edition Summary 69 Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, 81 Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|-----------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| <u>HJTC</u> | <u>GRAYLOCK</u> | | | | <u>STUD MARK:</u> | | <u>replacement</u> | <u>NO</u> |
| <u>GRAYLOCK</u> | | | | | <u>286-M231</u> | | | |
| <u>FLANGE</u> | | | | | <u>NUTS</u> | | | |
| | | | | | <u>289-59-5</u> | | | |
| | | | | | <u>289-57-5</u> | | | |

7. Description of Work replace (1) stud & (2) nuts on "B" HJTC flange
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
 Pressure 2310 psi Test Temp 533 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.
 Signed P. J. G. Latta Metc Engineers 1/18, 19 93
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the BOLT & RPLMNT described in this Report on 22 MARCH & 11 DECEMBER, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 22 MARCH 1993 E. YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 3/26/93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
(Address)
2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. AUC# M292-15230
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
(Address)
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code SC-19.6B Edition 1980 Addenda, Code Cases _____
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980 Addenda, Code Cases WINTER 1
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRT No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|-------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| COVER HT-X | BYRON | 222424 | | | 291-099 | 1991 | REPLACEMENT | YES |
| ROT. ELEMENT | JAX | REVERA 34157 | | | 287-116 | 1966 | REPLACEMENT | YES, NO RE 3/26/93 |
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7. Description of Work REMOVED ORIGINAL ROTATING ELEMENT & COVER & INSTALLED NEW COMPONENTS.
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 210 psi Test Temp 553 °F
9. Remarks ORIGINAL PUMP SN-061-N-0451 (RLFA)
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPLACEMENT conforms to Section XI of the ASME Code.
Signed John L. Cismone SRENG 3/26/93 19_____
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO.
HARTFORD, CT have inspected the REPLACEMENT/BLOCK described in this Report on 30 MARCH, 1993
(Repairs or Replacement(s))
and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 30 MARCH 1993 E YORK Commissions CT 1137
(Inspector) (State or Province, National Board)
*reviewed & verified

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1-9-93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
(Address) Unit 2
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. M2-91-13033
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
(Address)
4. Identification of System Basic Acid
5. (a) Applicable Construction Code ASME VIII 19 68 Edition, - Addenda, Code Cases -
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 80, WB1 Addenda, Code Cases -
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 2-CH-155 | Velox | - | - | - | G238-M3-II-C | 1973 | Replacement | No |
| | | | | | | | | |
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7. Description of Work Replace nut and stud
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 117 psi Test Temp. 80 °F
9. Remarks (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.
Signed [Signature] Engineer January 9, 1993
(Owner or Owner's Designer) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN&INS CO.
HARTFORD, CT have inspected the BOLT& RPLMNT described in this Report on 08 JANUARY, 1993
(Repairs or Replacements)
and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.
Date 30 MARCH 1993 [Signature] E YORK Commissions CT 1137
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1-8-93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
(Address)
2. Plant Millstone Unit _____
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. AWO M2-92-06297
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
(Address)
4. Identification of System Safety INJECTION
5. (a) Applicable Construction Code ASME Part 1, Sec. 19.6B Edition _____ Addenda, Code Cases _____
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19.80, WBI Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 2-SI-008 | Velan | | | | | | REPAIRED | No |
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7. Description of Work Re-MACHINED Bonnet to restore seal ring seating surface
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 1282 psi Test Temp. 65 °F
9. Remarks WORK PERFORMED JAW NCR 292-948
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR conforms to Section XI of the ASME Code.

Signed Paul H. Colletto HNTE Engineer JAW 8, 19 93
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO, of HARTFORD, CT, have inspected the MACHING REPAIR described in this Report on 08 JANUARY, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 30 MARCH 1993 E YORK Commissions CT 1137
(Inspector) (State or Province, National Board)

