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

R. J. Fuller
NUSCO ISI Coordinator

Approved By: R. T. Blanchard

R. T. Blanchard
NUPCO ISI Coordinator

SECTION 1

TABLE OF CONTENTS

NUSCO

TABLE OF CONTENTS

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 CL-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 8½ 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 R T 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&IC 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 IWF 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
NU-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. ALFECHE				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. E. ABBOTT	II	II	I		11/23/92
T. T. BOHENKAMPER	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 EXAINATIONS

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	3436
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
86-71	2.00 MHz	1.0 x 1.0"	RTD
8417	1.00 MHz	1.0 x 1.0"	C-E
00841T	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% volumetricexamination 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 Reactr / 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 Dissimular 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 [illegible]
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", Volumeteric (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 (Name) Waterford, Connecticut (Address) — Date 1/06/93 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. AWO A2-92-11112
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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] Lead Engr. January 26, 19 92
(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 I&I Co. of Hartford, CT have inspected the Repair/Mod/Relocated (Repair(s) or Replacement(s)) described in this Report on Dec 08, 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 11 FEB 93 12 FEB 93 NEW YORK ANII CT 1137
(Inspector) ANI (State or Province, National Board) 49

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in Items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 1/05/93 — Sheet 2 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc.
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 (Name) Waterford, Connecticut (Address) — Date 12/15/92 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. AWO - M2-92-17852
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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed G. Melvin Lawton (Owner or Owner's Designee) Title 1/20/ (Date), 19 93

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-I Co of Hartford, CT have inspected the Repair by MADEN [Repair(s) or Replacement(s)] described in this Report 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 11 FEB 93 — Inspector E YORK ANII — 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 8½ 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 (Name) Waterford, Connecticut (Address) — Date 12/15/92; Sheet 2 of 2.

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

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

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 (Name) Waterford, Connecticut (Address) — Date 12/23/92 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. M2-92-17832
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, 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	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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Title Engineer January 26 (Date), 19 93

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 NH, employed by HSB I+I Co of Hartford, CT have inspected the REPAIR (Repair(s) or Replacement(s)) described in this Report 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.

26 Jan 93 [signature] CT 1137 NB 9324

Date 26 Jan 93 (Inspector) Commissions NH 5187 (State or Province, National Board)

NOTE. Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in Items 1 through 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.

AJS.exe (SORP582)

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 (Name) Waterford, Connecticut (Address) Date 12/23/92 Sheet 2 of 2

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

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

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 (Name) Date 12/22/92
Waterford, Connecticut (Address) Sheet 1 of 2
2. Plant Millstone (Name) Unit Two
Waterford, Connecticut (Address)
3. Work Performed by Fluor Constructors (Name) Fluor Constructors Repair Organization P.O. No., Job No., etc.
Irvine, California (Address) APO M2-92-17134
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 [signature] Licensing Engineer 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 HSB I&I of Hartford, CT have inspected the Repair by Modification described in this Report
(Repair(s) or Replacement(s))
on 08 Jan, 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 [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 8½ 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 (Name) Waterford, Connecticut (Address) — Date 12/22/92 — Sheet 2 of 2

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

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

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 an 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 (Name) Waterford, Connecticut (Address) — Date 1/06/93 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. AWO M2-92-14235
4. Identification of System Steam Generator #1 - Instrument Nozzle Repair

5. (a) Applicable Construction Code ASME III 1983 Edition, S84 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] Lead Engineer 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 HSB CT of Hartford, CT have inspected the Repair [Repair(s) or Replacement(s)] described in this Report 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.

26 Jan 1993 [signature] ANI — CT 1137 NB 9324
Date 26 Jan 93 (Inspector) ANI — Commissions NB 5647 (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in Items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 1/06/93 — Sheet 2 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc.
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 (Name) Waterford, Connecticut (Address) — Date 12/03/92 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors Repair Organization P.O. No., Job No., etc. M2-92-07337, M2-92-09857
4. Identification of System Main Steam 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)
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 Replacement (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Senior Engineer Title January 26 (Date), 19 93

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 I&G of Hartford, CT have inspected the Replacement [Repair(s) or Replacement(s)] described in this Report on December 08, 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 12 FEB 93 11 FEB 93 Inspector [signature] YORK ANII Commissions CT 1137 NB 5442 (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 12/03/92 — Sheet 2 of 2

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

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

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.
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 (Name) Waterford, Connecticut (Address) — Date 1/08/93 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors Repair Organization P.O. No., Job No., etc. AWO M2-92-11340 / MANUAL ORDER 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 Replacement conforms to Section XI of the ASME Code.
(repair or replacement)

Signed [signature] Lead Engineer 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 HSB I.I.C. of Hartford, 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 / 11 FEB 93 [signature] Commissions CT1137 [illegible]
(Inspector) (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 1/08/93 — Sheet 2 of 2

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

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

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 M2-92-14057

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 (Name) Waterford, Connecticut (Address) — Date 12/15/92 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. AWO M2-92-11291 M2-92-14087
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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed _____ (Owner or Owner's Designee) _____ (Title) _____ (Date) , 19 93

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 I&I Co of Hartford, CT have inspected the REPLACEMENT (Repair(s) or Replacement(s)) described in this Report on NOVEMBER 23, 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 Inspector F. York ANI Commissions CT1137 (State or Province, National Board) 39

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 12/15/92 — Sheet 2 of 2

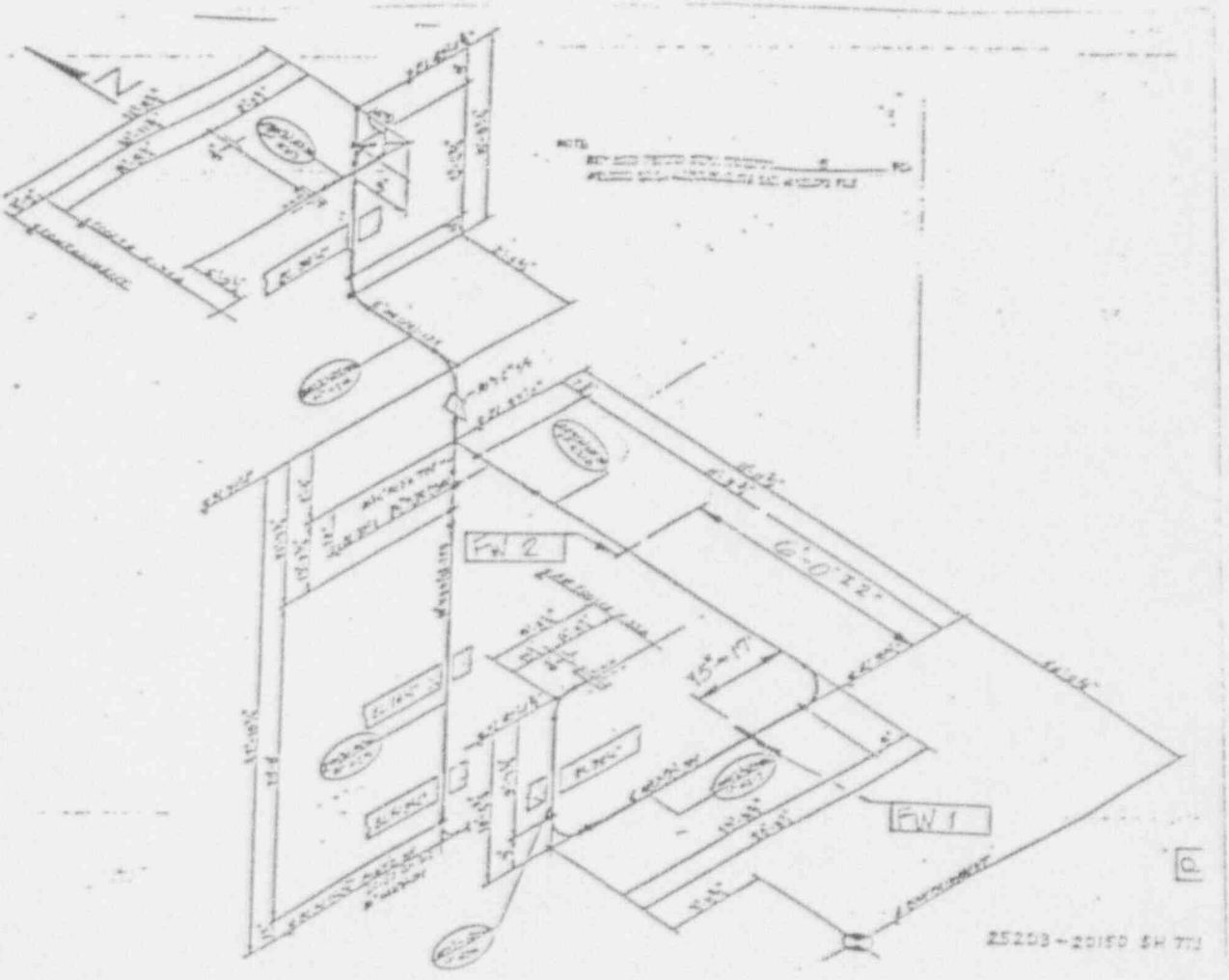
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two

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

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 (Name) Waterford, Connecticut (Address) — Date 12/23/92 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors Repair Organization P.O. No., Job No., etc. AWO M2-92-15207
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 Replacement (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] Lead Engineer 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 HSB I+I Co of Hartford, Ct have inspected the Repair/piping Replmt (Repair(s) or Replacement(s)) described in this Report on Jan 09, 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 / 11 FEB 93 E YORK ANII Commissions CT1137 N45012
(Inspector) ANII (State or Province, National Board)

39

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in Items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 12/23/92 — Sheet 2 of 2

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

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

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 (Name) Waterford, Connecticut (Address) — Date 12/15/92 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors Repair Organization P.O. No., Job No., etc. FWO-M2-92-10175
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 [signature] Senior Engineer 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 HSB I+I Co of Hartford, 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.

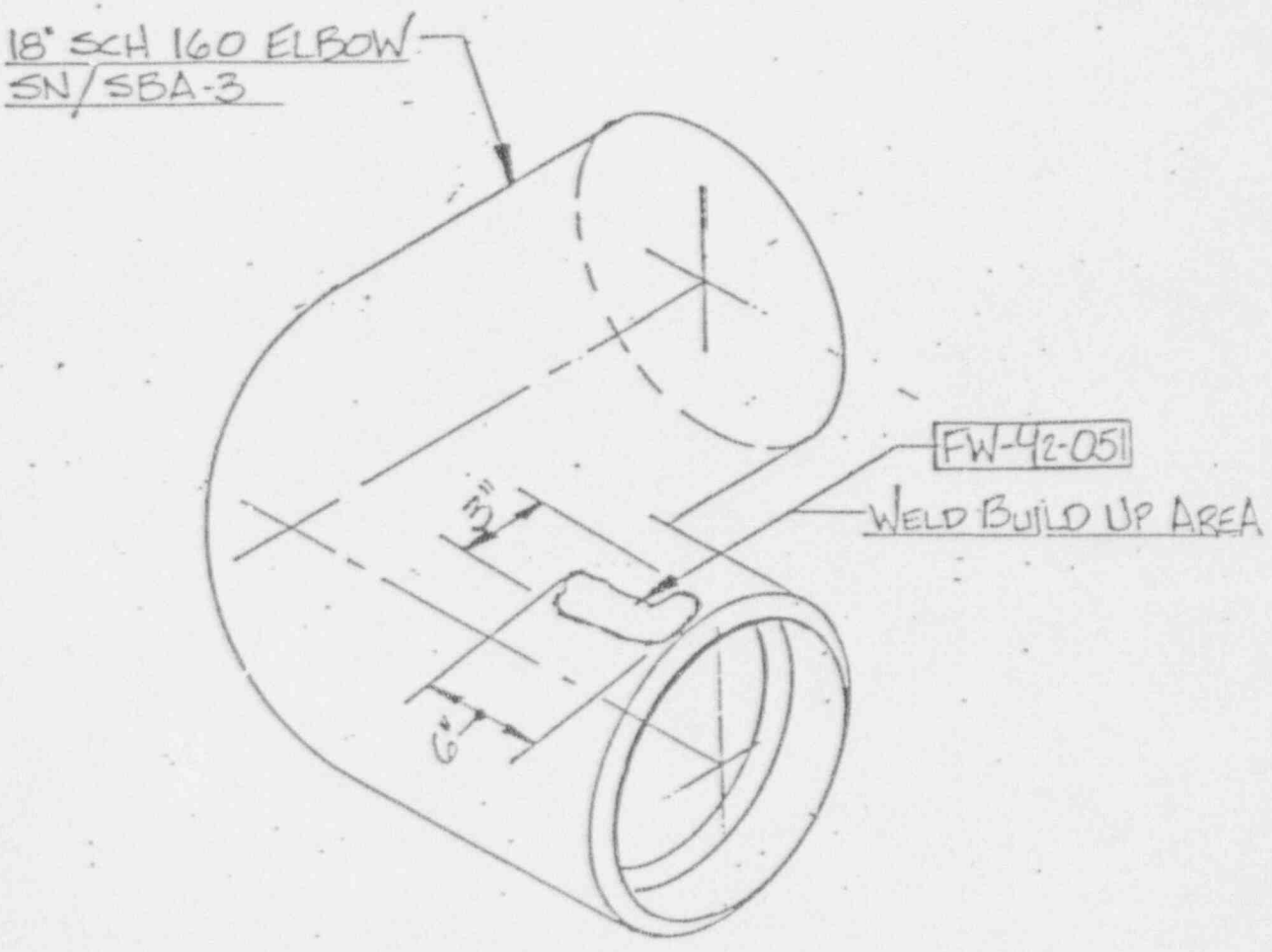
12FEB93 NEW YORK ANII CT 1137
Date 12 FEB 93 [signature] Commissions 13150-12
(Inspector) ANI (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in Items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 12/15/92; Sheet 2 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc.
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.



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 (Name) Waterford, Connecticut (Address) — Date 12/03/92 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc.
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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] Team Engineer 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 CT, employed by HSB I+I CO. 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.

1-26-93 — E/ort (ANII CT1137

Date 26 JAN 93 [signature] (Inspector) ANI Commissions NB 5682 (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 12/03/92 — Sheet 2 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors Repair Organization P.O. No., Job No., etc.
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 (Name) Waterford, Connecticut (Address) — Date 1/08/93 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. AWO M2-92-10820
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 (Repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Station Engineer (Title) January 26 (Date), 19 93

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-I G of Hartford CT have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report 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 26 Jan 93 [signature] (Inspector) Commissions CT1137 ANII, N45CKZ ANI (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in Items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 1/08/93; Sheet 2 of 2

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

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

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 (Name) Waterford, Connecticut (Address) — Date 12/03/92 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc.
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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [illegible] Lead Engineer 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 HSB I-I G of HARTFORD, CT have inspected the Replacement [Repair(s) or Replacement(s)] described in this Report on Dec 8, 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.

26 Jan 93 [illegible] CT 1187

Date 26 Jan 93 [illegible] Commissions [illegible]
(Inspector) (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 12/03/92 — Sheet 2 of 2

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

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

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 (Name) Waterford, Connecticut (Address) — Date 1/08/93 — Sheet 1 of 4
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. M2-92-10672 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] Lead 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 HSB&I Co of Hartford, CT have inspected the REPLACEMENT [Repair(s) or Replacement(s)] described in this Report on December 03, 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 — [signature] (Inspector) — 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 8½ 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 (Name) Waterford, Connecticut (Address) — Date 1/08/93 — Sheet 2 of 4

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

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

4. Identification of System Steam Generator #2 - 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 values 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 Valves	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)
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-

1. Owner Northeast Nuclear Energy Company (Name) Waterford, Connecticut (Address) — Date 1/08/93 — Sheet 3 of 4

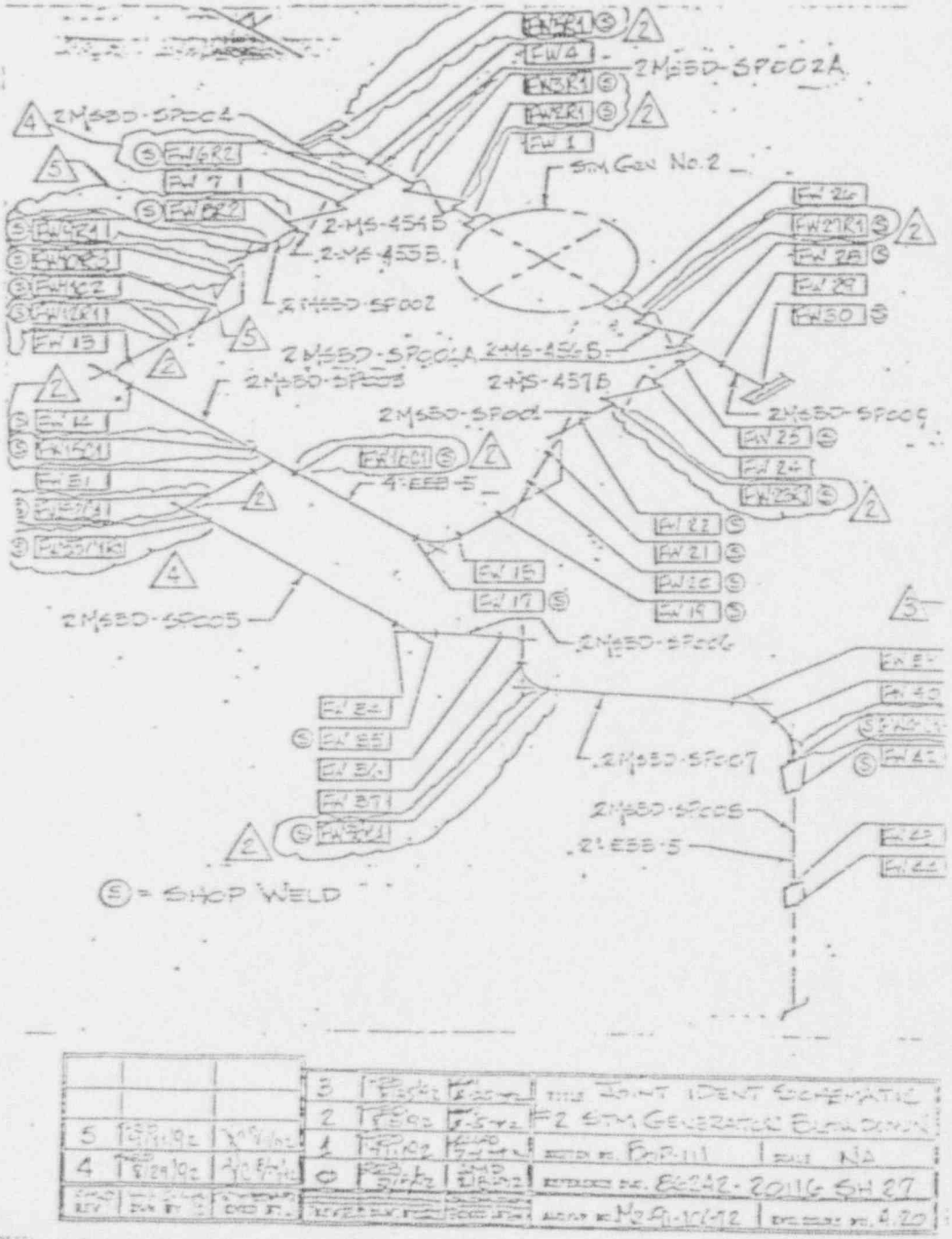
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two

