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

NUSCO ISI Coordinator

Reviewed By:

R. J. Fuller NUSCO ISI Coordinator

Approved By:

R. T. Blanchard

NUPCO ISI Coordinator

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### NUSCO

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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

	CWILL LAND			(Nan	ne and Addre	ss of Ov	vner)				, CT 0614
2	Plant Mil	lstone	Nuclear	Power	Station,	P.O.	Box	128,	Waterfor	rā, CT	06385
				(Na	me and Addr	ess of P	lant)				
3.	Plant Unit	#2		4. Ow	ner Certificat	e of Au	thoriza	ation (i	f required)_	N/A	
	Commercial		19/96	175		and Mission	har for	- Mais	2093	14	

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
New SG #1		2/2002	37 / 5	123
Class 1, Welds	B&WFluor	761201	N/A	122
New SG #1 Class 2 Welds	B&WFluor	761201	N/A	123
New SG #2 Class 1 Welds	B&WFluor	761202	N/A	124
RV Internal Exam	MCE	67110	N/A	20914
Prz. Noz.	MCE	67605	N/A	20918
New RCS Welds CL-1	Fluor	N/A	N/A	N/A
Piping Welds Class 1	MBechtel	N/A	N/A	N/A
Piping Welds Class 2	MBechtel	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
J.WF Supports	Various	N/A	N/A	N/A
RCP "A"	MByronJackson	681-N-0449	N/A	N/A
Class 2/3 CMT Pens	Various	N/A	N/A	N/A
27-12				*
SE SELVI				

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 1/4/9/ to 1/24/93 9. Inspection Interval from 12/26/85 to 12/26/95
<ol> <li>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.</li> <li>Abstract of Conditions Noted.</li> </ol>
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 X1.
1. 1 W - 22 . I How + March from Jon VI Blanchan
Date April 14 19 93 Signed Northeast Nuclear Grenylasy IT Blanchard
Certificate of Authorization No. (if applicable) NA - Expiration Date NA -
CERTIFICATE OF INSERVICE INSPECTION
Inspectors and/or the State or Province of CONNECTICUT and employed by THE HFD STM BLR I&ICO of HARTFORD, CT have inspected the components described in this Owners' Data Report during the period O4 JANUARY 191 to 24 JANUARY 193, 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 Control 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 0614 (Name and Address of Owner)
2. Plant: Millstone Nuclear Power Station, P.O. Box 128, Waterford, CT 0638 (Name and Address of Plant)
3. Plant Unit: 2 4. Owner Certificate of Authorization (if required):
5. Commercial Service Date: 12/26/75 6. National Board Number for Un

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

MF-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

INTRODUCTION

#### INTRODUCTION

- 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.
- 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.
- 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.
- 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."
- 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."
- 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.
- There were a few rejectable indications noted during the 'WF examinations that required expanding the IWF support population per IWF-2430 (a) and (b). Refer to Section 10 of this report for specific details.

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

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

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 ELAMINATION
MP-XII-06	0	MAGNETIC PARTICLE EXAMINATION (DRY METEOD)

#### NORTHEAST UTILITIES

NUMBER	REV.	TITLE
NU-LP-1	10	LP EXAM COLOR CONTRAST SOLVENT REMOVABLE
NU-MP-1	9	MP EIAM YOKE METHOD
NU-MP-3 *	0	MP EIAM THROUGH PAINT AND COATINGS
NL-UT-1	8 £ 9	UT GENERAL REQUIREMENTS
NU-UT-2	8	UT EXAM AUSTENITIC AND DISSIMILAR METAL WELDS
NU-UT-3	7	UT EIAM FERRITIC PIPING WELDS
NU-UT-7	4 & 5	UT EXAM VESSEL WELDS
NU-UT-11	2	UT EIAM L-WAVE BUTT WELDS
NU-UT-16	3	UT EIAM 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 EIAM REACTOR COOLANT PUMP FLYWHEELS
NU-UT-26	3	PRIMARY COOLANT PIPING WELDS
NU-VT-1	9 & 10	VISUAL EIAM

<sup>\* 1991</sup> MID CYCLE OUTAGE EXAMINATIONS

#### BABCOCK & WILCOX PERSONNEL CERTIFICATIONS

NAME	2.000	1	- The second second		
	VI	PT	UT	MT	CERTIFICATION
R. ALFECHE				11	07/02/93
L. BOUGHNER				II	09/29/93
T. PAGE				II	09/22/92

# CRAMER / LINDELL PERSONNEL CERTIFICATIONS

	ME	TEODS/	EXPIRATION DATE OF EYE		
NAME	VI	PT	UI	MI	CERTIFICATIONS
A. E. KISSINGER *	ZI	II	11	II	06/07/91
M. R. ROBERTS *	II	II		II	08/13/91

#### FLUOR PERSONNEL CERTIFICATIONS

	×	ETHODS	/LEVEL	S	EIPIRATION DATE OF EYE	
NAME	VT	PT	UT	MT	CERTIFICATIONS	
R. BOONE				II	08/21/93	
G. CABRAL		11		II	05/22/93	
R. C. CUPP		II		11	09/04/93	
s. DRIGGERS				11	06/19/93	
D. DUMAIS				II	06/19/93	
s. D. GARRETT		1		II	08/04/93	
D. JOHNSON		11			06/25/93	
R. MILLER		11		II	06/15/93	
R. J. PACKER		II			06/13/93	
D. RICKETTS	144	1		11	06/13/93	
L. STERLING				II	06/05/93	

<sup>\* 1991</sup> MID CYCLE OUTAGE EXAMINATIONS

# ABB/AMDATA PERSONNEL CERTIFICATIONS

		ETHODS	DATE OF EYE		
NAME	VI	PT	UT	MT	CERTIFICATIONS
J. B. ABBOTT	11	II	I		11/23/92
T. T. BOHENKAMPER	II	II	11	11	07/22/92
T. J. BOYERS	II	11	III		11/12/92
M. C. BREHLER			1		08/11/93
S. E. FONICELLO		II	I	II	10/16/93
J. C. GRIGSBY			II		11/22/93
M. D. HAHN		11	11	11	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	11		11/02/93
N. L. LASOYA		I	1	1	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			11		01/06/93
K. K. SMITE			11		11/02/93
D. M. SUMMERFORD	II	1	11	11	12/17/92
K. F. WICKENHAUSER		11	II	II	05/07/93
T. W. WINGFIELD			11		11/02/93
J. P. PHILLIPPI *				11	02/03/92
C. T. SELLERS *				I	04/03/92

<sup>\* 1991</sup> MID CYCLE OUTAGE EXAINATIONS

# NRT TECHNICAL PERSONNEL CERTIFICATIONS

	ME	THODS/	EXPIRATION DATE OF EYE		
NAME	VI	PT	UT	MT	CERTIFICATIONS
J. VAUGEN	11				05/19/93

#### MUPOC PERSONNEL CERTIFICATIONS

	ME	METBODS/LEVELS			EXPIRATION DATE OF EYE
NAME	VT	PT	UT	MI	CERTIFICATIONS
V. BURNETT	II				03/16/93
R. MONTGOMERY	II				09/09/93
J. TYROL	11				02/20/93
T. QUINLEY	II				10/01/93

#### MUSCO PERSONNEL CERTIFICATIONS

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

<sup>\* 1991</sup> MID CYCLE OUTAGE EXAMINATIONS

EQUIPMENT AND MATERIAL LIST

#### EQUIPMENT AND MATERIAL LIST

Manufacturer	Item	Model or Type	Serial or Batch Number
KAGNAPLUI	CLEANER	SKC-NF	90C01K
KAGNAFLUI	CLEANER	SKC-NF	91B02K
na gnapiji	CLEANER	BEC-NP	91B02K-A
MAGNAPLUI	CLEANER	BKC-WF	92A13K
ULTRAGEL II	COUPLANT	ECEO	091011
ULTRAGEL II	COUPLANT	ECHO	8872
ULTRAGEL II	COUPLANT	ECHO	92101
MAGNAFLUX	DEVELOPER	SKD-NF	90K0?K
MAGNAFLUX	DEVELOPER	SED-NF	91B04P
MAGNAPLUI	DEVELOPER	SKD-WF	92E04K
PARKER *	MT YOKE	B-300	1416
PARKER	MT YOKE	B300	3434
PARKER	MT YOKE	В300	4092
PARKER	MT YOKE	в300	4093
PARKER	MT-YOKE	DA200	6751
MAGNAFLUX	PENETRANT	SKL-EF/S	90L02K
MAGNAFLUX	PENETRANT	SKL-EF/S	92A05P
K/B	UT INSTRUMENT	EPOCE 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

<sup>\* 1991</sup> 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 MEx	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 MEs	1.0*	AEROTECE
B02363	2.25 MHz	0.50"	AEROTECH
B11541	2.25 MEz	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"	AEROTECE
B26091	2.25 MHz	0.5 X 1.0"	AEROTECH
D17695	2.25 MHz	0.75*	AEROTECE
E19700	2.25 MHz	0.5 x 1.0"	AEROTECH
£19712	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"	AEROTECE
F15164	2.25 MHz	1.0"	AEROTECE
F15174	2.25 MHz	1.0"	AEROTECE
F18226	2.25 MHz	0.5*	AEROTECH