*reviewed/verified

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1-18-93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
 3. Work Performed by Northeast Nuclear Energy Co. AWO M2-92-16719
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 4. Identification of System Letdown
 5. (a) Applicable Construction Code ASME III 42.19 71 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 80, W 81 Addenda, Code Cases
 6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|------------------------------|------------|------------------------------------|-------------------------------|
| 2-CH-515 | Fisher | 5967848 | | | NEW PLUG MRIR 2-141-77 | | replacement | No |
| | | | | | | | | |
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7. Description of Work replaced valve PLUG & trim
 8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
 Pressure 3310 psi Test Temp. 533 °F
 9. Remarks Hydro'd as part of RCS Hydro. Valve also tested IAW
OPR FROM 26052 (LLRT)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.
 Signed PK Collette Mntg Engineer 1/18 19 93
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the PLUG REPLMNT described in this Report on 17 MARCH & 08 JANUARY, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 17 MARCH 1993 E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1-14-93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address)
2. Plant Millstone Unit _____
P.O. Box 128 Waterford, Ct. 06385
 (Address)
3. Work Performed by Northeast Nuclear Energy Co. AWO M2-92-16667
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System changing
5. (a) Applicable Construction Code ASME III 19 71 Edition, _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 90, W/H Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 2-CH-519 | Fisher | 5467052 | | | | | replacement | Yes |
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7. Description of Work Replaced valve plug (disc)
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
 Pressure 2310 psi Test Temp. 533 °F
9. Remarks EXISTING DISC WAS FITTED. A one-for-one replacement was installed. New plug MEIR # 292-8-7
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed P. H. Hutter Mntz Engr 1-18, 19 93
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the DISC RPLMNT described in this Report on 08 JANUARY, 19 93
 (Repairs or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 18 MARCH 1993 E. YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date FEBRUARY 24, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Address) Unit 2
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. - AWO M2-90-13363
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code ASME III 1991 Edition, Addenda, Code Cases -
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1982, IBC Addenda, Code Cases -
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 2-RC-200 | DRESSER | BN7128 | - | - | MR12 250-250-1 | STUDS | REPLACEMENT | NO |
| | | | | | MR12 250-250-2 | NUT | | |
| | | | | | | | | |
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7. Description of Work REPLACED 1 STUD AND 2 NUTS (1/8" ASTM 193/194 GR B318) AT VALVE INLET
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
 Pressure 2310 psi Test Temp 533 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPLACEMENT conforms to Section XI of the ASME Code (repair or replacement)

Signed Thomas A. Thode MTC ENGINEER FEB 24, 1993
 (Owner or Owner's Designer) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the NUT & STUD REPLACEMENT described in this Report on 08 JANUARY, 1993

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 04 MARCH 1993 E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date FEBRUARY 22, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address) 2
2. Plant Millstone Unit _____
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. - AWO M2-92-18622
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System REACTOR COOLANT SUPPORT
5. (a) Applicable Construction Code ASME-SP-58.19.67 Edition, _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, WRI Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------------|--------------|------------------------------------|-------------------------------|
| <u>HGR</u> | — | — | — | — | <u>1/2" 1/2" 291-231-1</u> | <u>BOLTS</u> | <u>REPLACEMENT</u> | <u>NO</u> |
| <u>408010A</u> | | | | ✓ | <u>391-253-1</u> | <u>NUTS</u> | | |
| <u>AS VLV</u> | | | | | | | | |
| <u>2-R1-201</u> | | | | | | | | |
| | | | | | | | | |
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7. Description of Work REPLACE 1 BOLT AND 1 NUT ON SPRING CAN SUPPORT
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒
 Pressure _____ psi Temp _____ °F
9. Remarks A UT-VISUAL EXAM OF THE INSTALLED SUPPORT WAS MADE VERIFYING
 (Applicable Manufacturers Data Reports to be included) INSTALLATION

CERTIFICATE OF COMPLIANCE

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

Signed Thomas A. Harte NUPEC ENGINEER 2/22/ 1993
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the BOLT'G REPLMNT described in this Report on 04 JANUARY, 1993
 (Repairs or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 16 MARCH 1993 E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- Owner Northeast Nuclear Energy Company Date FEBRUARY 22, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
(Name) (Address)
- Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
- Work Performed by Northeast Nuclear Energy Co. - AWO MZ-92-18621
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
(Address)
- Identification of System REACTOR COOLANT SUPPORT
- (a) Applicable Construction Code ASME-SP-58 19-67 Edition, - Addenda, Code Cases -
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements -- 1982, 481 Addenda, Code Cases -
- Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| HGR | - | - | - | - | PAIR 392-077-1 BOLTS | | REPLACEMENT | NO |
| 408009A | | | | | PAIR 492-073-1 NUTS | | | |
| AT VLV | | | | | | | | |
| 2-RC-200 | | | | | | | | |
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- Description of Work REPLACED 2 BOLTS AND 2 NUTS ON SUPPORT WHICH ATTACHES TO INLET FLANGE ON
- Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ PRESSURIZATION SAFETY 2-RC-200
Pressure psi Test Temp. °F
- Remarks A VT-1 VISUAL EXAM OF THE INSTALLED SUPPORT WAS MADE VERIFYING
(Applicable Manufacturer's Data Reports to be attached) INSTALLATION