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

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

FIGURE

Blowdown Piping



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 (Name) Date 1/08/93

Waterford, Connecticut (Address) Sheet 4 of 4

2. Plant Millstone (Name) Unit Two

Waterford, Connecticut (Address)

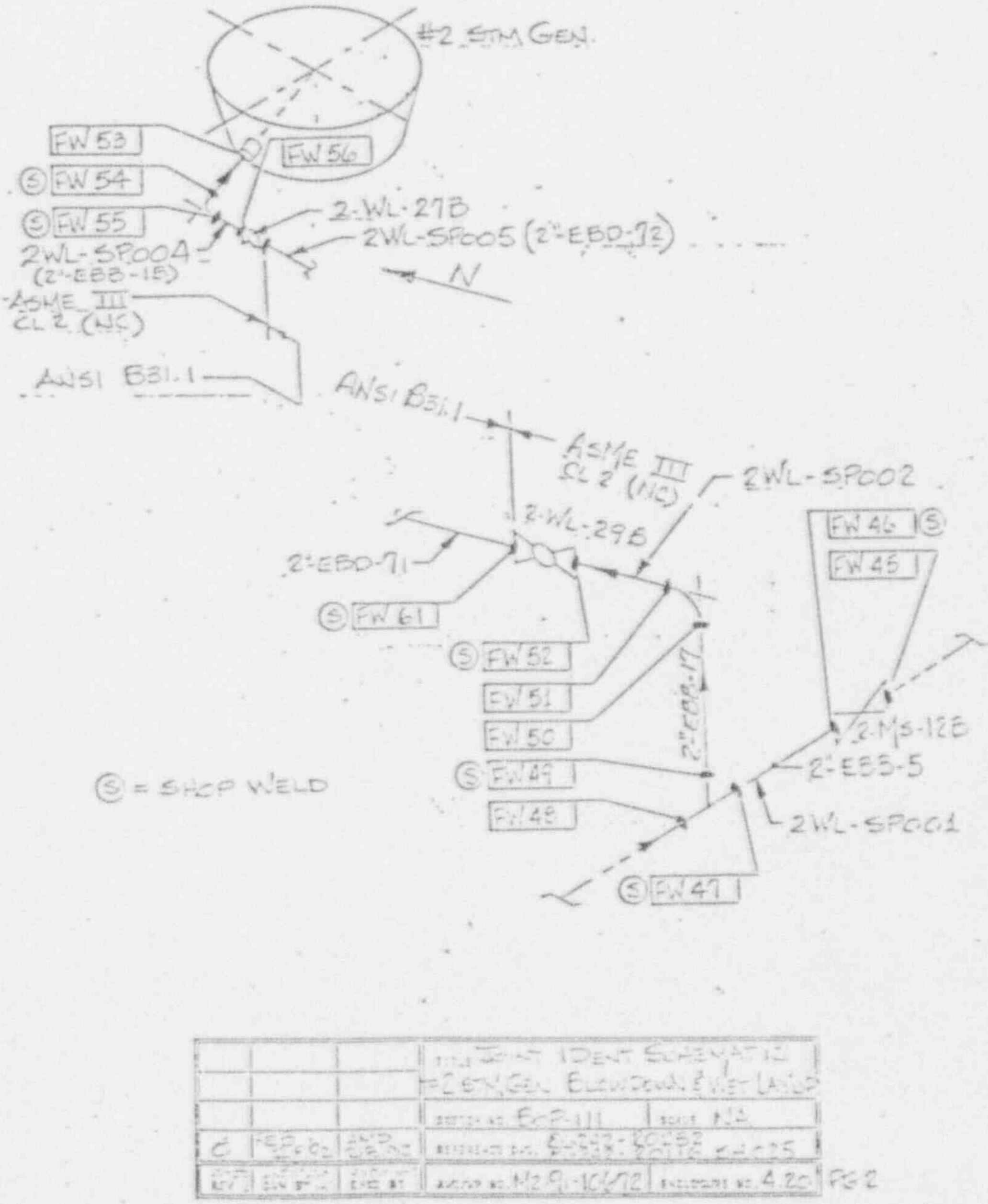
3. Work Performed by Fluor Constructors (Name) Fluor Constructors Repair Organization P.O. No., Job No., etc.

Irvine, California (Address)

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

FIGURE

Wet Layup Piping



FORM MPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. ____ of ____

1. Manufactured and certified by Anchor/Darling Valve Co., 701 First St., 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., 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 (edition) ---- (addenda date) 2 (class) ---- (Code Case no.)

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

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

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
E-T022-7-3	N/A	U6291	2	5
E-T022-7-4	N/A	U6292	4	7
E-T022-7-5	N/A	U6293	5	6
E-T022-7-6	N/A	U6294	6	0
E-T022-7-7	N/A	U6297	7	0
E-T022-7-8	N/A	U6298	8	3
E-T022-7-9	N/A	U6300	9	4

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ 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.

(12.93) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

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-039035-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 (N Certificate Holder) Signed Gary D. Larson (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 Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 11-7-91 thru 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 a loss of any kind arising from or connected with this inspection.

Date 4-7-92 Signed Charles Grundy (Authorized Inspector) Commissions Pennsylvania 2382 (Nat'l. Bd. (incl. endorsements) 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 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., 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 (edition) ---- (addenda date) 2 (class) ---- (Code Case no.)

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

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

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
E-T022-7-10	N/A	U6295	10	5

* Supplementary information in form of lists, sketches, or drawings may be used provided (1) size is 8½ 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 (N Certificate Holder) Signed Gary R. Lucas (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 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 to 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 [signature] (Chief Inspector) Commissions Pennsylvania 2392 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

Pg. ____ of ____

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, C 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 (edition) --- (addenda date) 2 (class) --- (Code Case no.)

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

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

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
E-T022-5-1	N/A	3639	N/A	Heat 1737
E-T022-5-2	N/A	3640	N/A	Heat 1737
E-T022-5-3	N/A	3644	N/A	Heat 1737
E-T022-5-4	N/A	3651	N/A	Heat 1737
E-T022-5-5	N/A	3646	N/A	Heat 1737
E-T022-5-6	N/A	3647	N/A	Heat 1737
E-T022-5-7	N/A	3648	N/A	Heat 1737
E-T022-5-8	N/A	3641	N/A	Heat 1737

*Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ 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.

FORM NPV-1 (Back)

8. 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 (N Certificate Holder) Signed Gary D. Larson (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 Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 2-90-90 thru 2-1-92, 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 2-1092 Signed Charles Young (Authorized Inspector) Commissions Pennsylvania 2392 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

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, C 06385
(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) --- (addenda date) 2 (class) --- (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 AMS-5387 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
E-A503-5-29	N/A	1743	2102	Heat 9563
E-A503-5-30	N/A	1747	1573	Heat 9563

*Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ 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.

FORM NPV-1 (back)

8. Remarks 2"-1700#-DD for E-T022-6

9. Design conditions 3425 (pressure) psi 600 (temperature) °F or valve pressure class 1700 (1)

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 (N Certificate Holder) Signed Gary R. Larson (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 Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 1-29-92 to 2-6, 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 (Authorized Inspector) Commissions Pennsylvania 2392 (Nat'l. 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 (Name) Waterford, Connecticut (Address) — Date 1/08/93 — Sheet 1 of 4
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors Repair Organization P.O. No., Job No., etc. M2-92-10672 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] [signature] Engr 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 HSB-I G of Hartford, CT have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on December 02, 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 / 11 FEB 93 [signature] (Inspector) Commissions CT 1137 AN III (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 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 (Name) Date 1/08/93
Waterford, Connecticut (Address) Sheet 2 of 4
2. Plant Millstone (Name) Unit Two
Waterford, Connecticut (Address)
3. Work Performed by Fluor Constructors (Name) Fluor Constructors Repair Organization P.O. No., Job No., etc.
Irvine, California (Address) M2-92-10672
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 values 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 Valves	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)
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 Northeast Nuclear Energy Company (Name)
Waterford, Connecticut (Address)

Date 1/08/93

Sheet 3 of 4

Unit Two

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

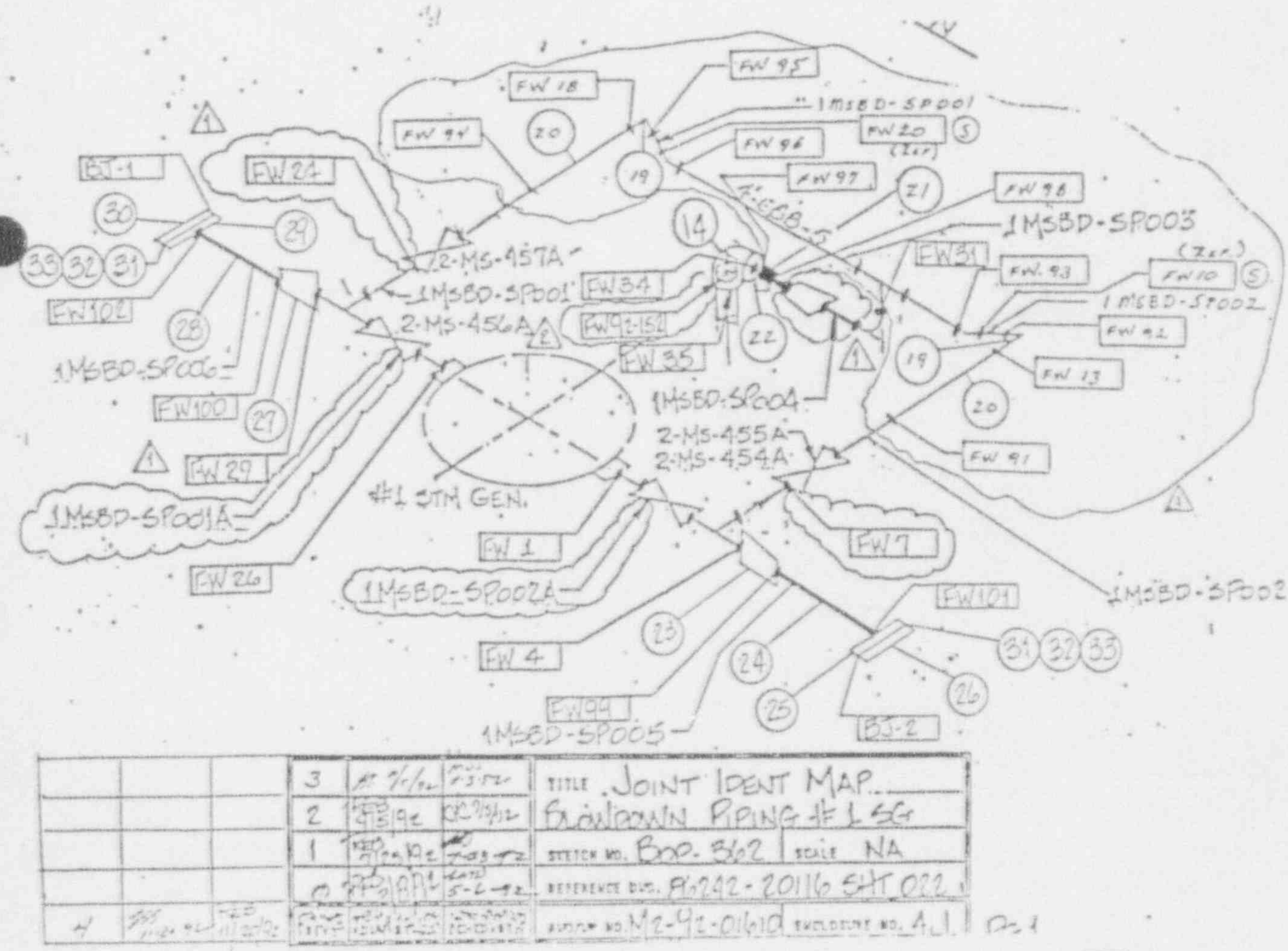
3. Work Performed by Fluor Constructors (Name)
Irvine, California (Address)

Fluor Constructors
Repair Organization P.O. No., Job No., etc.

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

FIGURE

Blowdown Piping

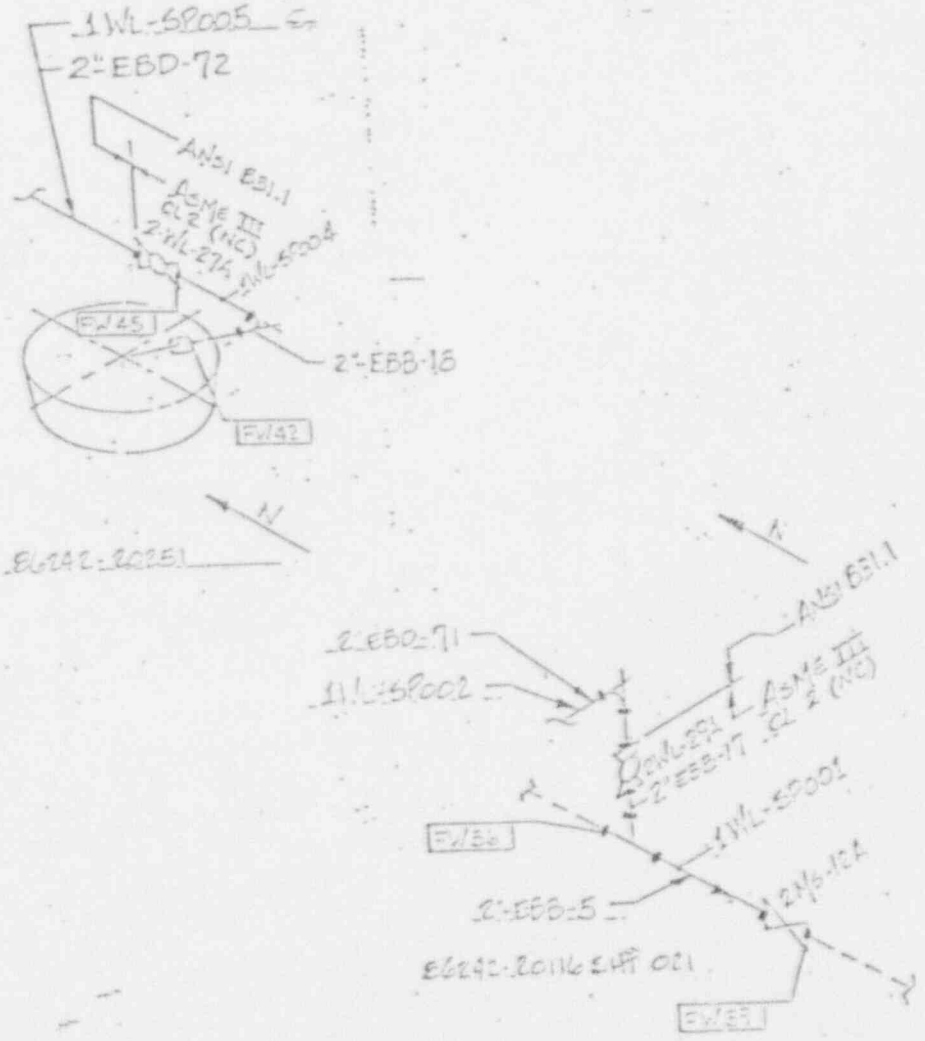


FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

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

FIGURE

Wet Layup Piping



			TITLE: JOINT IDENT MAP. WET LAY UP PIPING
			SKETCH NO. EXP-362 | SCALE: NA
C	[illegible]	5-2-94	REFERENCE DWG. E6242-20251, E6242-20116 SHT 021
REV	DWN BY	CHKD BY	ASSOC WO NO. M191-01610 | ENCLOSURE NO. 4.1

FG 2

A 25 rev 15 CRP586

FORM MPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

Pg. ____ of ____

1. Manufactured and certified by Anchor/Darling Valve Co., 701 First St., 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., 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 (edition) ---- (addenda date) 2 (class) ---- (Code Case no.)

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

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

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
E-T022-7-3	N/A	U6291	2	5
E-T022-7-4	N/A	U6292	4	7
E-T022-7-5	N/A	U6293	5	0
E-T022-7-6	N/A	U6294	6	0
E-T022-7-7	N/A	U6297	7	0
E-T022-7-8	N/A	U6298	8	3
E-T022-7-9	N/A	U6300	9	4

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ 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.

FORM NPV-1 (back)

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 4/15/92

Date 4-3-92 Name Anchor/Darling Valve Company (N Certificate Holder) Signed Gary D. Larson (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 Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 11-7-91 thru 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 a loss of any kind arising from or connected with this inspection.

Date 4-7-92 Signed Charles Grundy (Authorized Inspector) Commissions Pennsylvania 2382 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

Chief Insp.

(1) For manually operated valves only.