#### ULTRASONIC TRANSDUCER LIST

SERIAL NUMBER	FREQUENCY	SIZE	MANUFACTURER
F18229	2.25 MEs	0.5*	AEROTECH
F18233	2.25 MEs	0.5*	AEROTECE
F23611	2.25 MEx	0.5"	AEROTECE
F26508	2.25 MEs	0.75*	AEROTECE
F27608	2.25 MEx	0.5*	AEROTECE
F27618	2.25 MHz	0.5"	AEROTECH
G15615	2.25 MHz	0.5 X 1.0*	AEROTECE
G15619	2.25 MHz	0.5 x 1.0"	AEROTECE
G15620	2.25 MHz	0.5 x 1.0"	AEROTECE
G15624	2.25 MHz	0.5 X 1.0*	AEROTECE
H20505	2.25 MHz	1.0*	AERCIECE
B20519	2.25 MHz	0.5~	AEROTECH
H20520	2.25 MEz	0.5*	AEROTECE
B30549	2.25 MEz	0.5"	AEROTECE
K05696	2.25 MHz	1.0"	AEROTECE
K16415	2.25 MHz	1.0"	AEROTECE
K26261	2.25 MHz	0.5"	AEROTECE
K30647	2.25 MEz	0.75"	AEROTECE
1.03138	2.25 MEz	0.5 X 1.0"	AEROTECE
M16512	2.25 MHz	1.125"	AEROTECH
1 1			

## CALIBRATION BLOCK LIST

#### BABCOCK AND WILCOX

CAL. BLOCK #	DRAWING #	REVISION
20-7-046	1P-18000	В
20-1-048	1P-18001	0
20-1-049	1P-18003	c
20-T-052	1P-18040	0
20-T-053	1P-18002	A
20-T-054	1P-18004	0

#### 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	SEEET #15	1
	DRAWING #25203-2944	9
UT-46	PART # 46	3
UT-47	PART # 47	3
UT-60	PART # 60	3
RCP FLYWEELL	NONE	NONE
ROMPAS BLOCK	SN# 054892	NONE
STEP WEDGE	SN# 91-6478	NONE
UT-31 (MP-3)	WESTINGBOUSE DRAW	ING #80D7571 REV.0

CONDITIONS NOTED

#### CONDITIONS NOTED

- 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.

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-1-3HC-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 Largar 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 per-

formed 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
нлтс-в	Acceptable	VT-1/3
RC-100E	Acceptable	VT-1 / 2
RC-100F	Acceptable	VT-1 / 2
RC-200 FLANGE	Acceptable	VT-1 / 3
RC-250	Acceptable	VT-1/2
RC-251	Acceptable	VT-1 / 2
SG-1-B-1-A	Acceptable	VT-1:3,45
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

# 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

# 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

# Category B-M-2

Examination Area: Valve Bodies Examination Method: Visual (VT)

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

### 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

### 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 wa 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

### 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

### 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

### Category C-C

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

### 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

### 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

### 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

### 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 IS/ 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

### Category IWF 1

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

## Category IWF 2

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 VT-3 / 2	
404020	Acceptable		
407001	Acceptable	VT-3 / 2, 15	
407003	Acceptable	VT-3 / 2	
412012	Acceptable	VT-3 & 4 / 3, 9	
412017	Acceptable	VT-3 / 3	
	Acceptable	VT-3 / 2	
502004	Acceptable	VT-3 / 2	
502013	Acceptable	VT-3 / 2	
502023	Acceptable	VT-3 / 2, 9	
502024	Acceptable	VT-3 & 4 / 2	
502026	Acceptable	VT-3 / 2	

### Category IWF 3

Item Number	Results	Remarks/Notes	
1-156SHT.1	Acceptable	VT-3 / 2	
303002	Acceptable	VT-3 / 2, 15	
303002	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 VT-3 / 2	
313074	Acceptable		
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	

### Category IWF 3

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

## Category IWF 3

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	
A05962	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	
115053	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	

## Category IWF 3

Item Number	Results	Remarks/Notes	
127099	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 VT-3 / 2 VT-3 / 2	
503020	Acceptable		
503021	Acceptable		
503022	Acceptable	VT-3 / 2	
505179	Acceptable	VT-3 / 2	
505230	Acceptable	VT-3 / 2	
513018	Acceptable	\frac{17-3 / 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	

## Category IWF 3

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 VT-3 / 3 VT-3 / 2 VT-3 / 2		
60519	Acceptable			
6JGD-M-7A-4	Acceptable			
6JGD-M-7A-5	Acceptable			
6JGD-M-7A-7	Acceptable	VT-3 / 2, 15		
8JGD-M-7A-1	Acceptable	VT-3 / 2		
BJGD-M-7A-2	Acceptable	VT-3 / 2, 3, 15		
BJGD-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

No	te 1	Second Period, Second Interval ISI Code Creditable Exam.
No	te 2	Third Period, Second Interval ISI Code Creditable Exam.
No	te 3	This examination was performed for preservice code credit.
No	te 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.
No	te 5	The examination performed on this weld was for information only.
No	te 6	The Steam Generator Number One hydrostatic test was conducted prior to the Class 2 steam generator preservice examination.
No	te 7	Additional inner radius UT examinations were performed on this nozzle to assure adequate coverage.
No	te 8	Indications were noted during this examination but were dispositioned, acceptable per IWF-3400.
No	te 9	This support was rejected per IWF-3400, rapaired, and reinspected.
No	te 10	This support examination was added to the work plan per IWF-2430(a).
No	te 11	This support examination was added to the work plan per IWF-2430(b).
No	te 12	This support was examined for preservice credit, rejected per IWF-3400, repaired, and reinspected.
No	te 13	Support #380009 was examined for second period credit instead of support #405707.
No	te 14	This exam was performed while in the area performing exams on adjacent components. It is not for code credit.
No	te 15	NDE indications were noted and reported. However, they were dispositioned as acceptable per the applicable section of the ASME code.
No	ite 16	This support was rejected during last period and is being re-examined in accordance with the requirements of IWF-2420(b).
No	ote 17	This is a new weld added during the steam generator replacement project and wa 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

	wner Northeast Nuclear Energy Company (Name)			Date 1/06/93				
	Wa	Waterford, Connecticut			Sheet 1 of 2			
2. Plant		Millstone (Name) Weterford, Connecticut			Unit Two			
4. Identification	Work Performed by Fluor Constructors (Name) Irvine, California (Address) Identification of System Feedwater Piping Support  (a) Applicable Construction Code 19 Edition, A							
(b) Applic 6. Identificati	able Edition	n of Section	XI Utilized 1	or Repair	s or Replacer	nents-19 <u>80</u>	, 81W Addenda	, Code Cas
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Net'l. Bd. No.	CRN No.	Other Identifica- tion	Year Built	Repaired, Replaced or Replace- ment	ASME Code Stamped (Yes or No)
Pipe Support	Bechtel	R	1+	-	412012	1975	Modification	No
	Fluor	-				1992	Modified	No
	iducted: Hi	See_Attac ydrostatic essure ps	Pneumatic .	_ Nomin	nal Operating	Pressure	Other 🗸 - NO	T APPLICAE
B. Tests Cor  9. Remarks  We certify th XI of the AS  Signed	Anat the stat	policable Manuf	Pneumatic i Test Ter acturer's Data	Reports to	be attached)	NCE	Other - NO	orms to Sec
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AJSIeve (SGRP588)

Northeast Nuclear Energy Company 1. Owner

(Name)

Waterford, Connecticut

(Address)

Millstone (Name)

Waterford, Connecticut

(Address)

Fluor Constructors 3. Work Performed by

(Name)

Irvine, California

(Address)

4. Identification of System Feedwater Piping Support

2. Plant

Date 1/05/93

Sheet 2 of 2

Unit Two

Fluor Constructors

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

- 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 5(a) AISC, MSS-SP-58 and AWS D1.1-1990 Edition for welding.
- Replacement steam generator necessitated a portion of feedwater piping be replaced. This piping 7. replacement necessitated an adjustment in the subject piping support.

Work was performed per AWO M2-92-19118.