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPLACEMENT conforms to Section XI of the:
(repair or replacement)
ASME Code
Signed Thomas A. Moore NTIC ENGINEER FEB 22, 19 93
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT, have inspected the BOLT'G REPLMNT described in this Report on 04 JANUARY, 19 93
(Repair(s) or Replacement(s))
and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 17 MARCH 1993 E YORK Commissions CT 1137
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date FEBRUARY 22, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Address) Unit 2
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. - AWO MZ-92-16821
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System CHARGING
5. (a) Applicable Construction Code ASME III - 1971 Edition, Addenda, Code Cases -
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, 1981 Addenda, Code Cases -
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--|----------------|------------------------------------|-------------------------------|
| 2-CH-517 | FISHER | 4924590 | - | - | <u>721</u> <u>228-194</u> <u>14/12</u> <u>2-11-93</u> <u>(MPSN# MP-SP-858)</u> | <u>4/14/93</u> | REPLACEMENT | NO |
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7. Description of Work REPLACED WORN VALVE DIE PLUG 721 4/14/93
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure 2310 psi Test Temp. 534 °F
9. Remarks
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPLACEMENT conforms to Section XI of the ASME Code.
 Signed Thomas A. Moore MNTC ENGINEER FEB 24 1993
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the PLUG REPLACEMENT described in this Report on 08 JANUARY, 1993
 (Repairs or Replacement(s))
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.
 Date 16 APRIL 1993 E. YORK E. YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of data, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in Items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered. The number of sheets is recorded at the top of this form.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date FEBRUARY 24, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address) Unit 2
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. - AWO M2-92-16784
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System MAIN STEAM
5. (a) Applicable Construction Code 1968 ASME PVV CODE Edition, Addenda, Code Cases -
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, 1991 Addenda, Code Cases -
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|------------------------|-----------------------|----------------|----------|----------------------|------------|------------------------------------|-------------------------------|
| <u>2-MS-190B</u> | <u>W.P.E.S. VOLCAN</u> | <u>7110-95212-1-2</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>REPAIRED</u> | <u>NO</u> |
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7. Description of Work REPAIRED GASKET SEATING SURFACE ON VALVE BODY AND COVER IAW PDCA 2-171-9
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure 900 psi Test Temp. 532 °F
9. Remarks REPAIR PERFORMED UNDER AWO M2-91-13268
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR conforms to Section XI of the ASME Code.
 Signed Thomas A. Morris MNTC ENGINEER Title FEBRUARY 24, 1993
 (Owner or Owner's Designer) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the Machining Repair described in this Report on Jan 11, 1993 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date April 16, 93 [Signature] Commissions CT1137
 (Inspector) (State or Province, National Board)

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 4 on this date 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date FEBRUARY 24, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address) Unit 2
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. - AWO MZ-91-13268
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System MAIN STEAM
5. (a) Applicable Construction Code ASME PUMP + SAND VALVE Edition, 1968 ED Addenda, Code Cases -
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, 1981 Addenda, Code Cases -
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|---------------|----------------|----------------|---------|--|------------|------------------------------------|-------------------------------|
| 2-MS-190B | COPIES VULCAN | 7110-95219-1-2 | - | - | P.O. 93997 FOR PLUG (MIRA 292-341-1) | | * REPAIR + REPLACEMENT | |
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7. Description of Work ① REPAIRED UPPER TRIM GASKET SEATING SURFACE BY MACHINING
② REPLACED INNER PLUG (PILOT PLUG) IN TANDEM TRIM ATM DUMP CONTROL VALVE
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure: 20 psi Test Temp: 532 °F
9. Remarks
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR + REPLACEMENT conforms to Section XI of the:
 ASME Code (repair or replacement)
 Signed Thomas A. Moor MAINT. ENGINEER FEBRUARY 24, 1993
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut, employed by The Hartford Steam Boiler Inspection & Ins. Co. of Hartford Ct. have inspected the Repair + Replace described in this Report on 11 January, 1993
 (Repair or Replacement(s))
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date: 20 April 1993 Chadwick Commissions C71137 NE 9884
 (Inspector) (State or Province, National Board)