FORM N-1 CERTIFICATE HOLDER'S DATA REPORT

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

Pg. ____ of ____

1. Manufactured and certified by Anchor/Darling Valve Co., 701 First St., 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., 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 (edition) ---- (addenda date) 2 (class) ---- (Code Case no.)

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

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

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
E-T022-7-10	N/A	U6295	10	5

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ 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 (N Certificate Holder) Signed Gary D. Larson (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 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 to 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 Young (Authorized Inspector) Commissions Pennsylvania 2392 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. ____ of ____

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 (edition) --- (addenda date) 2 (class) --- (Code Case no.)

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

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

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
E-T022-5-1	N/A	3639	N/A	Heat 1737
E-T022-5-2	N/A	3640	N/A	Heat 1737
E-T022-5-3	N/A	3644	N/A	Heat 1737
E-T022-5-4	N/A	3651	N/A	Heat 1737
E-T022-5-5	N/A	3646	N/A	Heat 1737
E-T022-5-6	N/A	3647	N/A	Heat 1737
E-T022-5-7	N/A	3648	N/A	Heat 1737
E-T022-5-8	N/A	3641	N/A	Heat 1737

* Supplementary information in form of lists, sketches, or drawings may be used provided (1) size is 8½ 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 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 (N Certificate Holder) Signed Gary D. Larson (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 Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 2-90-90 to 2-15, 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 2-12-92 Signed Charles Young (Authorized Inspector) Commissions Pennsylvania 2392 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. ____ of ____

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 DD Drawing W9123592 Rev. A CRN ---

5. ASME Code, Section III, Division 1: 1986 (edition) --- (addenda date) 2 (class) --- (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 AMS-5387 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
E-A503-5-29	N/A	1743	2102	Heat 9563
E-A503-5-30	N/A	1747	1573	Heat 9563

*Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ 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 2"-1700#-DD for E-T022-6

9. Design conditions 3425 (pressure) psi 600 (temperature) °F or valve pressure class 1700 (1)

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 (N Certificate Holder) Signed Gary A. Larson (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 Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 1-29-92 thru 2-6, 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 (Authorized Inspector) Commissions Pennsylvania 2392 (Nat'l. 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 (Name) Waterford, Connecticut (Address) — Date 12/01/92; Sheet 1 of 3
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc.
4. Identification of System Steam Generator #2 - Main Steam

M2-92-01769 SGRP20 #2
M2-92-00593 SGRP20
M2-92-07314 SGRP20

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 7-8	1974	Partial Replaced	No
	Connex	42171				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 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 Replacement (repair or replacement) conforms to Section XI of the ASME Code.

Signed (Owner or Owner's Designee) Title Lead Engr Date January 26, 19 93

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 I&I Co of Hartford, Ct have inspected the Replacements (Repair(s) or Replacement(s)) described in this Report on Dec 8-9, 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.

19 FEB 93 YORK PA II C4137
Date 11 FEB 93 (Inspector) Commissions NB 5012 (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 12/01/92 — Sheet 2 of 3
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc.
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.

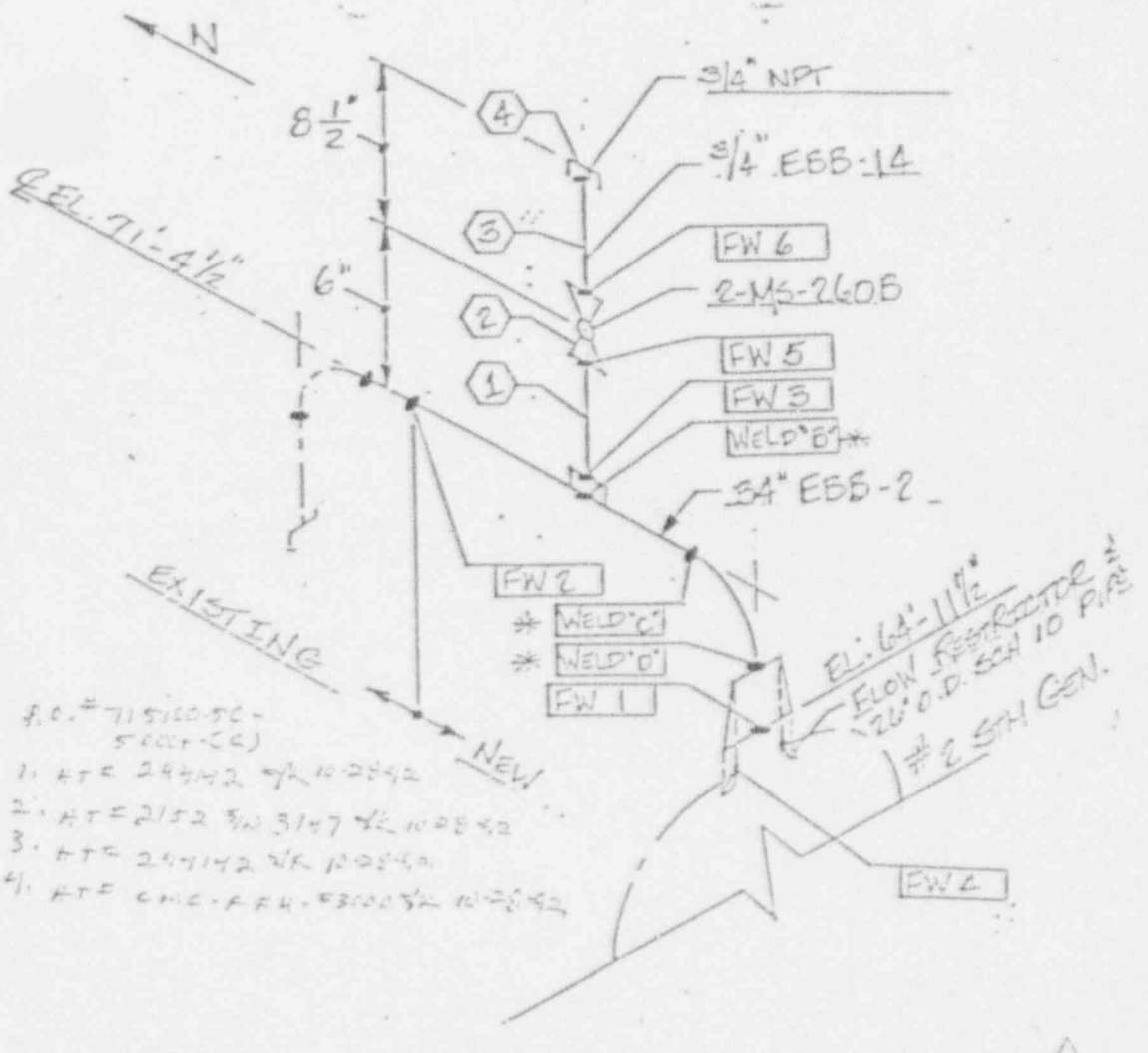
7. Description of Work: Steam generator replacement necessitated the removal and replacement of main steam piping from steam generator safe end to approximately second elbow from generator (see attached sketches). The original spool pieces were shop fabricated to ANSI B31.7 by Dravo. The original field 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 Northeast Nuclear Energy Company (Name) Waterford, Connecticut (Address) — Date 12/01/92 — Sheet 3 of 3 — Unit Two
2. Plant Millstone (Name) Waterford, Connecticut (Address)
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc.
4. Identification of System Steam Generator #2 - Main Steam

FIGURE



△1 3/4" EB "B" "C" & "D" DONE BY CONTEX SEE SKETCH # E-42117-1

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

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 (Cert. Holder's serial no.) N/A (CRN) E4217-1 Rev. 2 (drawing no.) N/A (Nat'l. Bd. no.) 1992 (year built)

5. ASME Code, Section III, Division 1: 1983 (edition) Summer 1984 (addenda date) 2 (class) N/A (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: 715100-50-5006KO #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. (NPT Certificate Holder) Signed Mark A. Hall (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. Lovell (Authorized Inspector) Commissions Ohio (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 8½ 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.

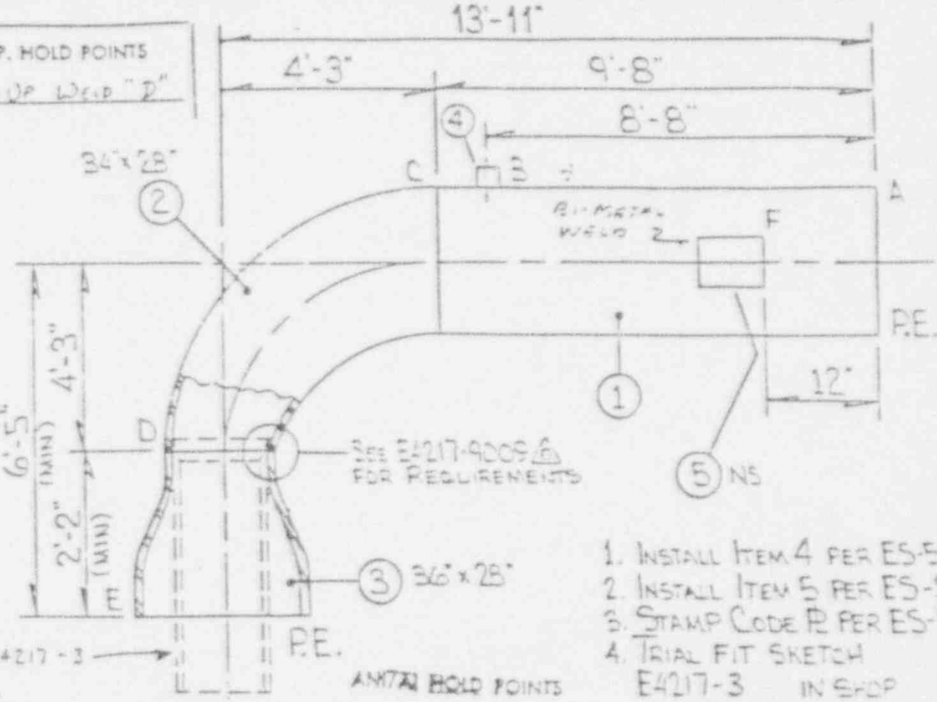
Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l. Bd. (incl. endorsements) and ... (or prov. and no.))

Connex Pipe Systems, Inc. A member of the Wheeler Group

SKETCH NUMBER E-4217-1 (Rev. 2)

CUSTOMER Fluor / Millstone DWG REF M-SKA
SYSTEM 1111 Main Steam SHOP CODE E7
ISO NO. —— TOTAL WT. 6700 SPEC CLASS NU 50-5006/2
AREA —— PC MK NO 715100-50-5006KQ # 2.11
ASME SECT III CL. 2 SERIAL NUMBER 42171 DESIGN COND P 1000 PSIG, T 600 °F

INSP. HOLD POINTS
○ Fit-Up Weld "D"



1. Install Item 4 per ES-56
2. Install Item 5 per ES-9
3. Stamp Code P per ES-59
4. Trial Fit Sketch E4217-3 in shop prior to shipment
5. Grind welds per E4217-9010

6. Upon receipt of item 2, Connex shop to RT & MP fitting per SP-1 (8.1.1) & machine ends as required.

ANI HOLD POINTS
Fit-Up Weld "D"
Preheat/Completed Weld "D"

FAB. PROC. NO SP-1 TYPICAL
SHOP BEV 9001 TYPE
FIELD BEV 9008 TYPE

☐ BACKING RINGS/INSERTS
☐ PWHT
☐ SPEC'L CLEAN LEV

☐ SAND BLAST I.D/O.D
☑ GRIT BLAST I.D.
☑ NSV INSP PREP
☑ SHIPPING PREP
☐ FERRITE MEAS

☐ STD PRIME TYPE ☐ DECLAQUER
☐ SPEC'L PAINT TYPE
☐ BEND HOT/COLD
☐ VERIFY BEND THICK
☐ MIN WALL MEAS

NDE	PROCEDURE	REQUIRED WELDS
☑ MP	ASME III MP	B, (heel of elbow per SP-1 (8.1.1.a))
☑ RT	ASME III RT	C, D (ends of elbow per SP-1 (8.1.1.a))
☐		
☑ VISUAL	ES-VE-1	BCDF

WELD FILLER METAL REQ'D
☑ YELLOW ACTUAL RED ACTUAL WITH ☐ CHARPY @ ___ °F ☐ SPECIAL SEE WELD ENGINEER

QUAN	DESCRIPTION	SPEC	B/M	HT NO/CODE SN			PO REF
9'-8"	(1) 34" (.577" MW) SMLS DS Pipe	SA106C	15w1	F1502	1	7	
1	(2) 34"x28" (.977" MW) Red W/Ell	SA234WPC	Ew1	24065	1	6	
1	(3) 36"x28" (1.007" MW) Red per E4217-9009	↓	13w1	SEE	1	2	
1	(4) 3/4" on 34" 3000# S.O.L. (MSS SP 97)	SA105	16w5	[illegible]	–	8	
1	(5) Code Plate per ES-1 2.5"x5"	SA240TP304	Nw2	—	–	—	
	( )						
1	( ) 34" NEP		11w4				
1	( ) 36" NEP		11w2				

REV	DATE	DESCRIPTION OF REVISION	DR	CK'D
2	[illegible]	SP-1 & Rev. Stamp "P" to MP [illegible]	RP	[illegible]
1	[illegible]	Rev. Note 6, SP-1 & [illegible]	RP	[illegible]

DR. TGL 11-5-91 CK'D. RP 12-13-91

CONNEX

PIPE SYSTEMS

Connex Pipe Systems, Inc.
1115 Gilman Street
Marietta
Ohio 45750
Telephone 614 373 7541
Fax 614 373 8480
Twx 810 488 2808

SUMMARY PAGE - CMTR'S SKETCH E4217-1

ITEM #	HEAT #	SERIAL #	MTR SERIAL #	DESCRIPTION
1	P18502	1	7	34" (.977" MW) SMLS PIPE SA106C
2	L4065	1	6	34" X 28" (.977" MW) R/ELL SA234 WPC
3	SCC	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 (Name) Waterford, Connecticut (Address) — Date 12/01/92 — Sheet 1 of 3
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. AWO M2-92-01768/SGRP 19131 M2-92-00592/SGRP 19 M2-92-07314/SGRP 19120→5
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 [illegible] Senior Engineer 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 HSB I&I Co of Hartford 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 11 FEB 93 (19 FEB 93) Inspector R York ANII Commissions CT1137 (State or Province, National Board) N45662

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 12/01/92 — Sheet 2 of 3
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. M2-92-01763/SGRP 19+31 M2-92-00592/SGRP 19 M2-92-07314
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.

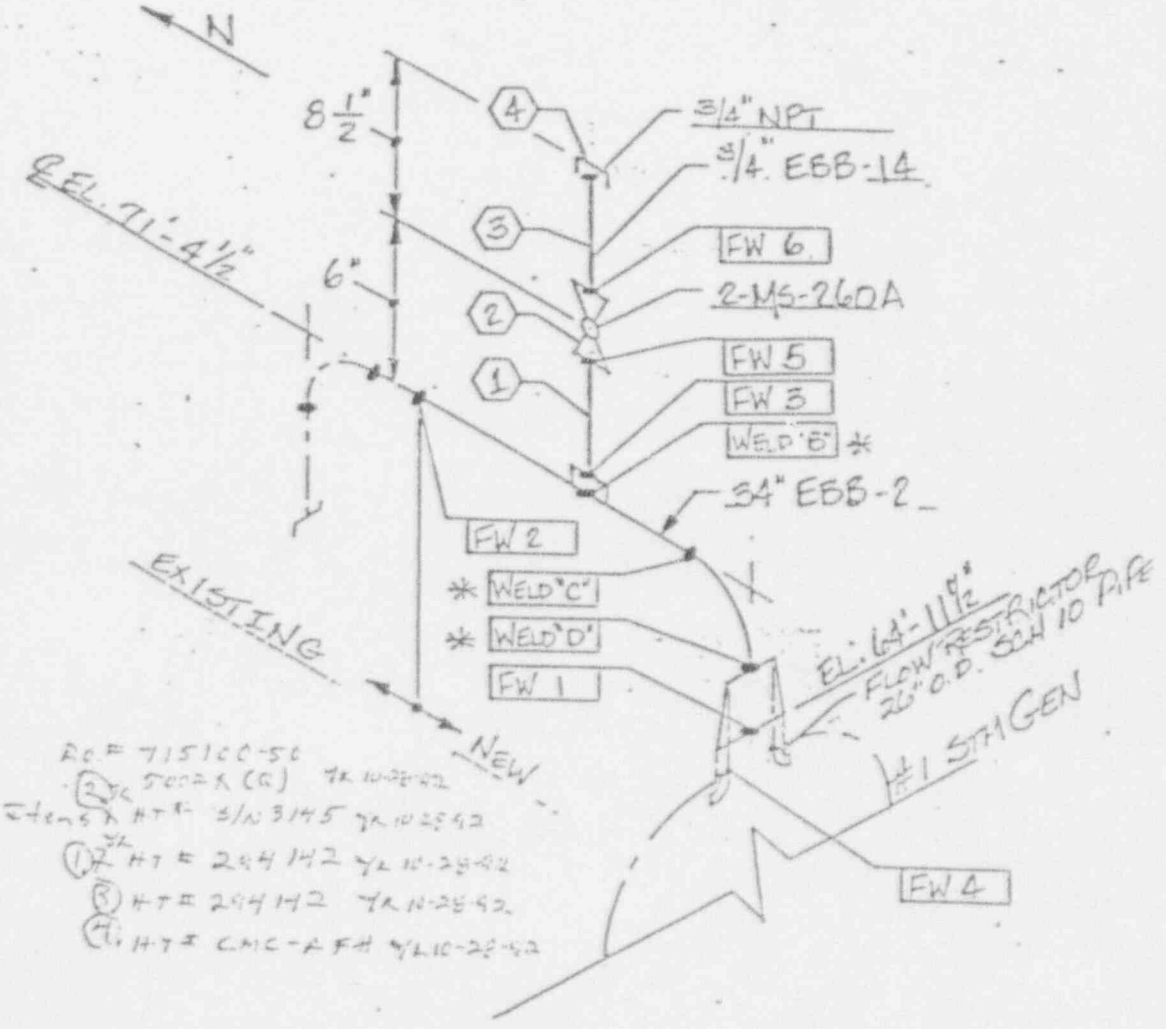
7. Description of Work: Steam generator replacement necessitated the removal and replacement of main steam piping from steam generator safe end to approximately second elbow from generator (see attached sketches). The original spool pieces were shop fabricated to ANSI B31.7 by Dravo. The original field 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 Northeast Nuclear Energy Company (Name) Waterford, Connecticut (Address) — Date 12/01/92; Sheet 3 of 3
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc.
4. Identification of System Steam Generator #1 - Main Steam — M2-92-01768, M2-92-00592, M2-92-07314

FIGURE



1 *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

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 (Cert. Holder's serial no.) N/A (CRN) E4217-2 Rev. 2 (drawing no.) N/A (Nat'l. Bd. no.) 1992 (year built)

5. ASME Code, Section III, Division 1: 1983 (edition) Summer 1984 (addenda date) 2 (class) N/A (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. (NPT Certificate Holder) Signed Mark A Zeb (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 Lowell (Authorized Inspector) Commissions Ohio (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 8½ 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.