I. Owner	No	rtheast Nucle	ear Energy C	ompany	D	Date 12/15/92			
	W	(Name) sterford, Con	necticut		S	Sheet 1 of 2			
. Plant	<u>t</u> Mi	(Address) (Istone (Name)			U	nit <u>Two</u>			
	<u>W</u>	sterford, Con	necticut						
(Address)  Work Performed by Fluor Constructors (Name)  Irvine, California (Address)				Re	Fluor Constructors Repair Organization P.O. No., Job No., etc.  PLO - M2-92-17852				
. Identificati	on of Syst	em <u>Feedy</u>	vater Piping	Support					
(b) Applic	able Edition	ruction Code n of Section ponents Rep	XI Utilized f	or Repair	s or Replacer	ments-19 <u>80</u>	EE ATTACHMEN 0, 81W Addenda	NT) , Code Cas	
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identifica- tion	Year Built	Repaired, Replaced or Replace- ment	ASME Code Stamped (Yes or No)	
Pipe Support	Bechtel			-97	412917	1975	Modified	No	
	Fluor					1992	Modification	No	
7 Descriptio	and Month	Son Associ	h.m.c.st						
8. Tests Cor 9. Remarks We certify th XI of the AS Signed	nducted: Hi Pr (A	pplicable Manuf ements mad	Preumatic Test Ter Test Ter CERTIFIC in this report Title	ATE OF	COMPLIA	NCE s Copil	Other / - NOT	orms to Sec	
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NOTE Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 % in is 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

1. Owner

Northeast Nuclear Energy Company

Date 12/15/92

(Name)

Waterford, Connecticut

Sheet 2 of 2

2. Plant

Millstone (Name) Unit Two

Waterford, Connecticut

(Address)

3. Work Performed by

(Address) Fluor Constructors

(Name)

Irvine, California

(Address)

4. Identification of System Feedwater Piping Support

Fluor Constructors

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

- Applicable Construction Code: Original supports were fabricated to ANSI B31.7 requirements which 5(a) 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.
- 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.

Owner	wher Northeast Nuclear Energy Company (Name)					Date 12/23/92				
	W	Waterford, Connecticut			S	Sheet _1 of _2_				
Plant	(Address) Millstone (Name)			t						
	W	laterford, Con	necticut							
. Work Perfo	Work Performed by Fluor Constructors  (Name)  Irvine, California					Fluor Constructors Repair Organization P.O. No., Job No., etc.				
		(Address)					2-17832			
. Identification	on of Syst	tem <u>Stean</u>	m Generator	#1 - Arc	Strike Repa	iir				
(b) Applica	able Editio		XI Utilized for	or Repair	s or Replace	ments-19 <u>80</u>	Addenda, Co., 81W Addend			
Component	of Mfr.	No.	Bd. No.	No.	Identifica- tion	Built	Replaced or Replace- ment	Code Stamped (Yes or No)		
Steam Generator	B&W	761201	123			1983 19845	Repair	Yes		
		1								
								-		
7. Description B. Tests Con B. Remarks	ducted: H P	See Attac lydrostatic / ressure 1250 Applicable Manuf	Pneumatic psi Test	Temp. 1	40°F	ng Pressure	Other _			
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on Dor	8	, 1992	and state t	(Rep	airls) or Replace	y knowledge	and belief, this Code. By sig	s repair or		
certificate, the repair o shall be liab	neither the r replacer ble in any	ne Inspector n ment describe manner for a	nor his emplo	yer mak	es any warranthermore, n	anty, expres either the In	sed or implied, spector nor his ess of any kind	concerning employer		
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(Inspector) (State or Province: National Board)

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Sheet 2 of 2

Fluor Constructors

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

Unit Two

Northeast Nuclear Energy Company 1. Owner Date 12/23/92

(Name)

Waterford, Connecticut

(Address)

2. Plant Milistone

(Name)

Waterford, Connecticut

(Address)

3. Work Performed by Fluor Constructors

(Name)

Irvine, California

(Address)

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

Description of Work: Arc strike was removed by grinding. Surface NDE was performed after grinding. 7. Work was performed per AWO M2-92-17832.

AUS MAN (SCRPSRO)

	No.		ear Energy (	Company	Di	ate 12/22/	92	
	Wa	(Name) sterford, Con-	necticut		S	heet 1	of _2_	
2. Plant	M	(Address)			U	nit Two		
	441	(Name)						
	VV 2	(Address)	necticut					
3. Work Perfo	rmed by	Fluor Const	tructors			uor Constru		
		(Name) Irvine, Calif	fornia				172-92-17	
		(Address)						127
4. Identification	on of Systi	em <u>React</u>	or Coolant	- Pressuri	zer Surge Lin	ne Support		
5. (a) Applica	able Const	ruction Code	19_Edit	tion, _ A	ddenda, Code	e Cases (SE	E ATTACHMEN	T)
(b) Applica	able Edition	n of Section .	XI Utilized f	or Repair	s or Replacer	ments-19 <u>80</u>	81W Addenda	, Code Cas
5. Identificati	on of Com	ponents Rep	aired or Rep	placed, a	nd Replaceme	ent Compor	nents	
Name of	Name	Mfrs. Ser.	Nat'l.	CRN	Other	Year	Repaired.	ASME
Component	of Mir.	No.	Bd. No.	No.	Identifica-	Built	Replaced	Stamped
							Replace-	(Yes or No)
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Pipe Support	Bechtel		1.54	100	408017	1975	Modified	No .
	F1				408017	1992	Modification	No
	Fluor			-	400017	1902	Widdingston	1
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1. Owner

Northeast Nuclear Energy Company

Date 12/22/92

(Name)

Waterford, Connecticut

Sheet 2 of 2

(Address)

2. Plant

Millstone

Unit Two

(Name) Waterford, Connecticut

(Address)

3. Work Performed by

Fluor Constructors

(Name)

Irvine, California

Fluor Constructors

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

(Address) 4. Identification of System Reactor Coolant - Pressurizer Surge Line Support

- Applicable Construction Code: Original supports were fabricated to ANSI B31.7 requirements which 5(a) 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.
- Modification entailed cutting off 9 inches of beam end. This end provided no structural strength to remaining support.

Owner	No	rtheast Nucls	ear Energy C	Company		ate 1/06/9	3		
	(Name) Waterford, Connecticut					Sheet 1 of 2			
	(Address)								
Plant	Mi	(Name)			Init Two				
	W	(Address)	necticut						
Work Perfo	rmed by	Fluor Consi (Name)	tructors			luor Constru lepair Organizet	Ctors ion P.O. No., Job	No., etc.	
		Irvine, Cali	fornia			AL	no 172-9:	2-14233	
Identification	n of Syst	(Address) em <u>Stean</u>	n Generator	#1 - Inst	rument Noz	zle Repair			
(b) Applica	able Editio	ruction Code	XI Utilized f	or Repair	s or Replace	ments-1980	, 81W Addend	a, Code Cas	
. Identificatio	on of Com	ponents Rep	aired or net	naceo, a	no rieplacem			T	
Name of	Name	Mfrs. Ser.	Nat'l. Bd. No.	CRN No.	Other Identifica-	Year Built	Repaired, Replaced	ASME	
Component	Mtr.		6011111		tion		or	Stamped	
							Replace- ment	(Yes or No)	
Steam Generator	B&W	761201	123			1983 1984S	Repaired	Yes	
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				-		-		-	
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Inspector) A State or Province, fustional Board.

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1. Owner

2. Plant

Northeast Nuclear Energy Company

Date 1/06/93

(Name)

Waterford, Connecticut

Sheet 2 of 2

(Address)

Millstone

Unit Two

(Name)

Waterford, Connecticut

(Address)

3. Work Performed by

Fluor Constructors

Fluor Constructors

(Name)

Repair Organization P.O. No., Job 16., etc.

Irvine, California

(Address)

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

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

Owner	No	Northeast Nuclear Energy Company (Name)				Date 12/03/92			
	Wa	Waterford, Connecticut				Sheet 1 of 2			
. Plant		(Address) Millstone			U	Unit Two			
		(Name)							
	VV 2	(Address)	DECTION						
. Work Performed by		Fluor Constructors (Name) Irvine, California				Fluor Constructors			
					Pepeir Organization P.O. No., Job No., etc. M 2-5 2-07339 M2-92-09				
		(Address)	Dittib				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11	
Identification	on of Syste	em <u>Main</u>	Steam Supp	port					
(b) Applica	able Edition	ruction Code n of Section i ponents Rep	XI Utilized for	or Repair	s or Replacer	nents-19 <u>80</u>	e <u>Attachment</u> 0 <u>, 81W</u> Addenda nents	, Code Cas	
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identifica- tion	Year Built	Repaired, Replaced or Replace- ment	ASME Code Stamped (Yes or No.)	
Support 312008 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	
		A CONTRACTOR OF THE PARTY OF TH	The second second second second second	-	Actor Commence of the Commence	CONTRACTOR OF THE PARTY OF THE	THE RELEASE PARTICIPATION OF THE PARTY OF TH	The second second second second	
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NOTE: Supplemental priests in form of lists, aketones or drawings may be used provided (1) size at 8 1 in , x 11 in , 12 information in terms 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.

1. Owner

Northeast Nuclear Energy Company

Date 12/03/92

(Name)

Waterford, Connecticut

Sheet 2 of 2

(Address)

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 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.

Woh gerfund gan AWO M2-92-07339 and M2-92-09657.

Ghlore 1/26/83

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	W	(Address)	inecticut					
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Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	DRN No.	Other Identifica- tion	Year Built	Repaired, Re, soed or Replace- ment	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
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1. Owner

Northeast Nuclear Energy Company

Date 1/08/93

(Name)

Waterford, Connecticut (Address)

Sheet 2 of 2

2. Plant

Millstone

Unit Two

(Name)

Waterford, Connecticut

(Address)

3. Work Performed by

Fluor Constructors

(Name)

Irvine, California

(Address)

Fluor Constructors

ricoair Organization P.O. No., Job No., etc.