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 data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 04-09-93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address)
 2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
 (Name) (Address)
 3. Work Performed by Northeast Nuclear Energy Co. M2-92-08955/08443
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Name) (Address)
 4. Identification of System 231Z CONTAINMENT STRUCTURE SYSTEM - PENETRATIONS
 5. (a) Applicable Construction Code ASME B31.1 19 67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1986 July 86 Addenda, Code Cases
 6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|------------------------|--------------|----------------|----------------|-----------|----------------------|-------------|------------------------------------|-------------------------------|
| <u>6" PIPE BECHTEL</u> | <u>--</u> | <u>--</u> | <u>--</u> | <u>--</u> | <u>PEN#48</u> | <u>1971</u> | <u>REPAIR</u> | <u>NO</u> |
| <u>CAP</u> | | | | | | | | |
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7. Description of Work REMOVED (CUT) 6" PIPE CAP FOR ACCESS - REPLACED WITH ORIGINAL CAP.
 8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒
 Pressure 54 psi Test Temp. 71 °F
 9. Remarks ILRT WAS PERFORMED ON ENTIRE CONTAINMENT STRUCTURE 12-23-92.
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR conforms to Section XI of the ASME Code.
 Signed Thomas G. Quinley Eng. ISE 04-09 19 93
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO. of HARTFORD, CT have inspected the REPAIR described in this Report on 20 DECEMBER, 19 92 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 09 APRIL 1993 E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1/8/93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Name) (Address)
2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
 (Address)
3. Work Performed by Northeast Nuclear Energy Co. AWO No. M2-92-15088
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)
4. Identification of System AUX. FEEDWATER CLASS CLASS
5. (a) Applicable Construction Code ASME III 1971 Edition, WINTER 1981 Addenda, Code Cases 2
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, WINTER Addenda, Code Cases 2
6. Identification of Components Repaired or Replaced, and Replacement Components FBI

| Name of Component | Name of Mfr. | Mfrs. Ser. No. MPSN No. | Nat'l. Ed. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 6" - 90° ELBOW | HUB | 188-181-3 | NA | NA | NA | NA | REPLACED | NA |
| 6" - STRAIGHT | TIOGA | 391-246-1 | NA | NA | NA | NA | REPLACED | NA |
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7. Description of Work REMOVE NON-CONFORMING COMPONENTS, REPLACE ONE FOR ONE.
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
 Pressure 1250 psi Test Temp. °F
9. Remarks NA
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPLACEMENT conforms to Section XI of the ASME Code.
 Signed Carol C. Cygan SENIOR ENGINEER 1-11, 1993
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the REPLACEMENT described in this Report on 09 DECEMBER, 1992 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12 JANUARY 1993 ELIZABETH YORK CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- Owner Northeast Nuclear Energy Company Date FEBRUARY 22, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
(Name) (Address) Unit 2
- Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
- Work Performed by Northeast Nuclear Energy Co. AWO M2-92-13294
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
(Address)
- Identification of System SAFETY INJECTION
- (a) Applicable Construction Code ASME II 1968 Edition, — Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1950, 1981 Addenda, Code Cases —
- Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|-----------------------------------|----------------|----------|----------------------|------------|------------------------------------|-------------------------------|
| <u>2-SI-652</u> | <u>VELAN</u> | <u>(P2-0634)</u> <u>(N-17)</u> | <u>'N'</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>REPAIR</u> | <u>'N' (YES)</u> |
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- Description of Work DRILL 1/4" HOLE ON UPSTREAM SIDE OF VALVE WEDGE TO INSURE HYDRAULIC FORCES WILL EQUALIZE AND ELIMINATE POTENTIAL FOR BINDING
- Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 22 psi Test Temp. 83 °F
- Remarks RETEST PERFORMED PER AWO M2-92-05255
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR conforms to Section XI of the ASME Code.
Signed Thomas J. Moran MUTC ENGR FEB 22, 19 93
(Owner or Owner's Designer) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the REPAIR described in this Report on 01 MARCH, 19 93 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 01 MARCH 1993 E YORR Commissions CT 1137
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date 1-18-93
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Address) Unit 2
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. AWO M2-92-14959
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address) Charge
4. Identification of System _____
5. (a) Applicable Construction Code ASME VIII 1B Edition, _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 80, UB Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|---|-------------|------------------------------------|-------------------------------|
| <u>2-CH-433</u> | <u>Velan</u> | <u>933-1</u> | | | <u>MRIR</u> <u>MP-V-</u> <u>134</u> | <u>1974</u> | <u>replaced</u> | <u>No - see remark</u> |
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7. Description of Work Performed weld build-up of socket welds, machined to butt weld, welded in plant
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
 Pressure 2310 psi Test Temp. 553°F
9. Remarks Valve was upgraded to CLASS 1 via NCR 292-651; Conversion to
butt welds accomplished via NCR 292-901
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.
 Signed R/L Galletti Mate Engineer Jan 18, 19 93
 (Owner or Owner's Designee) Title Date