** 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.

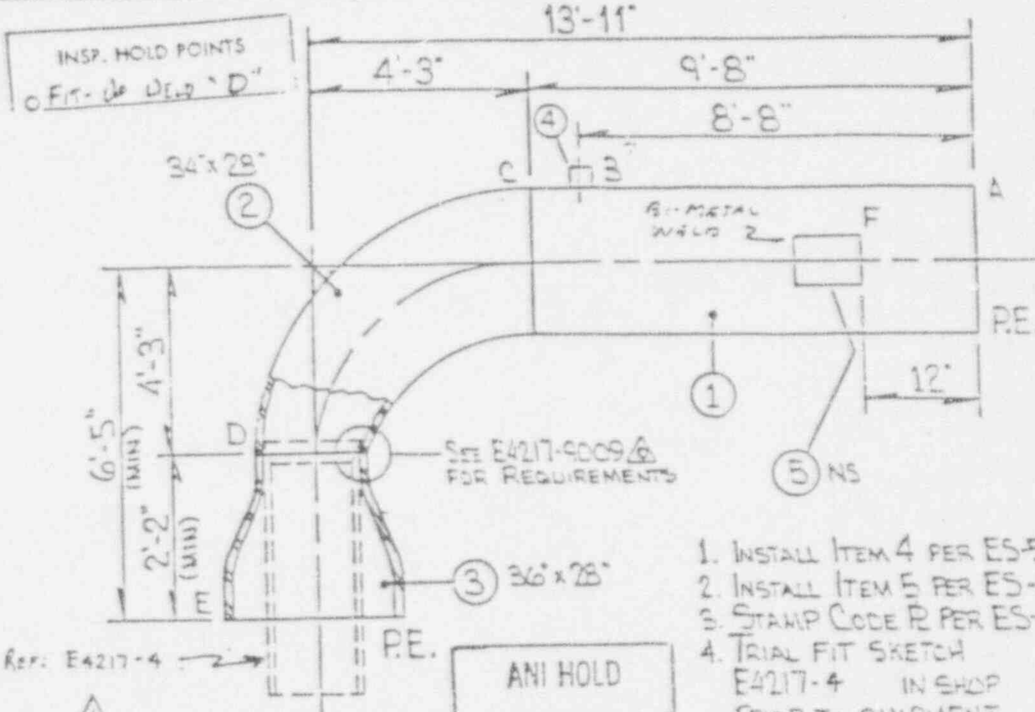
Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

CONNEX Connex Pipe Systems, Inc. A member of the Wesson Group

SKETCH NUMBER E-4217-2 (revision 2)

CUSTOMER	FLUOR / MILLSTONE	DWG. REF	M-SK2
SYSTEM	1111 MAIN STEAM	SHOP CODE	57
ISO NO.	———	TOTAL WT.	6700
SPEC CLASS	NU 50-5006/2		
AREA	———	PC MK NO.	715100-50-5206KQ # 2.11
ASME SECT. III CL.	2	SERIAL NUMBER	42172
DESIGN COND. P	1000 PSIG	T	600 °F

INSP. HOLD POINTS
○ FIT-UP WELD "D"



ANI HOLD
JOINTS: FIT-UP "D"

1. INSTALL ITEM 4 PER ES-56
2. INSTALL ITEM 5 PER ES-9
3. STAMP CODE P PER ES-59
4. TRIAL FIT SKETCH E4217-4 IN SHOP PRIOR TO SHIPMENT
5. GRIND WELDS PER E4217-9010

6. UPON RECEIPT OF ITEM 2 CONNEX SHOP TO RT & MP FITTING PER SP-1 (8.1.1)5 MACHINE ENDS AS REQUIRED

FAB. PROC. NO. SP1A TYPICAL	☐ BACKING RINGS/INSERTS	☐ SAND BLAST I.D./O.D.	☐ STD. PRIME TYPE DUDE/LACOLEP
SHOP BEV. 9001 TYPE	☐ PAINT	☑ GRIT BLAST I.D.	☐ SPEC'L PAINT TYPE
FIELD END 9002 TYPE	☐ SPEC'L CLEAN LEV	☑ DOMESTIC WEP PREP	☐ BEND HOT/COLD
		☑ SHIPPING PREP	☐ VERIFY BEND THICK
		☐ FERRITE MEAS.	☐ MIN. WALL MEAS.

N.D.E.	PROCEDURE	REQUIRED WELDS
☑ MP	ASME III MP	B (ends of elbow per SP-1 (8.1.1.5))
☑ RT	ASME III RT	C D (ends of elbow per SP-1 (8.1.1.5))
☐		
☑ VISUAL	ES-VE-1	B C D F

WELD FILLER METAL REQ'D — ☑ YELLOW ACTUAL — REQ ACTUAL WITH ☐ CHARPY @ ___ °F — SPECIAL SEE WELD ☐ ENGINEER — PC REF

QUAN.	DESCRIPTION	SPEC	BW	HT NO./CODE	SA	
5'-8"	1 34" (.977" MW) SMLS CS PIPE	SA106-C	15w1	P18502	2	7
1	2 34"x28" (.977" MW) RED W/ELL	SA234 WPC	Bw1	6406E	2	6
1	3 36"x28" (1.007" MW) CPED PER E4217-9000		Bw1	566	2	2
1	4 3/4" on 34" 3000# S-O-L (MSS-SP-97)	SA105	Hw5	377 TWR	—	8
1	5 CODE PLATE PER ES-1 2½"x5"	SA240TP304	Mw21	—	—	—
1	34" WEP		1164			
1	36" WEP		1162			

REV.	DATE	DESCRIPTION OF REVISION	BY	CHK
2		SP-1 & ADD RT OF EL TO MP		
1		ADD NOTE 6, SP1A & ADD SP-97		
DR.	6-3-91	CHK. 12-12-91		

CONNEX

PIPE SYSTEMS

Connex Pipe Systems, Inc.
1115 Colman Street
Marietta
Ohio 45750
Telephone 614 373 7541
Fax 614 373 5480
Twx 810 486 2808

SUMMARY PAGE - CMTR'S SKETCH E4217-2

ITEM #	HEAT #	SERIAL #	MTR SERIAL #	DESCRIPTION
1	P18502	2	7	34" (.977" MW) SMLS PIPE SA106C
2	L4065	2	6	34" X 28" (.977" MW) R/ELL SA234 WPC
3	SCC	2	3	36" X 28" (1.007" MW) C/RED SA234 WPC
4	337INR	-	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 (Name) Waterford, Connecticut (Address) — Date 12/03/92 — Sheet 1 of 3
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. AWO M2-92-00637 M2-92-01771
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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] Senior Engineer (Owner or Owner's Designee) Title — January 26, 1993 (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 Connecticut, employed by HSB I&C of Hartford, Ct have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on Dec 87thru9, 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.

11 FEB 1993 E. York ANII CT1137
Date 11 FEB 93 [signature] Commissions [illegible]
(Inspector) ANII (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in Items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 12/03/92 — Sheet 2 of 3

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

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

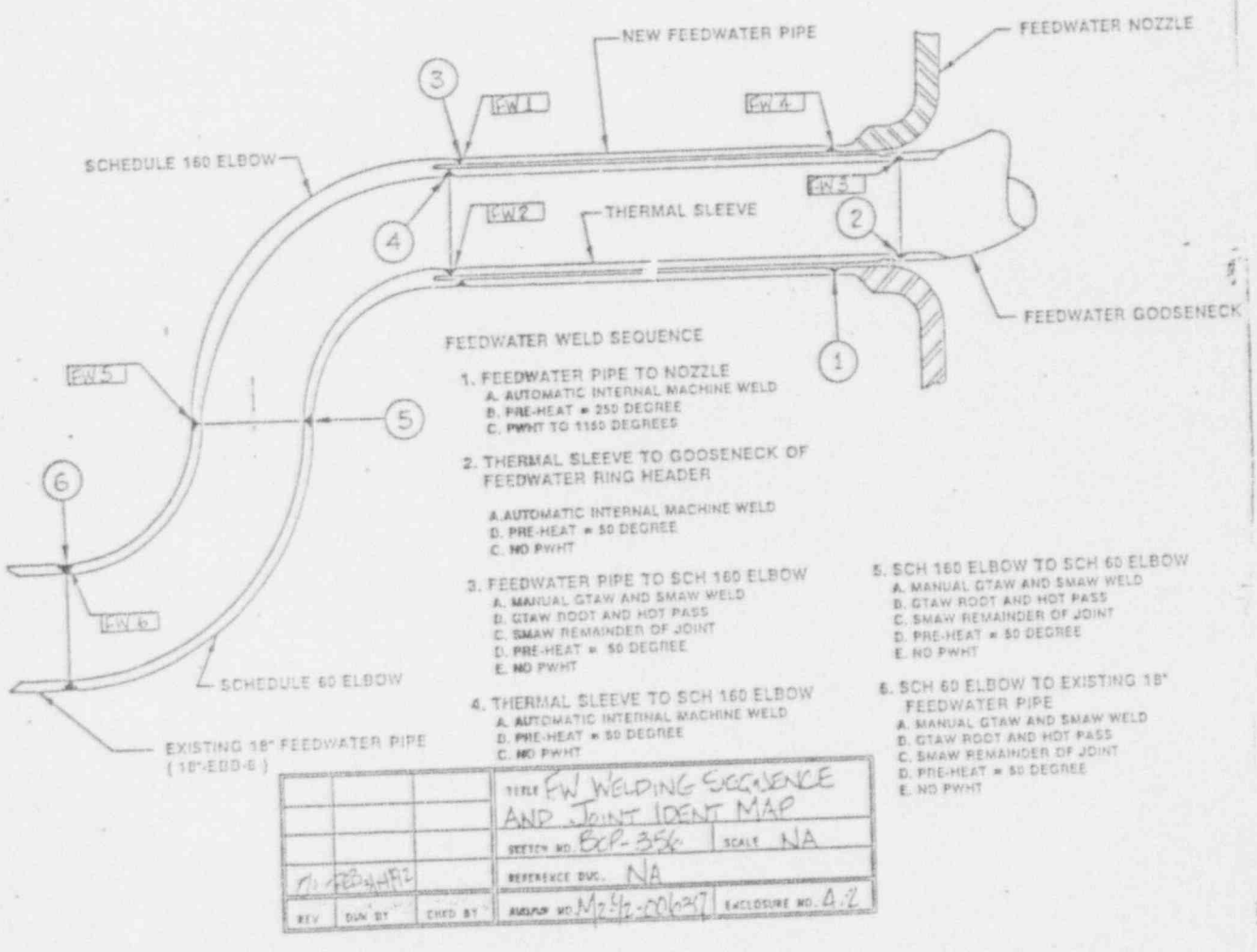
6. Bechtel field installation was stamped in accordance with ASME Section III, 1971. Dravo spool pieces were fabricated in accordance with ANSI B31.7 and provided with NPP-1 form. Replacement spool pieces for this replacement were procured in accordance with ASME Section III, 1983 Edition including Summer, 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 Northeast Nuclear Energy Company (Name) Waterford, Connecticut (Address) — Date 12/03/92; Sheet 3 of 3
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. M2-92-00637 M2-92-01771
4. Identification of System Steam Generator No. 2 - Feedwater

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

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

5. ASME Code, Section III, Division 1: 1983 (edition) Summer 1984 (addenda date) 2 (class) N/A (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: 715100-50-5006KO #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. (NPT Certificate Holder) Signed [signature] (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 [signature] (Authorized Inspector) Commissions OHIO (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 8½ 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.

** 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.

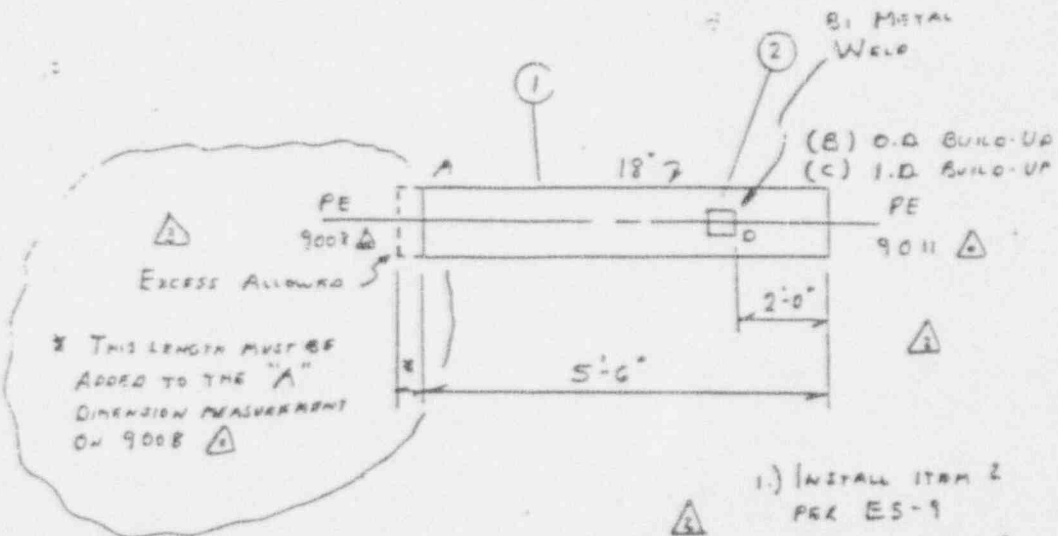
Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

NPP-1 SHEET 2 OF 2

CONNEX Crossroads Pipe Systems, Inc. A member of the Wisconsin Group

CUSTOMER: FLUOR / MILLSTONE	DWG. REF: —
SYSTEM: 1111 FEEDWATER	SHOP CODE: 174
ISO NO.: —	TOTAL WT.: 760 lbs
AREA: —	SPEC CLASS: NU 50-5006/2
ASME SECT. III CL.: 2	PC MK NO.: 715100-50-5006KQ # 2.10
SERIAL NUMBER: 42176	DESIGN COND: P 1100 PSIG; T 629 °F

SKETCH NUMBER: E-4217-6 (3)



1.) INSTALL ITEM 2 PER ES-9

2.) STAMP COND PLATE PER ES-59

FAB. PROC. NO.: SP-1 (TYPICAL)	☐ BACKING RINGS/INSERTS
SHOP BEV: — TYPE: —	☐ PAINT
FIELD BEV: AS NOTED TYPE: —	☐ SPEC'L CLEAN LEV ______

N.D.E.	PROCEDURE	REQUIRED WELDS
☑ MPI	ASME III - MP	B & C (in accordance with 5A693)
☑ RT	ASME III - RT	B & C (in accordance with 5A693)
☐ UT		
☑ VISUAL	ES-VR-1	FINAL SQUARE B,C,D

☐ SAND BLAST I.D./O.D.	☐ STD. PRIME TYPE OXIDE/LACQUER
☑ GRIT BLAST I.D.	☐ SPC'L PAINT TYPE ______
☐ INSV. INSP PREP	☐ BEND HOT/COLD
☑ SHIPPING PREP.	☐ VERIFY BEND THICK.
☐ FERRITE MEAS.	☐ MIN. WALL MEAS.

WELD FILLER METAL REQ'D: ☐ YELLOW ACTUAL; RED ACTUAL WITH ☑ CHARPY @ 10 °F; SPECIAL SEE WELD ☐ ENGINEER

QUAN.	ITEM	DESCRIPTION	SPEC.	SA	HT/ROLE/CODE SA			PO/REF
5'-6"	1	18" SCH 60 SMLS PIPE	SA106B	7	L21137	1	4	
1	2	COND PLATE PER ES-1 2¼" x 5"	SA240 TP 304	2	—	—	—	
2		18" MBP						

REV	DATE	DESCRIPTION OF REVISION	DR.	CK'D
3	4-8-92	FOR TRANSMITTAL PACKAGE 4-8-92	RP	TEL
2	3-26-92	FOR FAI 3-25-92 C/L	RP	TEL
1	1-13-92	REV. SP-1	RP	TEL

DR. RP 12-9-91 | CK'D TEL 12-13-91 | REV. | DATE | DESCRIPTION OF REVISION | DR. | CK'D

CONNEX

PIPE SYSTEMS

Connex Pipe Systems, Inc
1115 Gilman Street
Marietta
Ohio 45750
Telephone 614.373.7541
Fax 614.373.8480
Twx 810.466.2806

SUMMARY PAGE - CMTR'S SKETCH E4217-6

ITEM #	HEAT #	SERIAL #	MTR SERIAL #	DESCRIPTION
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 (Name) Waterford, Connecticut (Address) — Date 12/03/92 — Sheet 1 of 3
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. AWO M2-92-00636, 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Title Lead Engineer Date January 26, 19 92

SGRP 15+17

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 NH / CT, employed by HSB CT of HARTFORD, CT have inspected the REPLACEMENT (Repair(s) or Replacement(s)) described in this Report 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 26, 1993 — [signature] (Inspector) ANII — Commissions CT1137, NH 5062 (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in Items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 12/03/92 — Sheet 2 of 3

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

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

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.