4. Identification of System RBCCW - Bolting Replacement

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

Description of Work: Bolting replacement was performed on 6-HBD(B)-125 and 3-HBD(B)-125. Work was Hydrothe Test gir 172-42-14087 performed per AWO M2-92-11340 and M2-92-00016.

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 - \$A 193, Grade B7 HT #PP

1. Owner	No.	(Name)	ear Energy	Compar		12/15/92		
	W	aterford, Cor	nnecticut		Shee	1 1 of	2	
. Plant	Mi	(Address)			Unit	Two		
	567	(Name) aterford, Cor	necticut					
	XX	(Address)	III CONCE		10.00			
. Work Perfo	rmed by	Fluor Cons	tructors		Strategie and	r Construct	P.O. No., Job No.,	etc
		Irvine, Cali	ifornia		A	20 1	72-92-11	291
4. Identificatio	on of Sust	(Address) em RBC(	~W			. /	72-92-1	4087
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RBCCW Piping	Bechtel		-		6-HBD(B)-125	1975	Replaced	No
	Fluor				6-HBD(B)-125	1992	Replacement	No
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AUS HV8 (5087510)

Northeast Nuclear Energy Company 1. Owner

(Name)

Date 12/15/92

Waterford, Connecticut

(Address)

Sheet 2 of 2

2. Plant

3. Work Performed by

Millstone (Name) Unit Two

Waterford, Connecticut

(Address)

Fluor Constructors

(Name)

Irvine, California

(Address)

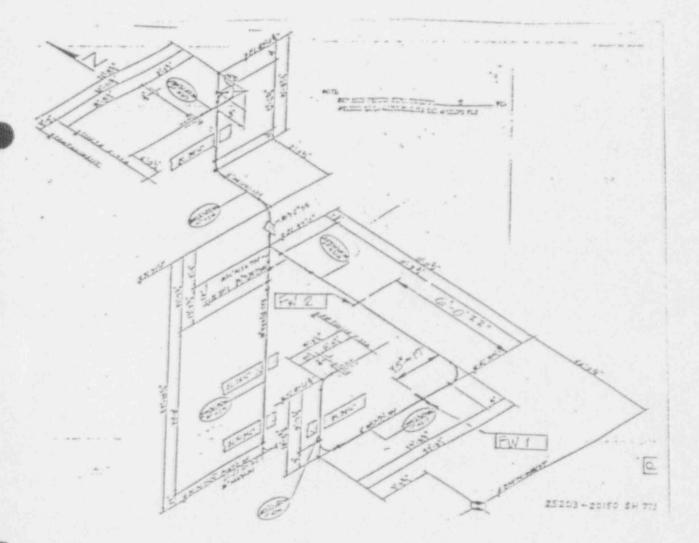
Fluor Constructors

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

RBCCW 4. Identification of System

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.

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



Northeast Nuclear Energy Company

(Name)

Waterford, Connecticut (Address)

1. Owner

2. Plant

Date 12/23/92

Sheet 1 of 2

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. Work Perfo	rmeo by	(Name)	tructors		-	uor Constru spair Organizat	ion P.O. No., Job I	No., etc.
		Irvine, Calif	fornia			D1.10	112-92-	15217
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1. Owner

Northeast Nuclear Energy Company

(Name)

Waterford, Connecticut

Sheet 2 of 2

Date 12/23/92

(Address)

Millstone

Unit Two

2. Plant

(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 Reactor Coolant System

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

Work Performed by   Goderner   Waterford, Connecticut   Goderner   Goderner   Goderner   Waterford, Connecticut   Goderner   Goder		No	rtheast Nucle	ar Energy C	ompany	Date	12/15/9	2	
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Waterford, Connecticut (Address)   Work Performed by   Fluor Constructors   Pluor Constructor	2. Plant	Mil	Istone			Unit	Two		
Work Performed by Fluor Constructors (Name)   Ivine   California   Cal		Wa	sterford, Con	necticut					
Identification of System   Feedwater	3. Work Perforn	ned by	Fluor Const	tructors					o., etc.
(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 N/A (b) Applicable Edition of Components Repaired or Replaced, and Replacements Components  Name of Components Repaired or Replaced, and Replacement Components  Name of Name Mfrs. Ser. Natl. CRN Other Year Repaired Code Stamper of No. Mfr. No. Identification Built Replaced or Replaced Freedwater Code Stamper Code S			Irvine, Calif	fornia					
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Pipe Elbow  CS-3428-2  CDescription of Work See Attachment Tests Conducted: Hydrostatic Peneumatic Nominal Operating Pressure Other Pressure 1250 psi Test Temp. 140°F  Remarks  (Applicable Manufacturer's Data Reports to be attached)  CERTIFICATE OF COMPLIANCE  (Velocity that the statements made in this report are correct and this Repair or replacement)  CERTIFICATE OF COMPLIANCE  (I) the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vession Inspectors and the State or Province of Repair of Replacements of Repair of Replacement of Repair of Replacement of Repair of Replacements of Repair of R		of	The state of the s		a management	Identifica-		Replaced or Replace-	ASME Code Stampe (Yes or N
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1. Owner

Northeast Nuclear Energy Company

Waterford, Connecticut

(Address)

2. Plant

Millstone (Name)

Waterford, Connecticut

(Address)

3. Work Performed by

Fluor Constructors

(Name)

Irvine, California

(Address)

4. Identification of System Feedwater

Date 12/15/92

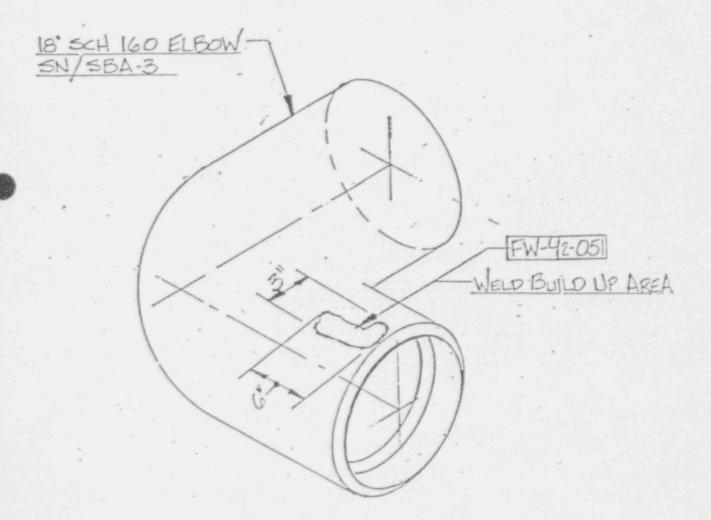
Sheet 2 of 2

Unit Two

Fluor Constructors

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

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



	No	rtheast Nucle	ear Energy (	Company	0	Date 12/03/	92	
	Wa	(Name) sterford, Con	necticut		S	Sheet 1	of _2_	
2. Plant	Mi	(Address)			L	Jnit Two		
	Wa	(Name) aterford, Con (Address)	necticut					
3. Work Perfo	rmed by	Fluor Const	ructors			Fluor Constru Repair Organize	uctors tion P.O. No., Job N	o., etc.
		Irvine, Calif (Address)						
4. Identification	on of Syste	em <u>Steam</u>	Generator	#2 - Blo	wdown			
5. (a) Application (b) Application (c) Application (c)	able Edition	n of Section X	I Utilized for	Repairs	or Replaceme	ents-19 <u>80, 8</u>	81W Addenda, C	ode Cases
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Net'l. Bd. No.	CRN No.	Other Identifice- tion	Year Built	Repaired, Replaced or Replace- ment	ASME Code Stamped (Yes or No)
Pipe Supports	Fluor	N/A	N/A	N/A	N/A	1992	Replacement	No
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(Inspector) (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 % in. x 11 in.; (2) information in fiems 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.

1. Owner

Northeast Nuclear Energy Company

Date 12/03/92

(Name)

Waterford, Connecticut

Sheet 2 of 2

(Address)

2. Plant

Millstone (Name) Unit Two

Waterford, Connecticut

(Address)

3. Work Performed by

Fluor Constructors

Fluor Constructors

Irvine, California

(Address)

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.
- 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	66242-222JJ-491356C	M2-92-04129
Hanger 2	86242-22200-491357B	M2-92-04129
Hanger 2	86242-22200-491357	M2-92-04129

	No	theast Nucle	ar Energy C	ompany	D:	ate 1/08/9	3	
	Wa	(Name) terford, Coni (Address)	necticut		SI	heet 1 c	1 2	
2. Plant	Mil	(Name)			U	nit <u>Two</u>		
	Wa	(Address)	nectious					
3. Work Perfo	rmed by	Fluor Const (Name) Irvine, Calif			Fie	A comment of the comm	ion P.O. No., Job N	
		(Address)		mont			12-72-70	020
4. Identification	on or Syste	em <u>hocc</u>	vv Figing Si	SEPOLI				
5. (a) Applica (b) Applica 6. Identificati	able Edition	n of Section	XI Utilized f	or Repair	s or Replacer	nents-19 <u>80</u>	, <u>81W</u> Addenda	, Code Cas
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'i. Bd. No.	CRN No.	Other Identifica- tion	Year Built	Repaired, Replaced or Replace- ment	ASME Code Stemped (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 8. Tests Con	iguctea: m	ARREST TARGET TO THE PERSON OF	Test Ten	ip *F				
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NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 % 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.