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the RPLMN/REPAIR described in this Report on 08 JANUARY, 19 93
 (Repairs or Replacement(s))
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 26 MARCH 1993 E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date March 25, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
 (Address) Unit 2

2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385

3. Work Performed by Northeast Nuclear Energy Co. AWO MZ-92-14026
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
 (Address)

4. Identification of System Charging

5. (a) Applicable Construction Code ASME III 1974 Edition S75 Addenda, Code Cases -
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, WB1 Addenda, Code Cases -

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| P18B | APV-GAWLIN | 87E040 | N/A | N/A | N/A | 1989 | Replacement | Yes |
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7. Description of Work Replacement of pump P-18B block assembly.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure 2345 psi Test Temp. 101°F

9. Remarks Manufacturer's hydro at 1600 psi per attached data report.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.
 Signed [Signature] Engineer March 25, 1993
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO.
HARTFORD, CT have inspected the REPLACEMENT described in this Report on 30 MARCH, 1993
 (Repairs or Replacements)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 30 MARCH 1993 [Signature] E YORK Commissions CT 1137
 (Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- Owner Northeast Nuclear Energy Company Date FEBRUARY 22, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
(Address) Unit 2
- Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
- Work Performed by Northeast Nuclear Energy Co. AWO MA-92-00231
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
(Address)
- Identification of System MAIN STEAM Addenda, Code Cases —
- (a) Applicable Construction Code PUMP & VALVE CODE 1982 Edition
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980, WBI Addenda, Code Cases —
- Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| ① 2-MS 65B | VELAN | — | — | — | — | — | REPAIRED | NO |
| ② 2-MS 65B | BONNET CLAMP VELAN | — | — | — | MFR 252-1057 | — | REPLACE | NO |

- ① REPLACED BONNET CLAMP
② RESTORE SEAL RING SEATING SURFACE ON VALVE BONNET BY MACHINING
- Description of Work
 - Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 880 psi Test Temp. 230 °F
 - Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR AND REPLACEMENT conforms to Section XI of the ASME Code.
Signed Thomas A. Moraw MAINTENANCE ENGINEER 2/22, 19 93
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO. of HARTFORD, CT have inspected the BONNET & BNT CLMP described in this Report on 12-8-92, 19 92 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 02-26-93 E YORK Commissions CT 1137
(Inspector) (State or Province, National Board)

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 4 on this data 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 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company Date FEBRUARY 22, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
(Name) (Address) Unit 2
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. AIWO M2-92-01665
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
(Address)
4. Identification of System MAIN STEAM
5. (a) Applicable Construction Code ASME III, 42.19 Edition, 575 Addenda, Code Cases —
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 1980 HB1 Addenda, Code Cases —
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 2-MS4B | ANCHOR DAWLING | — | — | — | — | — | REPAIRED | NO |
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7. Description of Work WELD REPAIR AND MACHINING OF SHAFT COVER GASKET SEATING SURFACE
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
 Pressure 900 psi Test Temp. 532 °F
9. Remarks (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR conforms to Section XI of the
(repair or replacement)
 ASME Code
 Signed Thomas A. Moore MECH ENGINEER FEB 22, 1993
(Owner or Owner's Designer) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the REPAIR described in this Report on 15 FEBRUARY, 1992
(Repair(s) or Replacement(s))
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 10 MARCH 1993 E YORK Commissions CT 1137
(Inspector) (State or Province, National Board)