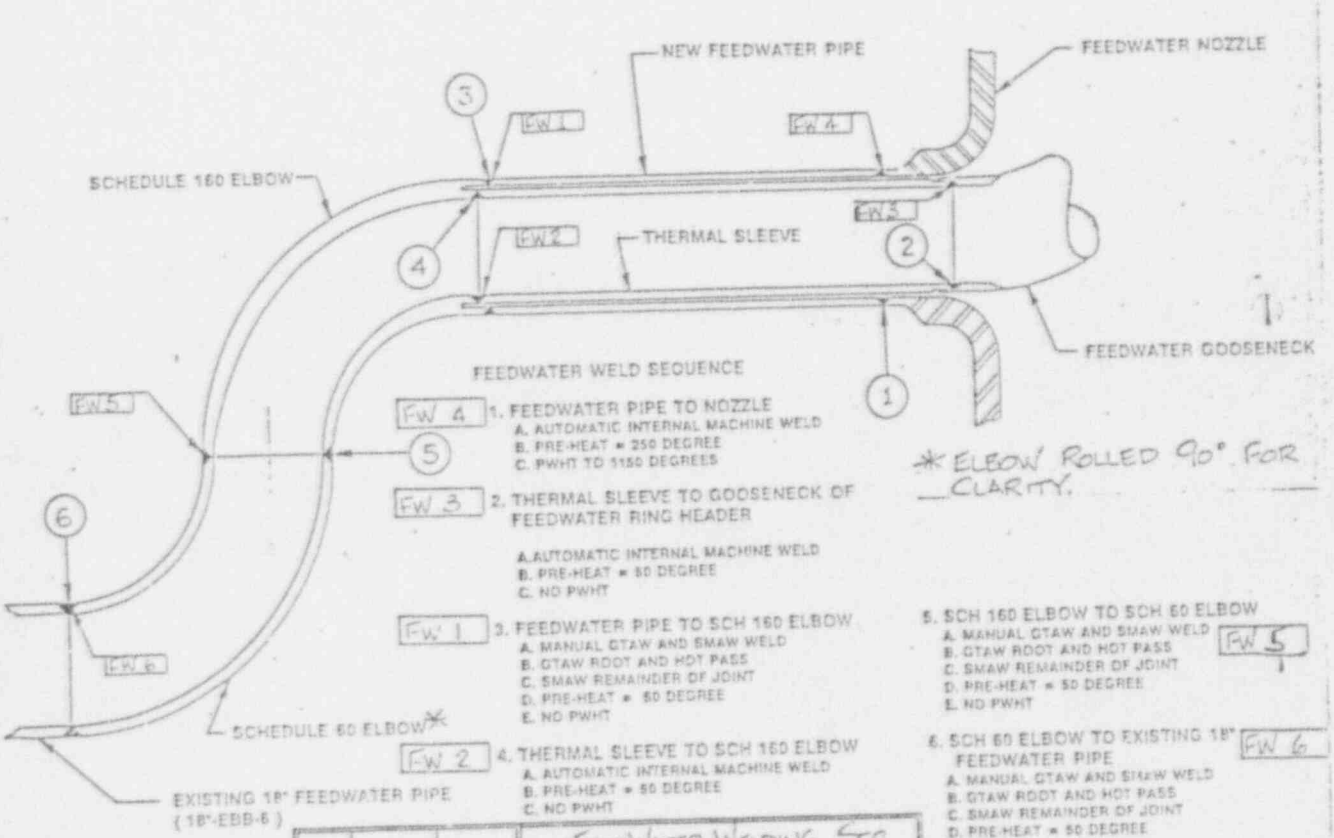
6. Bechtel field installation was stamped in accordance with ASME Section III, 1971. Dravo spool pieces were fabricated in accordance with ANSI B31.7 and provided with NPP-1 form. Replacement spool pieces for this replacement were procured in accordance with ASME Section III, 1983 Edition including Summer, 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). Work performed per AWO M2-92-00636 and M2-92-01770 after 1/24/93

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

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

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 (Cert. Holder's serial no.) N/A (CRN) E4217-5 Rev. 3 (drawing no.) N/A (Nat'l. Bd. no.) 1992 (year built)

5. ASME Code, Section III, Division 1: 1983 (edition) Summer 1984 (addenda date) - 2 (class) N/A (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: 715100-50-5006KO #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 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. (NPT Certificate Holder) Signed Mark A Zumbo (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 Eberell (Authorized Inspector) Commissions OHIO (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 8½ 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.

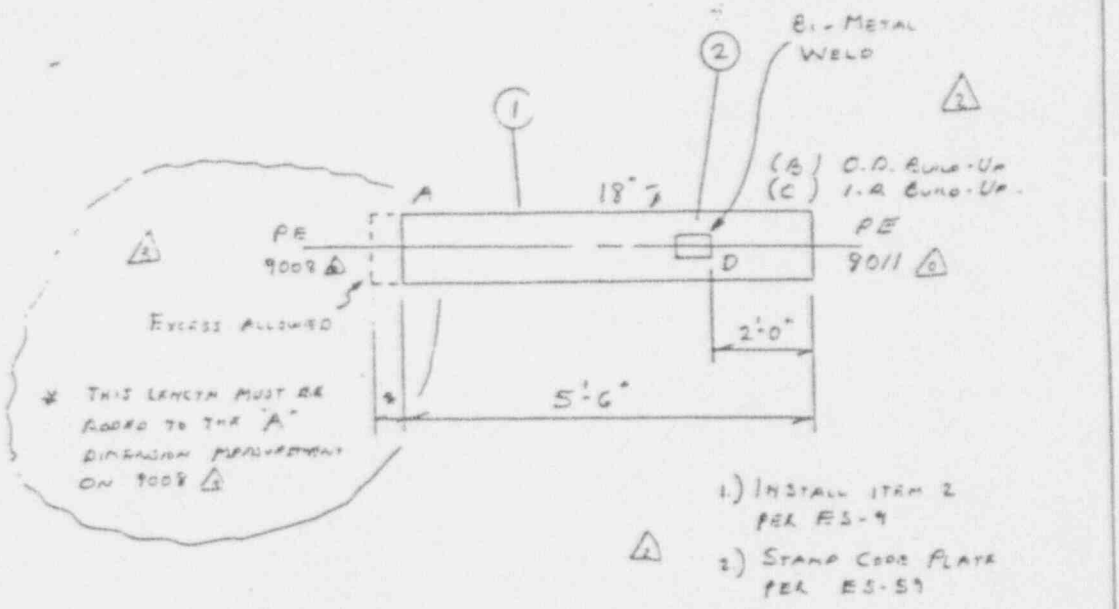
Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l. Bd. endorsement(s) and state or prov. and no.)

NPP-1 SHEET 2 OF 2

CONNEX Connell Pipe Systems, Inc. A member of the Williams Group

CUSTOMER FLUOR / MILLSTONE DWG REF —
SYSTEM 1 1 1 FEEDWATER SHOP CODE 174
ISO NO — TOTAL WT 760 LBS SPEC CLASS NU-50-5006/2
AREA — PC MK NO. 715102-50-5006KQ # 2.10
ASME SECT. III CL 2 — N PT SERIAL NUMBER 42175 DESIGN COND: P 1100 PSIG T 600 °F

SKETCH NUMBER E-4217-5 (3)



FAB. PROC. NO SP-1 (A) TYPICAL ☐BACKING RINGS/INSERTS
SHOP BEV — (A) TYPE — ☐PWHT BY:
FIELD BEV A1 NOTED (A) TYPE — ☐SPEC'L CLEAN LEV _____ BY:

NDE	PROCEDURE	REQUIRED WELDS
☑MP (A)	ASME III-MP (A)	B&C IN ACCORDANCE WITH SA-53, 16
☑RT	ASME III-RT (A)	B&C IN ACCORDANCE WITH SA-53, 16
☐UT		
☑VISUAL	ES-VE-1 (A)	FINAL SQUARE, B.C.D

☐SAND BLAST I.D./O.D. BY: ☐STD PRIME TYPE OXIDE/LACQUER
☑GRIT BLAST I.D. BY: ☐SPEC'L PAINT TYPE _____ BY:
☐INSV. INSP. PREP. BY: ☐BEND HOT/COLD BY:
☑SHIPPING PREP. BY: ☐VERIFY BEND THICK BY:
☐FERRITE MEAS. BY: ☐MIN. WALL MEAS BY:

WELD FILLER METAL REQ'D
(1) ☐YELLOW ACTUAL (A) RED ACTUAL WITH ☒CHARPY @ 10 °F
SPECIAL SEE WELD ☐ENGINEER

QUAN.		DESCRIPTION	SPEC	B&W HT NOS./CODE S/N			PC REF
+5'-6"	(1)	18" SCH 60 SMLS PIPE	SA106B	7L-1	L21137	1	4
(A) 1	(2)	CODE PLATE PER ES-1 2"x5"	EATON TP 304	13-2	—	—	—
2		18" MEP		[illegible]			

REV	DATE	DESCRIPTION OF REVISION	DR	CKD
3	12-9-91	PER TELECON W/ [illegible] 12-16-91	RP	TEL
2	12/29/91	PER FAX 12-26-91	RP	TEL
1	12/17/91	REV'D SP-1 (A)	RP	TEL

REV	DATE	DESCRIPTION OF REVISION	DR	CKD
A	DR RP 12-9-91	CKD TEL 12-13-91		

CONNEX
PIPE SYSTEMS

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

ITEM #	HEAT #	SERIAL #	MTR SERIAL #	DESCRIPTION
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 (Name)
Waterford, Connecticut (Address)

Date 1/08/93

Sheet 1 of 2

Unit Two

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

3. Work Performed by Fluor Constructors (Name)
Irvine, California (Address)

Fluor Constructors
Repair Organization P.O. No., Job No., etc.
M2-92-03342 M2-92-11818 M2-92-03316
~~M2-92-03292~~ 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	Bechtel				30-CCA-2 W24	1975	Replaced	Yes (N/A)
	CE				503-03-2	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 / Repair conforms to Section XI of the ASME Code. (repair or replacement)

Signed [signature] (Owner or Owner's Designee) Senior Engineer Title February 10, 1993 (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 I&I of Hartford, CT have inspected the Repair + Replacement described in this Report (Repair(s) or Replacement(s)) on Jan 8, 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 / 11 FEB 93 E York ANII [signature] (Inspector) ANI Commissions CT1137 / NB 5012 (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in items 1 through 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.

AJSieve (SORP59)

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 (Name) Waterford, Connecticut (Address) — Date 1/08/93 — Sheet 2 of 2

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

3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. M2-92-03342 M2-92-11818 M2-92-03316 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 (Name) Waterford, Connecticut (Address) — Date 1/07/93 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors — Repair Organization P.O. No., Job No., etc. M2-92-03342 M2-92-03292 ~~M2-92-00017~~ M2-92-11818 M2-92-10633
4. Identification of System Reactor Coolant Piping - Steam Generator #2, 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 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 / Repair conforms to Section XI of the ASME Code.
(repair or replacement)

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

CERTIFICATE OF COMPLIANCE

SGRP 13+14

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I Co of Hartford, CT have inspected the Repair - Replacement described in this Report
(Repair(s) or Replacement(s))
on Jan 8, 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.

19 FEB 93 [signature] ANII CT 1137

Date 11 FEB 93 [signature] Commissions 1137 CT
(Inspector) ANII (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in Items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 1/07/93 — Sheet 2 of 2

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

3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. M2-92-03342 M2-92-03317 M2-92-03242 M2-92-11815 M2-92-11633

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 (Name) Waterford, Connecticut (Address) Date 1/07/93 Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) Fluor Constructors Repair Organization P.O. No., Job No., etc. M2-92-03342, M2-92-03317
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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Senior Engineer (Title) January 26 (Date), 19 93

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 AI Co of Hartford, CT have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on Jan 8, 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 11 FEB 93 [signature] (Inspector) Commissions NB 5012 (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in Items 1 through 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 (Name) Date 1/07/93
Waterford, Connecticut (Address) Sheet 2 of 2
2. Plant Millstone (Name) Unit Two
Waterford, Connecticut (Address)
3. Work Performed by Fluor Constructors (Name) Fluor Constructors 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 (Name) Waterford, Connecticut (Address) — Date 1/08/93 — Sheet 1 of 2

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

3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. M2-92-03340 M2-92-10945 M2-92-03315 SGRP 11

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 (repair or replacement) conforms to Section XI of the ASME Code.

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

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 I&I Co of Hartford, CT have inspected the Repair + Replacement (Repair(s) or Replacement(s)) described in this Report on Jan 8, 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 / 11 FEB 93 E YORK / [signature] ANI (Inspector) Commissions NY 5212 (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in items 1 through 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.

AJS/eve (SGRP595)

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 (Name) Waterford, Connecticut (Address) Date 1/08/93 Sheet 2 of 2

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

3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) Fluor Constructors Repair Organization P.O. No., Job No., etc. M2-92-03340 M2-92-10945 M2-92-03315 JSCAP11

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 (Name) Waterford, Connecticut (Address) — Date 1/08/93 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors Repair Organization P.O. No., Job No., etc. M2-92-03340 M2-92-10945 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Asst. Engr. (Title) February (Date), 19 93

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 CT 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.

19 FEB 93 York (4137) ANII

Date 11 FEB 93 [signature] (Inspector) ANI Commissions [illegible] (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 1/08/93; Sheet 2 of 2

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

3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors; Repair Organization P.O. No., Job No., etc. M2-92-03340 M2-92-10945 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 (Name) Waterford, Connecticut (Address) Date 1/08/93 Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) Fluor Constructors Repair Organization P.O. No., Job No., etc. AWO M2-92-03340 TCRF 9,10+11 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed _____ (Owner or Owner's Designee) _____ (Title) February 10 (Date), 19 93

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 CT of Hartford, CT have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on Jan 93, 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 (Inspector) _____ Commissions 19 FEB 1993 E YORK PA II CT 1137 (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 1/08/93 — Sheet 2 of 2

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

3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. AWO M2-92-03340 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 (Name) Waterford, Connecticut (Address) — Date 11/30/92 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. See Attached Sheet
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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] Asst Engr Foreman (Owner or Owner's Designee) Title 10 (Date), 19 93

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 I+I G of Hartford, Ct have inspected the Replacement [Repair(s) or Replacement(s)] described in this Report on Dec 8-9 1992 AND Jan 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.

19 FEB 1993 F YORK FNIE CT1137

Date 11 FEB 93 [signature] Commissions [illegible]
(Inspector) (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in Items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 11/30/92 — Sheet 2 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. See Attached Sheet
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

1. Manufactured and certified by The Japan Steel Works, Ltd.,Muroran Plant/4-Chatsu-Machi,Muroran, Hokkaido 051, Japan (name and address of certificate holder)

2. Manufactured for Babcock & Wilcox Canada, a division of Babcock & Wilcox Industries Ltd. Coronation Bird, Cambridge,Ontario Canada N1R 5V3 (name and address of purchaser)

3. Location of installation Millstone Unit 2 Generating Station Waterford, Connecticut, USA (name and address)

4. Type N145581W, Rev.4 (drawing no.) SA508, Cl.3 (mat'l. spec. no.) Min. 80ksi (tensile strength) - (CRN) 1989 (year built)

5. ASME Code, Section III: 1983 (edition) 1984 S.Addenda (addenda) 1 (class) - (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) - (No.) Revision - Date -

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 Cl. 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.) 5'-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
1002	207
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board Number In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

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

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ 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, 345 E. 47th St., New York, N.Y. 10017.

FORM N-2 (back)

Mfr. Serial No. 2 of 2

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) (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 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) (Nat'l. 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

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 (drawing no.) - See Attached List #1 - (mat'l. spec. no.) – (tensile strength) – (CRN) 1991 (year built)

5. ASME Code, Section III: 1983 (edition) Summer 1984 (addenda date) 1 (class) See attached list #2 (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) – (no.) Revision – Date –

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
(1)	761202	124
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
(38)		
(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

10. Design pressure See Attached List #4 Temp. See Attached List #4 Hydro. test pressure See Attached List #4 psi (when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ 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.