1. Owner Northeast Nuclear Energy Company

(Name)

Waterford, Connecticut

Sheet 2 of 2

Fluor Constructors

Date 1/08/93

2. Plant Millstone

(Name)

Unit Two

Waterford, Connecticut

(Address)

3. Work Performed by Fluor Constructors

(Name)

Irvine, California

(Address)

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.
- 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.

	172	(Name)	ear Energy (		Date <u>12/03/92</u>			
	W	(Address)	necticut			Sheet 1	of _2_	
. Plant	Mi	listone				Unit Two		
	W	(Name) aterford, Con	necticut					
Work Perfo	rmed by	(Address) Fluor Const	tructors			Fluor Constr	ictors	
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. Identification	on of Syste	em Steam	n Generator	#1 - Blo	wdown			
. (a) Applica	able Const	ruction Code	_ 19_ Edit	tion, N/A	Addenda, (	Code Cases !	See Attached	
<ul><li>(b) Application</li><li>Identification</li></ul>							B1W Addenda, C	ode Cases h
	Name	Mfrs. Ser.	Nat'l.	CRN	Other	Year	Repaired.	ASME
Name of Component	of	No.	Bd. No.	No.	Identifica-	Built	Replaced	Code
	Mfr.				tion		Replace-	Stamped (Yes or No)
						-	ment	
Pipe Supports	Fluor	N/A	N/A	N/A	N/A	1992	Replacement	No
Supports	Bechtel	N/A	N/A	N/A	N/A	1975	Replaced	No
	Dounter	38.6	1977	18/6	18/75	1979	Replaced	100
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1. Owner

Northeast Nuclear Energy Company

Date 12/03/92

(Name)

Waterford, Connecticut

Sheet 2 of 2

(Address)

2. Plant

Millstone (Name) Unit Two

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

- 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 **	86242-22200-60395	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	25203-22200-4913540	M2-92-18559

	No	rtheast Nucle	ear Energy C	20mpany		ate 1/08/9		
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		(Address)						
. Work Perfo	rmed by	Fluor Cons	tructors			luor Constru		
		(Name)				M2-92-1067	tion P.O. No., Job N	D., #1C.
		Irvine, Cali	tornia			M2-92-0161		
. Identificatio	on of Suct	(Address)	n Generator	#2 - Blos		the second second		
. ruciiiiiuaiii	m or oyse	0111				-		
(a) Application (b) Application (b) Application (b)	able Editio	n of Section	XI Utilized f	or Repair	s or Replace	ments-19 <u>80</u>	, B1W Addenda	, Code Ca
							Repaired.	ASME
Name of	Name	Mfrs. Ser.	Nat'l. Bd. No.	No.	Other Identifica-	Year Built	Replaced	Code
Component	Mfr.	WU.	50. 110.	1	tion		01	Stamped
							Replace-	(Yes or No)
				-		+		
Blowdown Piping	Bechtel					1975	Replaced	Yes (N/A)
	Fluor					1992	Replacement	No
				1			Replacement	Yes
	1	<del>                                     </del>		1			1	
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NOTE: Supplemental sheets in form of lists, exerches or drawings may be used provided in juste a bit in ... It is not the standard of the standard and the standard and the standard and the standard and the standard form.

1. Owner

2. Plant

Northeast Nuclear Energy Company

Date 1/08/93

Waterford, Connecticut

Sheet 2 of 4

(Address)

3. Work Performed by

Millstone

(Name)

Unit Two

Waterford, Connecticut

(Address)

Fluor Constructors

(Name) Irvine, California Fluor Constructors

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

M2-92-10672 M2-92-01611

(Address)

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

- 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.
- 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.
- 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.	Mirs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identifica- tion	Year Built	Repaired, Replaced or Replace- ment	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-B	N/A		2-MS-455B	1992	Replacement	Yes
4"-Gate	A-D	-7-9	N/A		2-MS-456B	1992	Replacement	Yes
47-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-

Northeast Nuclear Energy Company 1. Owner

Date 1/08/93 (Name)

Sheet 3 of 4

Fluor Constructors

· Repair Organization P.O. No., Job No., etc.

Unit Two

Waterford, Connecticut (Address)

2. Plant Millstone

[Name]

Waterford, Connecticut

(Address)

Fluor Constructors 3. Work Performed by

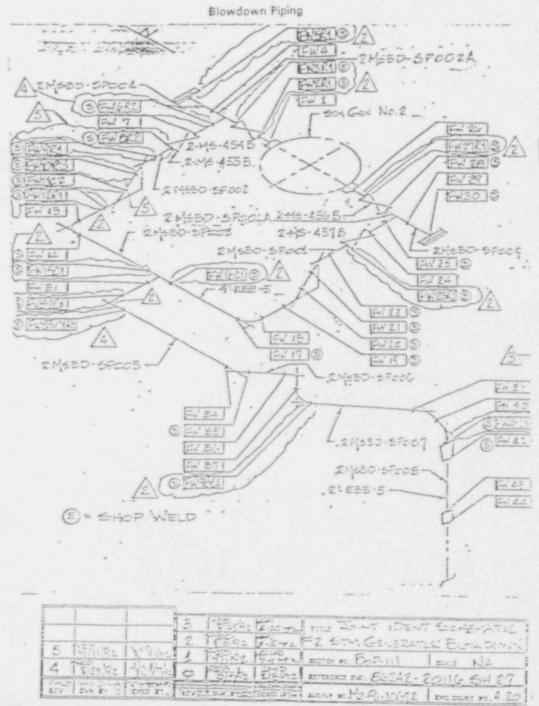
(Name)

Irvine, California

(Address)

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

FIGURE



1. Owner

Northeast Nuclear Energy Company

Date 1/08/93

(Name)

Waterford, Connecticut

Sheet 4 of 4

[Address]

Milistone

Unit Two

2. Plant

(Name)

Waterford, Connecticut

(Address)

Fluor Constructors

Fluor Constructors

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

(Name)

Irvine, California

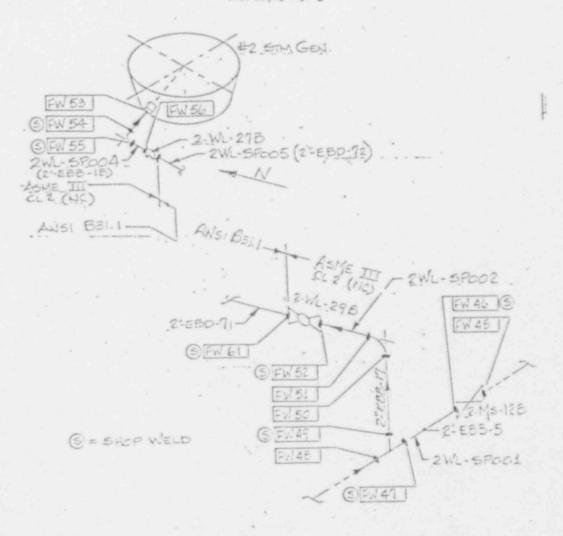
(Address)

3. Work Performed by

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

#### FIGURE

Wet Layup Piping



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	=2 envious Elemberal Evilet Lailed	
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EV EN POLICE AT	1 Acres 40, M2 91-10/02   Except 40, 4.20 F	33 2

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

Pr. \_\_\_\_ cf \_\_\_\_

	d certified by Anchor	LPMB	PAGE BETTER BETTER BOTH	ALC PER INJURIES PROPERTY OF THE PERSON	CBMC3	
Manufacture to	Fluor Construct	tors Internati	ional, In	c., P.O. B	ox 575,	Waterford, 1
		(masses area	accommon of Purc	header or Charment		
Location of incom	Millstone No	uclear Power :	station,	Kope Ferry	KC., K	t. 155, Wate
			L'HOURIE BING E	chdreen./		
Model No., Series	No., or Type FW	Drawing .	W9123593	Rev	В	CRN
ASME Cook Sec	roon III, Division 1:	1986	****		2	
		(adsone)	(accomme away	(CAM		(Code Case No.)
Purrip or views	Valve No	menes invert size	4"	Dutiet size	416	
		68105	(in.)	5 5 21 E UCD	(in)	NZA
Material Body	5A215-WCB 80	SA105	Desk_	SA216-WCB	Bottong	N/A
		* 1				
(a)	(b)	(c)		(d)		(e)
Cart	Nett	Bod		Bonnert		Disk
Piolaer's	Board	Seru		Senai		Seria
- Serial No.	No.	No.		No.		No.
-T022-7-3	N/A	. U629		. 3		5
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	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IN COL					
			-	****		

This form (\$000000) may be prosensed from the Crose Dect., ASME, 20 Law Drive, Sox 2000. Farrises, No 00000 0000.