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FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- Owner Northeast Nuclear Energy Company Date FEBRUARY 23, 1993
P.O. Box 128 Waterford, Ct. 06385 Sheet 1 of 1
(Name) (Address)
- Plant Millstone Unit _____
P.O. Box 128 Waterford, Ct. 06385
- Work Performed by Northeast Nuclear Energy Co. - AWO M2-92-03788
P.O. Box 128 Waterford, Ct. Repair Organization P.O. No., Job No., etc.
(Address)
- Identification of System SAFETY INJECTION
- (a) Applicable Construction Code ASME PLM-19 VALVE Edition, 1968 ED Addenda, Code Cases _____
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, 481 Addenda, Code Cases _____
- Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|---------------|----------------|----------------|----------|----------------------|--------------|------------------------------------|-------------------------------|
| <u>2-SI-227</u> | <u>ATWOOD</u> | <u>MOBILE</u> | <u>-</u> | <u>-</u> | <u>MPR 291-200-1</u> | <u>STUDS</u> | <u>REPLACEMENT</u> | <u>AID</u> |
| | | | | | <u>MPR 292-334-1</u> | <u>NUTS</u> | <u>REPLACEMENT</u> | |
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- Description of Work REPLACED COVER STUDS AND NUTS WITH DESIGN SUITABLE FOR USE WITH
- Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ HYDRAULIC TENSIONER
Pressure 2235 psi Test Temp. 550 °F
- Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPLACEMENT conforms to Section XI of the ASME Code.
Signed [Signature] Title MNTC ENGINEER Date FEB 23, 1993
(Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the BOLTING REPLMNT described in this Report on 08 JANUARY, 1993 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 05 MARCH 1993 [Signature] E YORK Commissions CT 1137
(Inspector) (State or Province, National Board)

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 4 on this data report is included on each sheet, and (3) each sheet is numbered. The number of sheets is recorded at the top of this form.

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company
P.O. Box 128 Waterford, Ct. 06385
Date 1/27/93
2. Plant Millstone
P.O. Box 128 Waterford, Ct. 06385
Sheet 1 of 1
Unit 2
3. Work Performed by Northeast Nuclear Energy Co.
P.O. Box 128 Waterford, Ct. Dresser Industries PO #885482 MAIR #292-087
Repair Organization P.O. No., Job No., etc.

4. Identification of System Main Steam
5. (a) Applicable Construction Code Pump & Valve 1968 Edition 1980, W 81 Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1980, W 81 Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| MS-239 | Dresser | BN4976 | NB | | PSV 4253 | 1973 | Repaired | NV-2 |
| MS-241 | Dresser | BN4968 | NB | | PSV 4235 | 1973 | Repaired | NV-2 |
| MS-244 | Dresser | BN4970 | NB | | PSV 4238 | 1973 | Repaired | NV-2 |
| MS-248 | Dresser | BN4975 | NB | | PSV 4232 | 1973 | Repaired | NV-2 |
| MS-249 | Dresser | BN4965 | NB | | PSV 4226 | 1973 | Repaired | NV-2 |
| MS-250 | Dresser | BN4971 | NB | | PSV 4231 | 1973 | Repaired | NV-2 |
| MS-251 | Dresser | BN4969 | NB | | PSV 4227 | 1973 | Repaired | NV-2 |
| MS-254 | Dresser | BN4963 | NB | | PSV 4229 | 1973 | Repaired | NV-2 |

Description of Work Machined valve and valve Red Note.
Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 100 psi Test Temp. 532 °F
Remarks Leak Test performed under AWC's No. M2-92-2983, M2-92-4371, M2-92-4374, M2-92-4377, M2-92-4378, M2-92-4379, M2-92-4380 and M2-92-4381

CERTIFICATE OF COMPLIANCE

I certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.
Mark J. Wynn Station Technician
(Owner or Owner's Designee) Title Date 1/29/93 19 93

CERTIFICATE OF INSPECTION

I, undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CONNECTICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO, have inspected the REPAIR described in this Report on 11 JANUARY, 19 93.
I am satisfied to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for personal injury or property damage or a loss of any kind arising from or connected with this inspection.
05 APRIL 1993
E YORK Commissions CT 1137
(Inspector) (State or Province, National Board)

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