FORM N-2 (back)

Mfr. Serial No. 761202

CERTIFICATION OF DESIGN

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

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

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 (NPT Certificate Holder) Signed [signature] (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 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 JUN 19 1991 Signed [signature] (Authorized Inspector) Commissions NB# 6112 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

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

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"	-

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

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

Location of Installation: Millstone II, Waterford, Connecticut

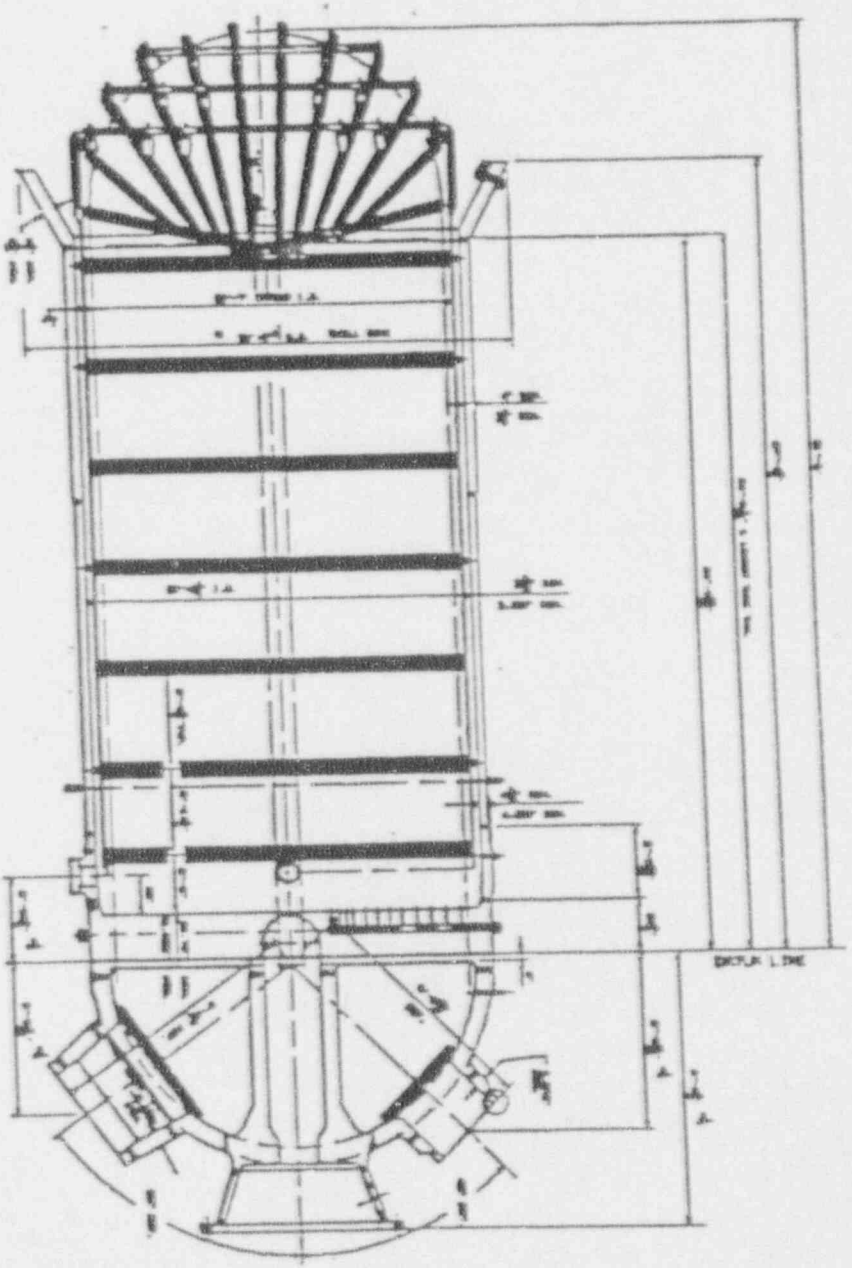


Figure 1

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

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 0614 0270
(name and address of purchaser)

3. Location of installation Millstone II, Waterford, Connecticut
(name and address)

4. Type 7612D275 Rev. 04 (drawing no.) SA 533 Gr. B Cl. 1 (mat'l. spec. no.) 80 ksi (tensile strength) - (CRN) 1991 (year built)

5. ASME Code, Section III: 1983 (edition) Summer 1984 (addenda date) 1 (class) N/A (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) - (no.) Revision - Date -

7. Remarks: Hydro test has not been performed.

8. Nom. thickness (in.) 5.25 Min. design thickness (in.) 4.75 Diameter OD (ft & in.) 2 -4.5 Length overall (ft & in.) N/A

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
(1)	761203	126
(2)	761204	127
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
(38)		
(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

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

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ 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.

FORM N-2 (back)

Mfr. Serial No. _____

CERTIFICATION OF DESIGN

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

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

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 [signature] (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 a loss of any kind arising from or connected with this inspection.

Date SEP 16 1991 Signed [signature] (Authorized Inspector) Commissions [illegible] (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 (Name) Waterford, Connecticut (Address) — Date 11/30/92 — Sheet 1 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. See Attached Sheet
4. Identification of System Steam Generator #1

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	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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Title Sr. Engineer (Date) February 10, 19 93

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 I+I Co of Hartford, CT have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on Dec 8-9 1992 and 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.

19 FEB 93 R York ANII CT1137

Date 11 FEB 93 [signature] (Inspector) AJSI Commissions NB 5062 (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.; (2) information in items 1 through 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 (Name) Waterford, Connecticut (Address) — Date 11/30/92 — Sheet 2 of 2
2. Plant Millstone (Name) Waterford, Connecticut (Address) — Unit Two
3. Work Performed by Fluor Constructors (Name) Irvine, California (Address) — Fluor Constructors, Repair Organization P.O. No., Job No., etc. See Attached Sheet
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

1. Manufactured and certified by The Japan Steel Works, Ltd.,Muroran Plant/4-Chatsu-Machi,Muroran, Hokkaido 051, Japan
(name and address of certificate holder)

2. Manufactured for Babcock & Wilcox Canada, a division of Babcock & Wilcox Industries Ltd. Coronatic Bird, Cambridge,Ontario Canada N1R 5V3
(name and address of purchaser)

3. Location of installation Millstone Unit 2 Generating Station Waterford,Connecticut,USA
(name and address)

4. Type N145581W, Rev.4 (drawing no.) | SA508,Cl.3 (mat'l. spec. no.) | Min. 80ksi (tensile strength) | - (CRN) | 1989 (year built)

5. ASME Code, Section III: 1983 (edition) | 1984 S.Addenda (addenda) | 1 (class) | - (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) - (No.) Revision - Date -

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 Cl. 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
(1)	1001	206
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

	Part or Appurtenance Serial Number	National Board Number In Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
(38)		
(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

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

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ X 1, (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, 345 E. 47th St., New York, N.Y. 10017.

FORM N-2 (back)

Mfr. Serial No. 2 of 2

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 Dec. 14, '88 Name The Japan Steel Works, Ltd. Muroran Plant (NPT Certificate Holder) Signed H. Tsukada (Authorized representative) H. TSUKADA

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 (Authorized Inspector) H. KAWABATA Commissions NB # 10145N (Nat'l. Bd. (incl. endorsement) 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

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 - (drawing no.) (mat'l. spec. no.) (tensile strength) - (CRN) 1991 (year built)

5. ASME Code, Section III: 1983 (edition) Summer 1984 (addenda date) 1 (class) See attached list #2 (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) - (no.) Revision - Date -

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
(1)	761201	123
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
(38)		
(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

10. Design pressure See Attached List #4 psi Temp. See Attached List #4 °F Hydro. test pressure See Attached List #4 psi Temp. °F
(when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ 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)

FORM N-2 (back)

Mfr. Serial No. 761201

CERTIFICATION OF DESIGN

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

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

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 1 3 1991 Name Babcock & Wilcox Canada (NPT Certificate Holder) Signed E B Dahl (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 1 3 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] (Authorized Inspector) Commissions NB #8112. (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

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

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"	-

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

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

Location of Installation: Millstone #1, Waterford, Connecticut

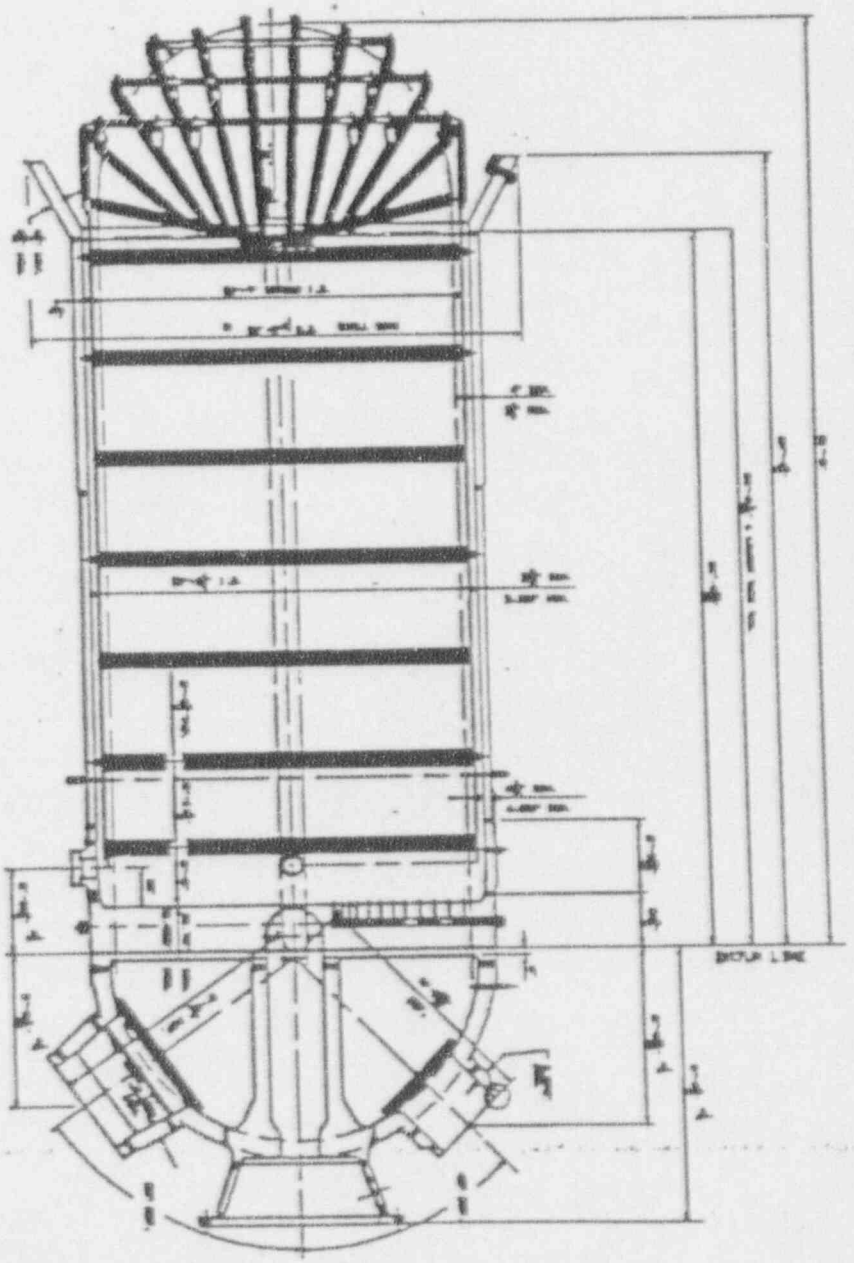


Figure 1
General Arrangement

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

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 7612D275 Rev. 04 (drawing no.) SA 533 Gr. B Cl. 1 (mat'l. spec. no.) 80 ksi (tensile strength) - (CRN) 1991 (year built)

5. ASME Code, Section III: 1983 (edition) Summer 1984 (addenda date) 1 (class) N/A (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) - (no.) Revision - Date -

7. Remarks: Hydro test has not been performed.

8. Nom. thickness (in.) 5.25 Min. design thickness (in.) 4.75 Diameter (ft & in.) 2 -4.5 Length overall (ft & in.) N/A

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
(1)	761203	126
(2)	761204	127
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
(38)		
(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

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

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ 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.

FORM N-2 (back)

Mfr. Serial No. _____

CERTIFICATION OF DESIGN

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

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

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 E G Dahlen (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 a loss of any kind arising from or connected with this inspection.

Date SEP 16 1991 Signed _____ (Authorized Inspector) Commissions _____ (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 (Name) Date 1/25/93
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2
2. Plant Millstone Unit
P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) Dresser Industries PO# 885482, MAIA# 292-087 Repair Organization P.O. No., Job No., etc.
P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System Main Steam
5. (a) Applicable Construction Code Surplus 19 68 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-MS-254	Dresser	BV 4963	NB		PSV 4229	1973	Replaced	yes
2-MS-242	Dresser	BV 4964	NB		PSV 4236	1973	Replaced	Yes
2-MS-244	Dresser	BV 4970	NB		PSV 4238	1973	Replaced	yes
2-MS-248	Dresser	BV 4975	NB		PSV 4232	1973	Replaced	yes

7. Description of Work Replaced Disc's
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 900 psi Test Temp. 532 °F
9. Remarks Leak test performed under AWO's M2-92-4331, 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Station Technician (Title) Jan. 29 (Date), 1993

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 (Repairs or Replacements) described in this Report on 11 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 APRIL 1993 [signature] (Inspector) E YORK Commissions CT 1137 (State or Province, National Board)

Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. X 11 in., (2) information in Items 1 through 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 (Name) Date 1/18/93
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 2
2. Plant Millstone Unit
P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) AWO M2-90-11353 Repair Organization P.O. No., Job No., etc.
P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System Main Stm Blowdown
5. (a) Applicable Construction Code ASME III 62 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-MS-220B	Masoneilan	N00126-6-1	--	--	MRIRs:		replacement	No
					NUTS #92-068-1			
					STUDS 389-137-B49			

7. Description of Work Replaced body to bonnet studs
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 1280 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed R L Cotter (Owner or Owner's Designee) Title Mgr Engineering (Date) 1/18, 19 93

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 RPLMNT (Repair(s) or Replacement(s)) described in this Report on 09 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 19 MARCH 1993 E YORK (Inspector) 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 8½ 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 (Name) Date 1-8-92
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) M2-90-13553 Repair Organization P.O. No., Job No., etc.
P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System Main Stm 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, 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-MS-220B	Masoneilan	N00216-6-2	--	--	MRRS:		Removed	No
					NUT 992-06B-1			
					STUD 989-137-379			

7. Description of Work Replaced body to bonnet bolting
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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Paul H Colville (Owner or Owner's Designee) Mate Engineer (Title) 1/19 (Date), 19 93

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 (Repair(s) or Replacement(s)) described in this Report on 08 JANUARY, 1993 and state that to the best of my knowledge and belief, the 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 (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date FEBRUARY 22, 1993 Sheet 1 of 2

2. Plant Millstone P.O. Box 128 Waterford, Ct. 06385 Unit 1

3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-92-05255 Repair Organization P.O. No., Job No., etc.

4. Identification of System SAFETY INJECTION

5. (a) Applicable Construction Code ASME III 19 68 Edition, — Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 89, 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)
2-SI-652	VELAN	(A2 - 0634 - N-17)	—	—	—	—	REPAIR	YES (N)

7. Description of Work (1) MACHINE VLV BONNET IN SEAL RING SEATING SURFACE TO REMOVE NICK (2) WELD REPAIR AND MACHINE VLV BODY IN SEAL RING SEATING SURFACE

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 2235 psi Test Temp. 93 °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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) MATL ENGINEER (Title) FEB 22 (Date), 19 93

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 (Repair(s) or Replacement(s)) 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 [signature] (Inspector) E 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date FEBRUARY 22, 1993 Sheet 1 of 2
2. Plant Millstone P.O. Box 128 Waterford, Ct. 06385 Unit
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-92-12813 Repair Organization P.O. No., Job No., etc.
4. Identification of System SAFETY INJECTION
5. (a) Applicable Construction Code ANSI B31.7 ~~'68~~ CL II 1968 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-SI-657	FISHER	5467053	—	—	MRIR		REPLACEMENT	NO
					2-65-80 (SEAL RING AND BOLT)			
"	"	"	—	—	MRIR			
					2-9-75 (FLANGE STUD BOLTS)		REPLACEMENT	NO

7. Description of Work REPLACED (1) SEAL RINGAND 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Thomas A Moore (Owner or Owner's Designee) MNTC ENGINEER (Title) FEB 22 (Date), 19 93

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 (Repair(s) or Replacement(s)) described in this Report on 04 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 16 MARCH 1993 E YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date Jan 19, 1993 Sheet 1 of 2
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 1
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-92-05323 Repair Organization P.O. No., Job No., etc.
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code USAS B31.1 1967 1968 Edition, — Addenda, Code Cases —
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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-RC-403	Velan	Wedge			MEIR		replaced wedge	Valve: yes
		4N3885			292-237			
					s/c #			
					5990625			

7. Description of Work Replaced wedge
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
   Pressure 2310 psi Test Temp. 532 °F
9. Remarks New wedge MAT'L APPROVED VIA R.I.E. #HEG-MRRE-92-018; removed indication from new wedge per NCR 292-864. Machined wedge to fit valve per NCR 292-867.
   (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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed P.H. Coletta (Owner or Owner's Designee) Mgr. Engr. (Title) Jan 19 (Date), 19 93

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 BOLTG RPLMNT (Repair(s) or Replacement(s)) 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 22 MARCH 1993 Signed E YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date Jan 18, 1993 Sheet 1 of 1
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 2
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-91-13037 Repair Organization P.O No., Job No., etc.
4. Identification of System Safety Injection
5. (a) Applicable Construction Code Boiler & Vessel 19 68 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-SI-410	Atwood & Morrill	22-094-04					repaired	NO

7. Description of Work LP'd existing "scrape" on internal surface of valve body
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Emy Form 21136-4
   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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Paul H Collette (Owner or Owner's Designee) Maint Engineer (Title) 1/18 (Date), 1993

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 (Repairs) or Replacement(s)) described in this Report on 02 MARCH, 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 03 MARCH 1993 Signed E YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date FEBRUARY 22, 1993 Sheet 1 of 1
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 2
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-92-14374 Repair Organization P.O. No., Job No., etc.
4. Identification of System CHARGING
5. (a) Applicable Construction Code ANSI B31.7 19 CLASS II Edition, 1969 ED ~~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)
FE-212 STUDS AND NUTS	—	—	—	—	MHR 393-181-18 FOR NUTS		REPLACEMENT	No
	—	—	—	—	MHRS 210-282-2 AND 332-378-1 FOR STUDS		REPLACEMENT	No

7. Description of Work REPLACED FLANGE STUDS AND NUTS (8) 1" GR B8 STUDS, (16) 1" GR B NUTS
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ JOINT HAS HAD MANY LEAKS.
   Pressure 2278 psi Test Temp. 578 °F
9. Remarks FLANGED JOINT AT ORIFICE PLATE LEAKING AT RETEST. AWO M2-92-14374
   (Applicable Manufacturer's Data Reports to be attached)
   ATTEMPTED TO TIGHTEN WITHOUT SUCCESS. AWO M2-93-00950 WILL CONTINUE REPAIR
   DURING NEXT REFUELING

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title UPI ENGINEER Date 3/5/ 19 93

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 (Repair(s) or Replacement(s)) described in this Report on 08-10-93, 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 10 MARCH 1993 E YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date Jan 18, 1993 Sheet 1 of 1
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 2
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-92-14958 Repair Organization P.O No., Job No., etc.
4. Identification of System Charging
5. (a) Applicable Construction Code Piping Trans 19 68 Edition, — Addenda, Code Cases —
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements -- 19 80, 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-432	Velan	934-1			MRIR	1974	replaced	Yes
					#MP2-			
					24-74			

7. Description of Work Performed Weld build-up of socket weld ends; machined butt weld ends, LP-RT of 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed P J Collotta (Owner or Owner's Designee) Mntc Engineer (Title) 1/18 (Date), 19 93

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 (Repair(s) or Replacement(s)) 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 23 MARCH 1993 E YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date FEBRUARY 22, 1993 Sheet 1 of 2
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 1
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-91-14015 Repair Organization P.O. No., Job No., etc.
4. Identification of System MAIN STEAM
5. (a) Applicable Construction Code PUMP AND VALVE 1968 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-MS-64A	ATWOOD & MORRILL	—	—	—	—	—	REPAIR	NO

7. Description of Work WELD BUILD UP AND MACHINING 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Thomas A. Moore (Owner or Owner's Designee) MATE ENGINEER (Title) 2/22 (Date), 1993

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 WELD REPAIR (Repair(s) or Replacement(s)) 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 E YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date Jan 1993 Sheet 1 of 1
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 2
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-89-5715 Repair Organization P.O. No., Job No., etc.
4. Identification of System Charging / Letdown
5. (a) Applicable Construction Code Pumps & Vlv 19 68 Edition, — Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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-442	Velan				MR112		replace wedge	valve: YES
					MP2-24-74			
					VC			
					59901337			

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. 552 °F
9. Remarks Weld build-up of new wedge approved via NCR 292-981 (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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Mntc Engineer (Title) 1/19 (Date), 19 93

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 (Repair(s) or Replacement(s)) 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 24 MARCH 1993 Signed [signature] E YORK (Inspector) 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 8½ 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 (Name) Date 1-14-93
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 2

2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385 (Address)

3. Work Performed by Northeast Nuclear Energy Co. (Name) AWO M2-92-16825
P.O. Box 128 Waterford, Ct. (Address) Repair Organization P.O. No., Job No., etc.