(12.25)

<sup>\*</sup>Supplemental enginetion in form of Rets. sciences, or provings may be used provided (1) size is 8 % × 11, (2) information in name 1 through a principal Cata Record or incruded on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of the form.

. Remarks4"-	600#-FW Yalve	for E-T022-7,	Gasket Retai	ner SA515-	70
Design conditions Cold working pressure	( br.emeric.en	pei = 100°F	f or valve	pressure class	600
		Diek differential text pr	HERFE	1628	P
			5 - 1 1/4		
		CERTIFICATION OF			
esign Specification car exign Report cartied (	Theron C.	T. Roberts Bartlett II	P.E. States Cor	A Reg	PE-039036-
the ASME Cook Sec	con III. Division 1.	eport are correct and the		conforms to the	
Certificate of Authors	ZEDON NO	- Malue Co			
878 7 72	Name <u>Enchory</u>	arling Valve Co	ELLETY Signed	(authorized red	The Kare
		CERTIFICATE OF SHO	PINSPECTION		
the uncersigned ha	+ Pennsylv	usion assumed by the Nat ania	consi Board of Boile and employed by	CHEMETCIE!	unich ins. Up
-791 Am 4	on. Mass. 1-7. 19 92,	have industrial to the bearing with the ASME Con	sected the pump, or at of my knowwedge	valve, cascribed and belief, the	in this Data Report t
omponent described	in this Data Report F	ector nor his employer furthermore, herther the class channe kind arrang	inspector nor his en	nowayer shad be i	sow in any manner !
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The second second second second second	Charles	7/			

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	*	Mr	-	-	100.0	-	activities between
		40.	-	-			

1. Manufactured and carr	afied by Anchor/Dar	ling valve co.,	Of N Certificate Holder)	illemsport, PA 17701
F10	uor Constructors	International, In	nc., P.O. Box 575,	Waterford, CT 06385
2. Manufactured for		(name and address of Pun	crusser or Owner)	a acc Natarions C
3. Location of installation	Millstone Nuclea	r Power Station,	Rope Ferry Ko., 1	Rt. 156, Waterford 355
		\$100 mm	Annual an	
4. Model No., Series No.	, or Type FW	Drawing W9123593	Rev.	CRY ***
	III Division 1: 19	RE	. 2	
5. ASME Code, Section	III, Division 1:			(Code Case no.)
6. Pump or valve Va	Tye Nominal in	let size 4"	Outlet size 4"	
		(in.)	(in.)	
7. Material: Body SA	216-WCB Bornet _	SA105 Disk	SAZ16-WCB Boton	N/A
(2)	(b)	(c)	(d)	(e)
Cart	Nat'l	Body	Bonnet	Disk
Holder's	Board	Senzi	Serial	Senal No.
Serial No.	No.	No.	No.	
E-T022-7-10	N/A	U6295	10	55
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And the second s		****		

(12/85)

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

<sup>\*</sup> Supplements information in form of lists, sketches, or drawings may be used provided (1) size is 8 H, × 11, (2) information in name 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.

. Remarks				
Design conditions	(procedure)	psi 600 (temperatura) psi at 100°F	eF or valve pressure class 600	
	0005	Disk differential test p	1628 ·	ps
		CERTIFICATION C		- 1
Design Specification or Design Report cartified	to Theron C	th T. Roberts . Bartlett II	P.E. State Connecticutes, no. 16 P.E. State PA Reg. no. PE-0	915 39036-E
AND THE PERSON NAMED AND PARTY OF TH				
		CERTIFICATE OF SHO	PCOMPLIANCE	
		report are correct and t	hat this pump or valve conforms to the rules for co	resouction
of the ASME Code, Se	epon III, Division 1.	.77.5	Expires 4-15-95 COMDANY Signed Herry Q. Lauronand representatives	
of the ASME Code, Sa	epon III, Division 1.	.77.5	4-15-75	
of the ASME Code, Sa	epon III, Division 1.	.77.5	COMDENY Signed Hery Q. Heronicon representatives	
of the ASME Code, Se N Certificate of Author  4-15-92  Data  1, the undersigned, I the State MACHENICA  61  201  201  201  201  201  201  201	Name Anchor/ Name Anchor/ Name Pennsy ton. Mass.	Darling Valve ( (N Caroficete Hosper)  CERTIFICATE OF SH mission issued by the N I vania have i	Expires 4-15-95  Company signed Hery Q. Buch  Lauronne recessions  (auronne Vessel Ins.  and employed by Commercial Union 1  napecied the pump, or valve, described in this Day best of my knowledge and belief, the Certificate	pectors and ns. Co.
I, the undersigned. It the State MACHENIA.  1. The undersigned. It the State MACHENIA.  21 29/16 Constructed this purious signing this certification.	Name Anchor/ Name Anchor/ Name Anchor/ Name Pennsy ton. Hass.  1-20. 19 92.  Toron reverse in according a reliment pennsy.	Darling Valve ( IN Caroficete Hooder)  CERTIFICATE OF SH mission issued by the I l vania have i and state that to the reside with the ASME (  respector nor his employ	Company signed Hery Q. Buch	percers and ns. Co. ta Report on Holder has

(1) For manually operated varves only.

		THE RESIDENCE		1//11/sweens D1
Manufactured and a	remitted by Anchor/Da	rling Valve Co.,	701 First Street	, Williamsport, PA
		(name and accre	ss of N Carolicate Holder)	Probablication of occ
Manufactured for F	luor Constructors	International In	nc., P.O. Box 5/5	. Waterford, CT 063
		Iname and address of P	urchaser or Owner)	D+w 155 Ustorfo
Location of installa	tion Millstone Nucl	lear Power Statio	n, Kope Ferry Ku.	, Rtr. 156, Waterfo
		T. Strengton St.	NE RESIDENCE	
Model No., Series	No., or TypeGB	Drawing W912359	1 Rev. A	CRN
. ASME Code. Secti	on III, Division 1:19	The state of the s	F(a) (C(ass)	(Code Case no.)
		William III	211	
. Pump or valve	Valve Nomina	l inlet size 6n.1	Outlet size	(in.)
	chair vice		AMS-5387 Bo	tong N/A
. Material: Body L	SA216-WCB Bonnet	D15	K and an arrange of the State o	Tallia aprilation
		100	(d)	(e)
(a)	(5)	(c) Body	Bonnet	Disk
Cert	Nat'l	Serial	Senal	Serial
Holder's	Ecard	No.	No.	No.
Serial No.	No.	3639	N/A	Heat 1737
-T022-5-1	N/A	3640	N/A	Heat 1737
-T022-5-2	N/A ·	3644	N/A	Heat 1737
-T022-5-3	N/A	3651	. N/A	Heat 1737
-T022-5-4	N/A N/A	3646	N/A	Heat 1737
-T022-5-5	- N/A	3647	- N/A	Heat 1737
-T022-5-6	N/A	3548	N/A	Heat 1737
-T022-5-7	N/A	3641	- N/A	Heat 1737
-T022-5-8	11/1			
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This form (ECCO27) may be obtained from the Order Dept., ASME, 22 Law Drive, Ecs 2300, Fairfield, NJ 07007-2300,

(12/25)

<sup>\*</sup>Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is \$% x 11, (2) information in Items 1 shough 4 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the too of this form.

8. Remarks 2"-1878#-GB for E-T022-5 1878 \*F or valve pressure class .. (pressure) 4635 10. Cold working pressure \_\_\_\_ 6975 psi. Disk differential test pressure 11. Hydrostatic test ... CERTIFICATION OF DESIGN Design Specification certified by Kenneth T. Roberts P. State ConnecticutReg. 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. N1712 N Certificate of Authorization No..... Date 1-30-92 Name Anchor/Darling Valve Company Signed Mary D. Larcon (N Caroficana Holder) CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State & XXXXX of Pennsylvania and employed by Cormercial Union Ins. Co. have inspected the pump, or valve, described in this Data Record on 2-//8, 19 97 and state that to the best of my knowledge and bellef, 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 procesty carrage of a loss of any kind arising from or connected with this inspection.

Pennsylvania 2392
[Natt. Be. line: anozraemental state or prov. and no.)]

(1) For manually cherated valves only.

	Anchor/Darl	ing Valve Co., 70	01 First Street,	Williamsport,
Manufactured and certifi	ed by	. Iname and address	of N Carpficate Holder)	
P5	Constantant	International Inc	P.O. Box 575.	Waterford, CT
Manufactured for 1100	r constructors	Iname and address of Purc	haser or Owner) -	
	Manager Burgle	ar Power Station.	Robe Ferry Rd	Rtr. 155, Wate
Location of installation ,	Milistone Rucie	ar Power Station,	eddress)	0
74.73		W0123592	A	CRN
Model No., Series No., t	or Type DD	_ Drawing #3123332	Flex.	
ASME Code, Section III	. Division 1: 1986	Man and the Control of the Control o	(c/258)	(Code Case no.)
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Pump or varve Vali	VE Nominal in	niet sizh	Outlet size	n.) .
		CADIC VICE		nng N/A
Material: Body SA2	15-WCB Bonnet	SA216-WCB Disk	Eoh	ong
(2)	(b)	(c)	(d)	(e)
Cert	Nat'l	Body	Bonnet	Disk
Holder's	Board	Serial	Senal	Serial
Senal No.	No.	No.	No.	No.
	N/A	1743	2102	Heat 9563
A503-5-29 · -	N/A	1747	1573	Heat 9563
A503-5-30	18/15			
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As Required by the Provisions of the ASME Code, Section III, Division 1

<sup>\*</sup>Supplemental information in form of lists, skatches, or drawings may be used provided (1) side is 8 % × 31, (2) information in hims 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.

化工作的 医电子电子 化二甲基甲烷 电压力 化化二 2"-1700#-DD for E-T022-6 \*F or valve pressure class 1700 3425 (pressure) 4618 .. psi. Disk differential test pressure ... . CERTIFICATION OF DESIGN P.E. State Connecticutaes, no. 16915 Design Specification certified by Kenneth T. Roberts 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 Coce. Section III, Division 1. Expires \_\_\_\_ 4/15/92 N Certificate of Authorization No.\_\_\_\_ Date 1-30-92 Name Anchor/Darling Valve Company signed Blary A. Janear (N Caroficate Holder) CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Ediler and Pressure Vessel Inspectors and the State XXXXXXX of Pennsylvania and employed by Commercial Union Ins. Co. have inspected the pump, or valve, described in this Data Record on 39-88160-246 19 92, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this cump, or valve, in accordance with the ASME Code, Section III, Division 1. By signing this ceroficate, 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 carriage of a loss of any kind arising from or connected with this inspection.

(1) For manually operated valves only,

. Owner	No	rtheast Nucle	ar Energy C	pmpany	1	Date 1/08/9	3	
	Wa	sterford, Con	necticut		5	Sheet 1 c	1 4	
Plant		(Address) listone (Name)				Jnit Two		
Work Perfo		(Address) Fluor Const (Name) Irvine, Calif	tructors		Î	Fluor Constru Repair Organizat M2-92-1067 M2-92-0161	ion P.O. No., Job N 2	o., etc.
Identification	n of Syste	em <u>Stean</u>	n Generator	#1 - Blo	wdown Pipi	<u>ng</u>		
(b) Applica	able Edition	ruction Code n of Section aponents Rep	XI Utilized for	or Repair	s or Replace	ments-19 <u>80</u>	. 81W Addenda	, Code Cas
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identifica- tion	Year Built	Repaired, Replaced or Replace- ment	ASME Code Stamped (Yes or No)
Blowdown Piping	Bechtel					1975	Replaced	Yes (N/A)
	Fluor					1992	Replacement	No
							Replacement	Yes
. Tests Con	ducted: Hi Pr See attac	See Attac ydrostatic  ressure 1250 hed sheet fo pplicable Manuf	Pneumatic psi Test r valves acturer's Data	Reports to	be attached)	ANCE	nent_conform	s to Sectio
of the ASME		Elm .	Title (	Ey	(Date)	strepsir or e	/0_,19_9	3

(Inspector) (Inspector) (State or Province National Board)

NOTE: Supplemental sheets in form of lists, excitones or drawings may be used provided (1) size is 8 is in × 13 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.

1. Owner

Northeast Nuclear Energy Company

Date 1/08/93

Waterford, Connecticut

Sheet 2 of 4

(Address)

Millstone

Unit Two

2. Plant

(Name)

Waterford, Connecticut

(Address)

3. Work Performed by

Fluor Constructors

(Nexue) frvine, California Fluor Constructors Repair Organization P.O. No., Job No., etc.

M2-92-10672 M2-92-01510

(Address)

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.
- Bechtel field installation was NA stamped in accordance with ASME Section III, 1971. Dravo spool pieces 6. 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.
- 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 Identifica- tion	Year Built	Repaired, Replaced or Replace ment	ASME Code Stamped (Yes o: 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	1	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

1. Owner

Northeast Nuclear Energy Company

Date 1/08/93

(Name)

Waterford, Connecticut

Sheet 3 of 4

(Address)

Unit Two

2. Plant Millstone

(Name)

Waterford, Connecticut

(Address)

3. Work Performed by Fluor Constructors

(Name)

Fluor Constructors

Repair Organization P.O. No., Job No., tc.

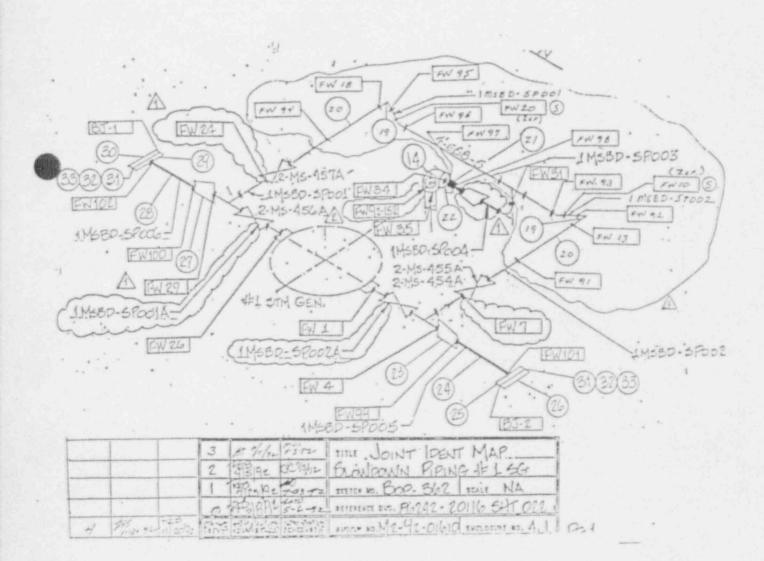
Irvine, California

(Address)

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

FIGURE

#### Blowdown Piping



1. Owner

2. Plant

Northeast Nuclear Energy Company

Date 1/08/93

(Name)

Waterford, Connecticut

Sheet 4 of 4

(Address)

Millstone

Unit Two

((Vame) Waterford, Connecticut

(Address)

3. Work Performed by Fluor Constructors

(Name)

Fluor Constructors

Irvine, California

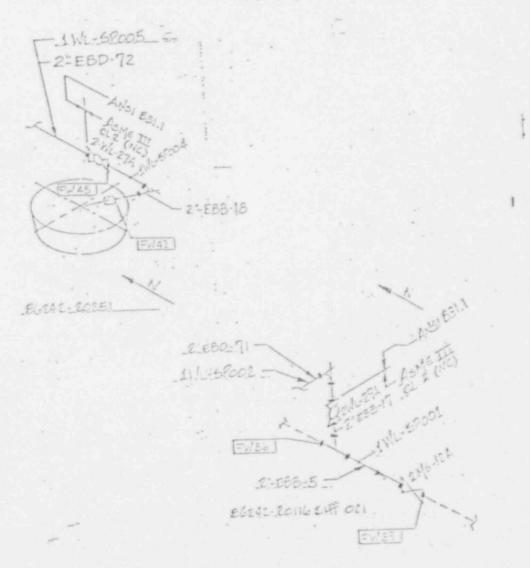
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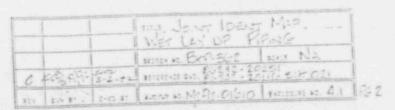
(Address)

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

FIGURE

Wet Layup Piping





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

Pg. \_\_\_\_ cf \_\_\_

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	luor Constructor	s International,	Inc. P.O. Box 5	75. Waterford (
Manueractures for _		Comments are a sufference and B	amplement at Oseanari	
Location of inscalars	Millstone Nucl	ear Power Station	, Rope Ferry Rd.	, Rt. 156, Water
Provide Chip L to a service 2	A.R.1	Chapter or	e eddrees/	The second secon
Model No., Sense N	o, or Type Fx	Drawing W912359	3 Rev. B	CRN
ASME COOK Section	n III, Division 1:	1986	more and a second	***
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Purtip or varies	alve Norme	eniert size. 4	Outlet size4"	(m.)
	0215_WFB -		SA216-WCB B	and the second
Meteries Body S	A216-WCR Bonnet	Dask	BC	otorsg N/A
(a)	(b)	(c)	(d)	(e)
Cert	Net	Borry	Bonnert	Dist
Hotoer's	Board	Serial	Serial	Sena
Series No:	No.	No.	No.	No.
T022-7-3	N/A	. U6291	2	5
T022-7-	N/A	U6292	- 4	7
T022-7-5	N/A	U6293	5	٥
T022-7-5	N/A	U6294	6	0
T022-7-7	N/A	U6297	7	0
T022-7-8	N/A	U6298	Ε	3
1022-7-9	N/A	U6300	.6	4
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<sup>\*</sup> Supplemental andmurpor in form of lists, skietches, or drawings may be used provided 111 size is 8 % × 11, (2) información in nama 1 dirouch 4 on this Data Records included on each sheet. (2) each sheet is numbered and the humber of sheets is recorded at the top of this