4. Identification of System CHARGING

5. (a) Applicable Construction Code ASME B&PV 19 71 Edition, — Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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-518	Fisher	5467850	—	—	—		replacement	Yes

7. Description of Work Replaced plug (disc)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 2310 psi Test Temp. 534 °F

9. Remarks "NEW DISC" WAS refurbished VIA AWO M2-92-16825, Parts were originally removed from identical valve 2-CH-519, re-surfaced
(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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed P.H. Dellette (Owner or Owner's Designee) Mgr Engr (Title) Jan 14 (Date), 19 93

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 Hartford Steam Boiler Inspection & Ins. Co. of Hartford, CT have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report 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 Feb 19, 1993 Elizabeth Ford (Inspector) Commissions CT1137 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. X 11 in., (2) information in Items 1 through 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 1-14-93 Sheet 1 of 1
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 2 AWO M2-92-18730 AWO M2-92-17147
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Main Feedwater
5. (a) Applicable Construction Code ASME III 68 19 71 Edition, — Addenda, Code Cases —
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements -- 19 80, 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-FW-5A	Atwood & Morrill	Model # 12692-1					repaired	Yes

7. Description of Work (1) APPLIED Weld build-up to disc backstop (2) Machined body to Fcontact Gasket
8. Tests Conducted: (1) Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ (2)
   Pressure 1280 psi Test Temp. — °F
9. Remarks (1) Weld build-up authorized by NCR 292-1090. (2) GASKET Modification (Applicable Manufacturer's Data Reports to be attached)
   Authorized by PDCR 2-200-92. Hydrid after weld build-up as part of Stm 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Mntc Engineer (Title) 1/21 (Date), 19 93

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 (Repairs) or Replacement(s)) 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] (Inspector) E 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 8½ 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 (Name) Date 1-14-93
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1

2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385 (Address) AWO M2-92-18732

3. Work Performed by Northeast Nuclear Energy Co. (Name) AWO M2-91-13122
P.O. Box 128 Waterford, Ct. (Address) Repair Organization P.O. No., Job No., etc.

4. Identification of System Main Feedwater

5. (a) Applicable Construction Code ASME III Cl 2 19 71 Edition, — Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, 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-FW-5B	Atwood & Morrill	Model # 12.692-H					repaired	Yes

7. Description of Work (1) APPLIED Weld build-up to disc BACKSTOP (2) Machined body for Flexitallic gasket

8. Tests Conducted: (1) Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ (2)
Pressure 1280 psi Test Temp. — °F

9. Remarks (1) Repair authorized by NCE 292-1030. (2) GASKET modification (Applicable Manufacturer's Data Reports to be attached)
authorized by PDCR 2-200-92. Hydro'd after weld build-up as part of Station Hydro. In-service leak test after gasket modification.

CERTIFICATE OF COMPLIANCE

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

Signed P J Colbert (Owner or Owner's Designee) Maint Engineer (Title) Jan 14 (Date), 19 93

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 (Repair(s) or Replacement(s)) 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 Signed E YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date FEBRUARY 24, 1993 Sheet 1 of 2
2. Plant Millstone P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 1
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) - AWO M2-92-12273 Repair Organization P.O No., Job No., etc.
4. Identification of System REACTOR COOLANT (ICI)
5. (a) Applicable Construction Code ASME III 1974 Edition, 74 S. Addenda, Code Cases —
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 1989, 89 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)
H1	C.E	—	—	—	MRIR 292-128	FOR STUDS	REPLACEMENT	NO
ICI FLANGE #5	(HEAD)							

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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Thomas A Moya (Owner or Owner's Designee) UNIT ENGINEER (Title) FEB 24 (Date) 19 93

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 (Repair(s) or Replacement(s)) 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 loss of any kind arising from or connected with this inspection.

Date 12 MARCH 1993 E York (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 1-18-93 Sheet 1 of 1
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 2
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-92-3484 Repair Organization P.O No., Job No., etc.
4. Identification of System Containment Penetration - Fuel Transfer Flange
5. (a) Applicable Construction Code ASME III 66 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)
Fuel Transfer Flange					SPEC SP-ME-727		replacement	NO

7. Description of Work REPLACED "lost" bolting
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒
   Pressure 56 psi Test Temp Ambient °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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed P.J. Gallo (Owner or Owner's Designee) Maint. Engr. (Title) 1/18 (Date), 19 93

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 (Repair(s) or Replacement(s)) 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 18 MARCH 1993 Signed E YORK (Inspector) 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 8½ 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 (Name) P.O. BOX 128 WATERFORD, CT 06385 (Address) Date Jan 29, 91 Sheet 1 of 1
2. Plant MILLSTONE Unit 2 P.O. BOX 128 (Name) WATERFORD, CT 06385 (Address) AWO M2-90-16145 (Cold Leg) AWO M2-90-16146 (Hot Leg)
3. Work Performed by NORTHEAST Nuclear Energy Co. (Name) P.O. Box 128 Waterford, CT 06385 (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME III 1A 19 68 Edition, Summer 69 Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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)
X-25								
No. 1 Station								
Primary Manway								
16 Studs	Cardinal	—	—	—	MRIR 289-209-1	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 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Paul H Collette (Owner or Owner's Designee) Maintenance Engineer (Title) Jan 29 (Date), 19 91

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 [Repair(s) or Replacement(s)] described in this Report on MAY 04, 19 91 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 (Inspector) 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 8½ 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 (Name) Date Jan. 29, 1991
P.O. BOX 128 WATERFORD, CT 06385 (Address) Sheet 1 of 1

2. Plant MILLSTONE Unit 2
P.O. BOX 128 (Name) WATERFORD CT 06385 (Address) AWO M2-90-16147 (Cold Leg) AWO M2-90-16149 (Hot Leg)

3. Work Performed by NORTHEAST Nuclear Energy Co. (Name) Repair Organization P.O. No., Job No., etc.
P.O. Box 128 Waterford, CT 06385 (Address)

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code ASME III 64 19 68 Edition, Summer 69 Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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)
X-26,								
No 2 Stm Gen								
Primary Manway								
39 STUDS	Cardinal	–	–	–	MRIR 289-209-1	1989	REPLACED	NO
RK 11 NUTS	A-G				MRIR 289-177-1	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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Paul H Willett (Owner or Owner's Designee) Maint. Engr. (Title) 1/29 (Date), 19 91

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 REPLACEMENTS (Repair(s) or Replacement(s)) described in this Report on MAY 04, 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 MAY 04, 1991 E.A. YORK (Inspector) 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 8½ 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 (Name) P.O. BOX 128 WATERFORD, CT 06385 (Address) Date Jan 29, 1991 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. (Name) P.O. Box 128 Waterford, CT 06385 (Address) AWO M2-90-16203 Repair Organization P.O. No., Job No., etc.
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME III 1968 Edition, Summer 69 Addenda, Code Cases —
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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)
Pressurizer T-37								
Primary Manway								
1 Stud	Cardinal	—	—	—	MRIR 289-20M	1989	REPLACED	NO
NUT					MRIR 289-19		REPLACED	NO

N/A PLC 1/29/91

7. Description of Work REPLACED 1 STUD(S)
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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Paul Willetts (Owner or Owner's Designee) Maintenance Engr (Title) Jan 29, 19 91 (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&INSCO HARTFORD, CT have inspected the REPLACEMENT (Repair(s) or Replacement(s)) described in this Report on MAY 04, 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 MAY 04, 1991 E.A. YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 9/22/92 Sheet 1 of 2
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 1
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO N2-91-05669 Repair Organization P.O. No., Job No., etc.
4. Identification of System RCS
5. (a) Applicable Construction Code ASME III 19 68 Edition, S1969 and ~~ASME II B0 W80~~ Addenda, Code Cases
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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)
PRESSURIZER STUDS	WYMAN GORDON	291-037 -1	-	-	-	91	Replacement	NO

7. Description of Work Replaced 3 Pressurizer Nonway Studs
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☑ Other ☐
   Pressure 2250 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Engineer (Title) 9/22 (Date), 19 92

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 3 STUDS REPLMNT (Repair(s) or Replacement(s)) described in this Report on JUNE 17, 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 10-05-92 E YORK [signature] (Inspector) 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 8½ 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 (Name) P.O. BOX 128 WATERFORD, CT 06385 (Address) Date 6/3/91 Sheet 1 of 1

2. Plant MILLSTONE (Name) P.O. BOX 128 WATERFORD, CT 06385 (Address) Unit 2

3. Work Performed by NORTHEAST NUCLEAR ENERGY CO. (Name) P.O. BOX 128 WATERFORD, CT 06385 (Address) AWO M2-90-14107 Repair Organization P.O. No., Job No., etc.

4. Identification of System FEEDWATER

5. (a) Applicable Construction Code PUMP & VALVE 19 68 Edition, 68 Addenda, Code Cases --

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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-FW-5A STUDS		—	—	—	MRIR 291-019-3	—	REPLACEMENT	NO
2-FW-5A NUTS		—	—	—	MRIR 291-019-1	—	REPLACEMENT	NO
								1 - 5/8"

7. Description of Work REPLACED ALL 20 CLOSURE STUDS AND NUTS (1⅝" Ø)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ VTM 6/2/91

Pressure 910 psi Test Temp. 437 °F

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

CERTIFICATE OF COMPLIANCE REPLACEMENT VTM 6/3/91

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

Signed Maint Engr (Owner or Owner's Designee) Title 6/3, 19 91 (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 (Repair(s) or Replacement(s)) described in this Report on 1/4/91 THRU 7/2, 19 91 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 Signed E A York (Inspector) 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 8½ 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 (Name) Date 6/3/91
P.O. BOX 128 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. (Name) AWO M2-90-14107 Repair Organization P.O No., Job No., etc.
P.O. BOX 128 WATERFORD, CT 06385 (Address)

4. Identification of System FEEDWATER

5. (a) Applicable Construction Code 68 PUMP & VLV Edition — Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, 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-FW-5A	ATWOOD & MORRILL		—	—	—	—	REPAIRED	NO

7. Description of Work WELDED REPAIR OF BODY GASKET SEATING SURFACE / MANH 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 (repair or ~~replacement~~) conforms to Section XI of the ASME Code.

Signed Thomas P. Moore (Owner or Owner's Designee) MAINT ENGR Title 6/3 (Date), 19 91

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 (Repair(s) or Replacement(s)) 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 E.A. York (Inspector) Commissions CT 1137 (State or Province, National Board)

E A YORK

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. X 11 in., (2) information in items 1 through 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 (Name) Date 1/8/91
P.O. Box 128 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. (Name) AWO M2-90-14109 Repair Organization P.O. No., Job No., etc.
P.O. Box 128 Waterford, CT 06385 (Address)
4. Identification of System MAIN STEAM
5. (a) Applicable Construction Code GB PUMPS & VLV Edition, CLASS 2 Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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-AMS-190A	COPES VULCAN	—	—	—	—	—	REPLACEMENT	NO
NUTS					MRR-291-019			

7. Description of Work REPLACED ALL (8) 1 3/8" Ø BOTTOM COVER NUTS
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 835 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Thomas A Moore (Owner or Owner's Designee) MAINT FOREMAN (Title) 1/8 (Date), 1991

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 HSB I&I CO of CONN. have inspected the REPLACEMENTS (Repair(s) or Replacement(s)) described in this Report on 1/23, 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 1/03/91 (Inspector) Commissions NB10644 CT1262 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. X 11 in., (2) information in items 1 through 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 (Name) Date 1/8/91
P.O. BOX 128 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 M2-90-14409
P.O. Box 128 (Name) Waterford, CT 06385 (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System M.S. STEAM
5. (a) Applicable Construction Code CS PUMP + VALVE Edition, CLASS 2 Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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-MS-190A	COPES VULCAN	—	—	—	—	—	REPAIRED	NO

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 25203-29087, 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Title MAINT ENGINEER (Date) 1/8, 1991

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 HSB I&I CO of CONN have inspected the REPAIRS (Repair(s) or Replacement(s)) described in this Report on 1/23, 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 1/23/91 [signature] (Inspector) Commissions NB 10044 CT 1262 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. X 11 in., (2) information in items 1 through 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 (Name) Date FEBRUARY 22, 1993
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 2
2. Plant Millstone Unit
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. (Name) AWO M2-91-04949 (Repair Organization P.O. No., Job No., etc.)
P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System CHARGING
5. (a) Applicable Construction Code PUMP VALVE 19 68 Edition, — Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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)
P-1BA 'A' CHG PUMP	GAULIN	878030	—	—	MAR 2-2PS-284	-	REPLACED	NO

7. Description of Work REPLACED CRACKED CHARGING PUMP BLOCK
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 2300 psi Test Temp. 105 °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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Title MATC ENGINEER (Date) 2/22, 19 93

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 (Repair(s) or Replacement(s)) described in this Report on 05-24-91, 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 03-03-93 E YORK [signature] (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 1/2/92 Sheet 1 of 1
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 2
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-91-05623 Repair Organization P.O No., Job No., etc.
4. Identification of System 23" MAIN STEAM
5. (a) Applicable Construction Code USAS B31.1 19 67 Edition, Addenda, Code Cases
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 92, NE1 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)
3-MS-19-A	CRANE VALVE CO.	7110-95210 -1-1	—	—	—	—	REPAIR	NO
AFW Drain Valve								

7. Description of Work MACHINING OF PLUG TO INCORPORATE DESIGN CHANGE
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
   Pressure 585 psi Test Temp. 532 °F
9. Remarks CHANGES TO MAKE PLUG FOR PLUG HINGE WERE MACHINED DEEPER PER REPAIR SPECIFICATION.
   (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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Title MTCE FOR Date 1/2, 19 92

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 (Repair(s) or Replacement(s)) 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 [signature] (Inspector) Commissions NB 9384 CT 1137 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. X 11 in., (2) information in items 1 through 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 1/29/92 Sheet 1 of 2
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-91-12219 Repair Organization P.O No., Job No., etc.
4. Identification of System MAIN STEAM
5. (a) Applicable Construction Code Power Valve 19 68 Edition, Addenda, Code Cases
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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	DRAVO	–	–	–	6"-EBB-2	–	REPAIRED	PIPING "NPT" stamped
AT Safety Vlv								
2-MS-242								
(6"-EBB-2)								

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 Pump & Valve Code (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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Richard H Hobbs (Owner or Owner's Designee) Maint Engr (Title) 1/29 (Date), 19 92

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 (Repair(s) or Replacement(s)) described in this Report on FEBRUARY 24, 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 24 FEB 92 E YORK (Inspector) Commissions CT 1137 NB 9384 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. X 11 in., (2) information in items 1 through 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 (Name) Date 5/6/92
   P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 2
2. Plant Millstone Unit 1
   P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) AWO M2-91-12244 Repair Organization P.O. No., Job No., etc.
   P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System 2316 MAIN STEAM
5. (a) Applicable Construction Code ASME III, CL2 19 71 Edition, W72 Addenda, Code Cases —
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements -- 19 80, 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	MASONEILAN	N-20126-6-2	N/A	N/A	—	—	REPAIR	NO
2. (8) 5/8 x 3 1/2 LG 193, B8 STUDS	SEE MFR	N/A	N/A	N/A	NRIR 390-291-1	—	REPLACEMENT	NO

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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Thomas A. Moore (Owner or Owner's Designee) MGR ENGR (Title) 5/6 (Date), 19 92

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 (Repair(s) or Replacement(s)) described in this Report on 06 JANUARY, 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 04 AUGUS, 19 92 Signed [illegible] E YORK (Inspector) 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 8½ 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 (Name) Date 1/15/92
   P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2. Plant Millstone (Name) Unit 2
   P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) AWO M2-91-13216 Repair Organization P.O No., Job No., etc.
   P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System MAIN STEAM
5. (a) Applicable Construction Code [illegible] 19 [illegible] Edition, — Addenda, Code Cases —
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, [illegible] 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-[illegible]	[illegible]	—	—	—	*		REPLACEMENT	NO
					SEE NCRs		291-237 AND	291-310
						AND	PDCR 2-	110-91
							MRIR 291-	212-19

7. Description of Work [illegible] CONTROL VALVE
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
   Pressure 850 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) [illegible] Title 1/15 (Date), 1992

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 (Repair(s) or Replacement(s)) described in this Report on 6 JANUARY ----, 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 29 JULY 1992 ELIZABETH YORK [signature] (Inspector) Commissions CT 1137 NB 9384 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. X 11 in., (2) information in items 1 through 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 (Name) Date 1-18-93
   P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2. Plant Millstone Unit 2
   P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) AWO M2-92-00614
   P.O. Box 128 Waterford, Ct. (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System RCS
5. (a) Applicable Construction Code ASME III CL 1 19 68 Edition, Summer 69 Addenda, Code Cases
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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)
HJTC	GRAYLOCK				STUD MARK		replacement	NO
GRAYLOCK					286-M231			
FLANGE					NUTS			
					284-59-5			
					284-57-5			

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. 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed P J Hollett (Owner or Owner's Designee) Mnte Engineer Title 1/18 (Date), 19 93

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 BOLTG RPLMNT (Repair(s) or Replacement(s)) described in this Report on 22 MARCH & 11 DECEMBER, 19 93 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 22 MARCH 1993 E YORK (Inspector) 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 8½ 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 (Name) Date 3/26/93
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385
3. Work Performed by Northeast Nuclear Energy Co. (Address) AWO# M292-1520 Repair Organization P.O. No., Job No., etc.
P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code SCT III 19 68 Edition, ____ Addenda, Code Cases ____
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, ____ Addenda, Code Cases WINTER 81
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 MRR	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CASING MT-X	BYRON JACKSON	232424			291-099	1991	REPLACEMENT	YES
ROT. ELEMENT	BYRON JACKSON	234134			287-116	1986	REPLACEMENT	~~YES~~ NC KC 3/30/93

7. Description of Work REMOVED ORIGINAL ROTATING ELEMENT & COVER & INSTALLED NEW COMPONENTS.
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 2310 psi Test Temp. 553 °F
9. Remarks ORIGINAL PUMP SN 081-N-0451 (2CF'A')
(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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) SR ENG. Title 3/26/93 (Date), 19____

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 REPLACEMNT/BLOCK (Repair(s) or Replacement(s)) described in this Report on 30 MARCH, 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 30 MARCH 1993 [signature] (Inspector) E YORK Commissions CT 1137 (State or Province, National Board)
*reviewed & verified

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. X 11 in., (2) information in Items 1 through 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 1-9-93 Sheet 1 of 2
2. Plant Millstone P.O. Box 128 Waterford, Ct. 06385 (Address) Unit
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) M2-91-13033 Repair Organization P.O. No., Job No., etc.
4. Identification of System Boric Acid
5. (a) Applicable Construction Code B&V CL II 19 68 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-155	Velan	-	-	-	G238-M3-II-C	1973	Replacement	NO

7. Description of Work Replace nut and stud
8. Tests 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Engineer (Title) January 9, 19 93 (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 BOLTG RPLMNT (Repairs or Replacement(s)) 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 30 MARCH 1993 [signature] (Inspector) E 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 1-8-93 Sheet 1 of 1 2
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-92-06297 Repair Organization P.O. No., Job No., etc.
4. Identification of System Safety INJECTION
5. (a) Applicable Construction Code State Plumbing 19 68 Edition, — Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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-SI-008	Velan						REPAIRED	No

7. Description of Work Re-MACHINED Bonnet to restore seal ring seating surface
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 2282 psi Test Temp. 65 °F
9. Remarks WORK performed IAW 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Paul M Collotta (Owner or Owner's Designee) MNTC Engineer (Title) JAN 8 (Date), 19 93

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 (Repair(s) or Replacement(s)) 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 (Inspector) Commissions CT 1137 (State or Province, National Board)

*reviewed/verified

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. X 11 in., (2) information in Items 1 through 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 (Name) Date 1-18-93
   P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 2
2. Plant Millstone (Name) Unit
   P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) AWO M2-92-16719 Repair Organization P.O. No., Job No., etc.
   P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System Letdown
5. (a) Applicable Construction Code ASME III, 68 19 71 Edition, — Addenda, Code Cases —
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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-515	Fisher	5967848			NEW PLUG		replacement	No
					MRR #			
					2-141-7			

7. Description of Work replaced valve PLUG & trim
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) Hydro'd as part of RCS Hydro. Valve also tested IAW OPT Form 26052 (LLRT)

CERTIFICATE OF COMPLIANCE

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

Signed P H Colletta (Owner or Owner's Designee) Title Mgr. Engineering Date 1/18, 19 93

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 REPLMNT (Repairs) or Replacement(s)) described in this Report on 17 MARCH & OR 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 (Inspector) 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 8½ 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 (Name) Date 1-14-93
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 2

2. Plant Millstone Unit
P.O. Box 128 Waterford, Ct. 06385 (Address)

3. Work Performed by Northeast Nuclear Energy Co. (Name) AWO M2-92-16667 Repair Organization P.O No., Job No., etc.
P.O. Box 128 Waterford, Ct. (Address)

4. Identification of System Charging

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, 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-519	Fisher	5467052					replacement	Yes

7. Description of Work Replaced valve plug (disc)

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure 2310 psi Test Temp. 532 °F

9. Remarks EXISTING DISC WAS pitted. A one-for-one replacement was installed. New plug MRR # 292-8-7 PK
(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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed PJ Hebert (Owner or Owner's Designee) Mnte Engr (Title) 1-18 (Date), 19 93

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 (Repair(s) or Replacement(s)) 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 18 MARCH 1993 E YORK (Inspector) 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 8½ 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 (Name) Date FEBRUARY 24, 1993
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2
2. Plant Millstone Unit
P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) - AWO M2-90-13363 Repair Organization P.O. No., Job No., etc.
P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code ASME III ~~19~~ C-1, 1971 Edition, — Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 1989, NB1 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-20J	DRESSER	BN7128	—	—	MRIR 250-250-1	STUDS	REPLACEMENT	NO
					MRIR 250-250-2	NUT		

7. Description of Work REPLACED 1 STUD AND 2 NUTS (1½" ASTM 193/194 GR B7/8) 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Title MNTC ENGINEER Date FEB 24, 19 93

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 NUT & STUD REPLACEMENT (Repair(s) or Replacement(s)) 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 04 MARCH 1993 Signed E YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date FEBRUARY 22, 1993 Sheet 1 of 1

2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 2

3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) - AWO M2-92-18622 Repair Organization P.O. No., Job No., etc.

4. Identification of System REACTOR COOLANT SUPPORT

5. (a) Applicable Construction Code MSS-SP-58 19 67 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)
H&R	—	—	—	—	SPRIR 291-231-1	BOLTS	REPLACEMENT	NO
408010A				✓	391-253-1	NUTS		
AT VLV								
2-RI-201								

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 Test Temp. ____ °F

9. Remarks A UT & 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Thomas A Nurse (Owner or Owner's Designee) NUTC ENGINEER Title 3/22/ (Date), 1993

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 (Repair(s) or Replacement(s)) described in this Report on 04 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 16 MARCH 1993 Signed E YORK (Inspector) 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 8½ 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 (Name) Date FEBRUARY 22, 1993
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2

2. Plant Millstone Unit
P.O. Box 128 Waterford, Ct. 06385 (Address)

3. Work Performed by Northeast Nuclear Energy Co. (Name) - AWO M2-92-18621 Repair Organization P.O. No., Job No., etc.
P.O. Box 128 Waterford, Ct. (Address)

4. Identification of System REACTOR COOLANT SUPPORT

5. (a) Applicable Construction Code ASS-SP-58 19 67 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)
HGR	-	-	-	-	MRIR 392-077-1	BOLTS	REPLACEMENT	NO
408009A					MRIR 492-023-1	NUTS		
AT VLV								
2-RC-200								

7. Description of Work REPLACED 2 BOLTS AND 2 NUTS ON SUPPORT WHICH ATTACHES TO INLET FLANGE ON PRESSURIZER SAFETY 2-RC-200

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

9. Remarks A VT-1 VISUAL EXAM OF THE INSTALLED SUPPORT WAS MADE VERIFYING INSTALLATION (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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Title NUC ENGINEER Date FEB 22, 19 93

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 (Repair(s) or Replacement(s)) described in this Report on 04 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 loss of any kind arising from or connected with this inspection.

Date 17 MARCH 1993 [signature] E YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date FEBRUARY 22, 1993 Sheet 1 of 2
2. Plant Millstone P.O. Box 128 Waterford, Ct. 06385 (Address) Unit
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) - AWO M12-92-16821 Repair Organization P.O. No., Job No., etc.
4. Identification of System CHARGING
5. (a) Applicable Construction Code ASME III ~~'68~~ Cl. 1, 1971 Edition, — Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, 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-517	FISHER	4924590	—	—	~~Not~~ ~~223-684~~ C.T. No. 4/14/93		REPLACEMENT	NO
					MRR 5-11-93			
					(MPSV #	MP-SP-	858)	

7. Description of Work REPLACED WORN VALVE ~~DISC~~ PLUG C.M. 4/16/93
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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Thomas A. Moore (Owner or Owner's Designee) MNTC. ENGINEER (Title) FEB 24 (Date), 19 93

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 CONNCETICUT, employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the PLUG REPLACEMENT (Repair(s) or Replacement(s)) 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 16 APRIL 1993 Signed E YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date FEBRUARY 24, 1993 Sheet 1 of 2

2. Plant Millstone P.O. Box 128 Waterford, Ct. 06385 Unit

3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) - AWO M2-92-16784 Repair Organization P.O. No., Job No., etc.

4. Identification of System MAIN STEAM

5. (a) Applicable Construction Code 1965 PUMP & VLV CODE Edition, — Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements -- 1989, W89 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	CRANE VOLCAN	7110-95210-1-2	—	—	—	—	REPAIRED	NO

7. Description of Work REPAIRED GASKET SEATING SURFACE ON VALVE BODY AND COVER IAW PDCR 2-171-9

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 900 psi Test Temp. 532 °F

9. Remarks RETEST 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Thomas A. Vecchi (Owner or Owner's Designee) MAINT. ENGINEER Title FEBRUARY 24, 1993 (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 Machine Repair (Repair(s) or Replacement(s)) 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 Signed [illegible] (Inspector) Commissions CT 137 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. X 11 in., (2) information in Items 1 through 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date FEBRUARY 24, 1993 Sheet 1 of 1 2
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) - AWO M2-91-13268 Repair Organization P.O. No., Job No., etc.
4. Identification of System MAIN STEAM
5. (a) Applicable Construction Code ASME PUMP ~~&~~ AND VALVE Edition, 1989 ED Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 1989, NO1 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	COPES VULCAN	7110-95210-1-2	—	—	P.O. 939997		REPAIR &	
					FOR PLUG		REPLACEMENT	
					(MRIA 292-341-1)			

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 ☐
Press. 920 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Thomas A Moore (Owner or Owner's Designee) MATL ENGINEER (Title) FEBRUARY 24, 1993 (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 & Replacement (Repair(s) or Replacement(s)) described in this Report on 11 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 20 April 1993 Signed Charles Yale (Inspector) Commissions CT37 NB 9584 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. X 11 in., (2) information in Items 1 through ~~6~~ on this 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 (Name) Date 04-09-93
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2. Plant Millstone Unit 2
P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) M2-92-08955/08443 Repair Organization P.O. No., Job No., etc.
P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System 2312 CONTAINMENT STRUCTURE SYSTEM - PENETRATIONS
5. (a) Applicable Construction Code ANSI B31.7 II 19 67 Edition, Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements -- 19 86 Jul 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)
6" PIPE CAP	BECHTEL	--	--	--	PEN#48	1971	REPAIR	NO

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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) Engr Tech Title 04-09 (Date), 19 93

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 [Repair(s) or Replacement(s)] described in this Report on 20 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 09 APRIL 1993 [signature] E YORK (Inspector) 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 8½ 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 (Name) Date 1/8/93
   P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2. Plant Millstone (Name) Unit 2
   P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) AWO No. M2-92-15088
   P.O. Box 128 Waterford, Ct. (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System AUX FEEDWATER CLASS 2
5. (a) Applicable Construction Code ASME III 19 71 & B6 Edition, WINTER 1981 Addenda, Code Case N/A
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, WINTER 1981 Addenda, Code Case N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No. MPSN No.	Nat'l. Bd. 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

----								

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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Robt. Capo (Owner or Owner's Designee) SENIOR ENGINEER (Title) 1-11 (Date), 19 93

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 (Repair(s) or Replacement(s)) described in this Report on 09 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 12 JANUARY 1993 ELIZABETH 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date FEBRUARY 22, 1993 Sheet 1 of 2
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 1
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-92-13294 Repair Organization P.O. No., Job No., etc.
4. Identification of System SAFETY INJECTION
5. (a) Applicable Construction Code ASME III 19 65 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-SI-652	VELAN	P2-2634-N-17	N/A	—	—	—	REPAIR	'N' (YES)

7. Description of Work DRILL 1/4" HOLE ON UPSTREAM SIDE OF VALVE WEDGE TO INSURE HYDRAULIC FORCES WILL EQUALIZE AND ELIMINATE POTENTIAL FOR BINDING
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
   Pressure 22 psi Test Temp. 83 °F
9. 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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed [signature] (Owner or Owner's Designee) MNTC ENGR Title FEB 22 (Date), 19 93

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 (Repair(s) or Replacement(s)) described in this Report on 01 MARCH, 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 01 MARCH 1993 [signature] E YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 1-18-93 Sheet 1 of 1
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 2
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-92-14959 Repair Organization P.O No., Job No., etc.
4. Identification of System Charging
5. (a) Applicable Construction Code Pump & Valve 19 68 Edition, — Addenda, Code Cases —
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, 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)
2-CH-433	Velan	933-1			MRI R # MP-V-134	1974	replaced	No - see remarks

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 (Applicable Manufacturer's Data Reports to be attached) Valve was upgraded to CLASS 1 VIA NCR 292-651; Conversion to butt welds accomplished VIA NCR 292-901

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title Mate Engineer Date Jan 18, 19 93

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 RPLMN/REPAIR (Repairs) or Replacement(s)) 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 26 MARCH 1993 [signature] (Inspector) E 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date March 25, 1993 Sheet 1 of 2
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 1
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) RWO M2-92-14020 Repair Organization P.O No., Job No., etc.
4. Identification of System Charging
5. (a) Applicable Construction Code ASME III 19 74 Edition, S75 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)
P18B	APV-GAULIN	87E040	N/A	N/A	N/A	1989	Replacement	Yes

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 (Applicable Manufacturer's Data Reports to be attached)
attached data report.

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Engineer (Title) March 25 (Date), 19 93

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 (Repair(s) or Replacement(s)) described in this Report on 30 MARCH, 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 30 MARCH 1993 [signature] (Inspector) E 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date FEBRUARY 22, 1993 Sheet 1 of 1 2
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-92-00231 Repair Organization P.O. No., Job No., etc.
4. Identification of System MAIN STEAM
5. (a) Applicable Construction Code PUMP & VALVE CODE 1968 Edition, — Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 1989, 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)
① 2-MS-65B	VELAN	—	—	—	—	—	REPAIRED	NO
② 2-MS-65B BONNET CLAMP	VELAN	—	—	—	MRIA 252-1052	—	REPLACE	NO

7. Description of Work ① ② REPLACED BONNET CLAMP RESTORE SEAL RING SEATING SURFACE ON VALVE BONNET BY MACHINING
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 990 psi Test Temp. 530 °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 AND REPLACEMENT (repair or replacement) conforms to Section XI of the ASME Code.

Signed Thomas A. Moss (Owner or Owner's Designee) Title MAINT. ENGINEER (Date) 2/27, 19 93

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 BONNET&BNT CLMP (components described in this Report) described in this Report on 12-8-92, 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 02-26-93 E YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date FEBRUARY 22, 1993 Sheet 1 of 2

2. Plant Millstone P.O. Box 128 Waterford, Ct. 06385 (Address) Unit

3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO M2-92-01665 Repair Organization P.O. No., Job No., etc.

4. Identification of System MAIN STEAM

5. (a) Applicable Construction Code ASME III, 4a 19 74 Edition, S 75 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-MS4B	ANCHOR DARLING	—	—	—	—	—	REPAIRED	NO

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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Thomas A. Moore (Owner or Owner's Designee) MECH ENGINEER (Title) FEB 22 (Date) 19 93

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 (Repair(s) or Replacement(s)) described in this Report on 15 FEBRUARY, 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 10 MARCH 1993 Signed E YORK (Inspector) 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 8½ in. × 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 (Name) Date FEBRUARY 23, 1993
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2

2. Plant Millstone Unit
P.O. Box 128 Waterford, Ct. 06385 (Address)

3. Work Performed by Northeast Nuclear Energy Co. (Name) - AWO M2-92-03788 Repair Organization P.O. No., Job No., etc.
P.O. Box 128 Waterford, Ct. (Address)

4. Identification of System SAFETY INJECTION

5. (a) Applicable Construction Code ASME PUMP ~~AND~~ VALVE ~~Edition~~, 1968 ED Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements — 19 80, 481 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)
2-51-227	ATWOOD & MORRILL	—	—	—	MRR 291-2000-1	STUDS	REPLACEMENT	NO
					MRR 292-334-1	NUTS	REPLACEMENT	

7. Description of Work REPLACED COVER STUDS AND NUTS WITH DESIGN SUITABLE FOR USE WITH HYDRAULIC TENSIONER

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 2235 psi Test Temp. 550 °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 (repair or replacement) conforms to Section XI of the ASME Code.

Signed Warren R. Wood (Owner or Owner's Designee) MNTC ENGINEER (Title) FEB 23 (Date), 19 93

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 (Repair(s) or Replacement(s)) 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 C. York E YORK (Inspector) 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 8½ 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 (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 1/27/93
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1 Unit 2
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) 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, 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,	ASME Code Stamped (Yes or No)
MS-239	Dresser	BN4976	NB		PSV 4253	1973	Repaired ~~Replacement~~	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 yoke and yoke Rod Nuts.
Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 1087 psi Test Temp. 532 °F
Remarks Leak Test performed under AWO'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 (Applicable Manufacturer's Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed Mark J Wyn (Owner or Owner's Designee) Station Technician (Title) 1/29/93 (Date), 19 93

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 and employed by THE HARTFORD STEAM BOILER INSPN & INS CO of HARTFORD, CT have inspected the REPAIR (Repair(s) or Replacement(s)) described in this Report on 11 JANUARY, 19 93. I certify 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.

Signed [illegible] (Inspector) Date 05 APRIL 1993

E YORK Commissions CT 1137 (State or Province, National Board)

Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.