. Flaments	4*-500#-F# Valve				
). Design conditio	(pressure)	(Contragnol consumer)	*F or valve	buseans case	600
Cold working pre     Hydrostatic twice	2225 D	pei et 100°F	ESS.8'S	1628	P
		CEXTIFICATION OF	FDESIGN		
Sesign Specification Sesign Report card	Theron C. B	T. Roberts Partlett II	P.E. Startes CO	PA Reg.	16915 PE-039036-
	cz	RTPACATE OF SHOP	COMPLIANCE		
	catements made in this rep Section III. Division 1.	on are correct and the	et this purie or varve	conforms to the ru	see for construction
of the ASME Cook.	Section III. Division 1.	2		Expires 4/15	/92
of the ASME Cook.	Section III. Division 1. Norte on No. N171 Name Anchor/Dar	2 -Ting Valve Co	mpany signed 2	Expires 4/15	/92
t the ASME Cook. Coroficers of Aug. Data 4-3-92	Section III. Division 1. Name Anchor/Day IN Ca	2  Ting Valve Co	INSPECTION	Expires 4/15  Any D. Lan  (ausnomised representations)	/02 CATU
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the uncersioned the State between the State between the state between the surface the state of the surface the state of the surface the state of the surface the s	Name Anchor/Dar  Name Anchor/Dar  Noticing a valid community of Pennsylvan  Ston., Mass. 4-7, 19 9.2 and  The or varies in accordance  The or varies in accordance  The or varies in accordance	2  Pling Valve Co  Purcase Powers  ERTP-CATE OF SHOP  on assued by the Nati ila  have inspected a with the ASME Caco  tox now his employer in	INSPECTION  Inspec	e and Pressure Verding recital Universe described in and bever, the Country, expressed or improve	saw Inspectors and ion Ins. Co. tras Data Report on roticate Holest has
the ASME Cook.  N Ceroficate of Am  Date 4-3-92  It the undersigned the State BARRAGE  Of 7-91 The constructed the out  Ev signing this care component description	Name Anchor/Dar  Name Anchor/Dar  IN Ca  Noticing a valid community of Pennsylvan  Ston, Mass.  4-7, 19 9.2, and  me, or varve, in accordance	ERTOPICATE OF SHOP on assumed by the National States that to the bell a with the ASME Cool for not his amplifier the said change in the said chang	INSPECTION  INSPECTION  IONAL BOARD of Boile and employed by Metted the oump, or st of my knowledge e. Section III. Division  INSPECTOR FOR his em	Expires 4/15  214 D. Laz  (authorized representation of the Central Control of the Central Control of the Central Control of the Central Control of the Central of the Cent	same Inspectors and ion Ins. Co. the Data Report on roficate Holder has been concerting the se an any manyer for

(1) For manually operated valves only.

Manufactured an	d carofied byAnchor/D	arling Valve Co.,	/UI FIRST St., WI	Hillamsport, PA
	Fluor Constructor	s International,	Inc., P.O. Box 575	
		Iname and address of P.	, Rope Ferry Rd.,	
Location of instal	LEDON FITTI S COME NOCE	A RESIDENCE OF THE PROPERTY OF	of accress	
	No., or Type FW		3 Rev	CRN
MODEL NO., Server				
ASME Coce, Sec	Partition of the Partition of Statement of S	1986	- 2	****
		arban) (adoknda 6)	* 11	(Code Case no.)
. Pump or vaive	Valve Nomina	i inlet size 4	Outlet size 4	.)
. Material: Body	SA216-WCB Bonner		SA216-WCB Borbs	N/A
(2)	(b)	(c)	(d)	(e)
Cert.	Nat'l	Body	Bonnet	Disk
Holder's	Board	Senai	Serial	Senal
Serial No.	No.	No.	No.	No.
E-T022-7-10	N/A	U6295	10	5
- 104	Andrew Control of the			
		/		
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			***************************************	
		-		
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			Marie and Company of the State	
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As Required by the Provisions of the ASME Code, Section III, Division 1

<sup>\*</sup>Supplemental information in form of lists, salestimes, or drawings may be used provided (1) size is 8% × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is humbered and the number of sheets is recorded at the top of this form.

8. Remarks C"-{	500#-FW Valve for E-T022-7	, Gasket Retainer SA515-	-70
	1095 psi 600 (pressure) (temperature 1480 psi at 100°F	eF or valve pressure class	600
Hydroststic test	2225 psi. Diak differendal test	pressure 1628	ps
	CERTIFICATION	OF DESIGN	
Design Specification cert Design Report certified b	Kenneth T. Roberts Theron C. Bartlett II	P.E. State PA Res	no. 16915 PE-039036-1
	CERTIFICATE OF SHO	that this pump or valve conforms to the	
N Certificate of Authorize  4-15-92  Date	en III. Division 1.  Proon No	Company Signed Hary Q. O	Person Designation
	CERTIFICATE OF SH	ICP INSPECTION	
of		napected the pump, or valve, described best of my knowledge and belief, the	Uniton Ins. Co. in this Data Report on
constructed this pump.	or valve, in accordance with the ASME C	oce, Section III, Division 1.	
Ex signing this carolina	ts, neither the inspector nor his employe	er makes any warranty, expressed or i	mplied, concerning the
	Data Report, Furthermore, neither to		
	poerry daprage of a loss of any kind ansi		
Dere 4-20-92 5	of South Grone	Commissions Pennsylvani	
	as sheromend program /	[Nat I. Bd. (inc. encorsemen	YES! STATE OF DEDY AND NO

(1) For manually operated varves 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

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	m 4	

Manufactured and certified by	Anchor/Darling Valve Co., 701 First Street, Williamsport, FA 1	77	0 1
	iname and appress of N Ceruficate Molder!		

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

3. Location of installation Millstone Nuclear Power Station, Rope Ferry Rd., Rtr. 156, Waterford, C

Serial

No.

Serial

No.

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

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

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

7. Material: Body SA215-WCB Bonnet N/A Disk AMS-5387 Bottong N/A

(a) (b) (c) (d) (e)

Cert. Nat'l Body Bonnet Disk

Serial

Epard

-T022-5-1	N/A	3639	N/A	Heat 1737
-T022-5-2	N/A	3640	N/A	Heat 1737
-7022-5-3	N/A	3644	N/A	Heat 1737
-1022-5-4	N/A	3651	N/A	Heat 1737
-1022-5-5	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

Holder's

Serial No.

<sup>\*</sup>Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8% 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.

, Remarks 2"-				
Design conditions  Cold working pressu			F or valve pressure of	1878
. Hydrostatic test	6975 psi.	Disk differential test pres	5101	ps
		CERTIFICATION OF D	ESIGN	
Design Specification of Design Report certified	by Theron C.	h T. Roberts Bartlett II	P.E. State Connecticut P.E. State PA	Reg. no. <u>16915</u> Reg. no. <u>PE-039036-E</u>
		CERTIFICATE OF SHOP CO	OMPLIANCE	
of the ASME Code, Se	ction III, Division 1.	N1712	this pump or valve conforms to	4/15/92
of the ASME Code, Se V Certificate of Author	ction III, Division 1.	N1712	expires	4/15/92
of the ASME Code, Se V Certificate of Author	ction III, Division 1.	N1712	Expires	4/15/92
the ASME Code. Se N Certificate of Author Date 1-30-92  I, the undersigned his the State 882 803 803 of Boston. 2-90-9000000000000000000000000000000000	Name Anchor/E  Siding a valid comm Pennsyl Mass. 2-/8, 19 92	N1712  Darling Valve Common Common Valve Holder)  CERTIFICATE OF SHOP II  Issign issued by the Nation Vania	Expires	### Vessel Inspectors and all Union Ins. Co
I, the undersigned he boston.  2-90-90000  Expression this pump by signing this cerufic	Name Anchor/E  Anchor/E  Mass.  2-/8, 19 92  or valve, in accord  in this Data Report.	N1712  Darling Valve Composition of Caronicate Holder)  CERTIFICATE OF SHOP III Ission issued by the Nation Vania and state that to the best ance with the ASME Code.	Expires	### Vessel Inspectors and all Union Ins. Co bed in this Data Report on the Certificate Holder has be liable in any manner for ection.

(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

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- Del 100	m.1	
F 25 1 W	announce No.	- Billiatic accounts which

1. Manufactured and	Ancho	r/Darling Va	alve Co., 7	01 First Stre	et, Williamsp	ort, PA 17701
			SDBITTE BING BOOKERS	Off to Petersine ere commen		
2. Manufactured for	Fluor Constru	ctors Intern	ational Inc	., P.O. Box !	575, Waterford	, CT 06385
		iname	and address of Puri	COLUMN THREE TO COLUMN THREE IN THE		
3. Location of installa	Millstone	Nuclear Pow	er Station,	, Rope Ferry I	Rd., Rtr. 156,	, Waterford, C
3. Location of Installa	iuon		(name and	BCC(658)		06385
4. Model No., Series	No. or Tune	DD Drawi	ng W9123592	Rev. A	CRN	
A. Migdel No., penes	No., or type					
5. ASME Code, Secti	ion III Division 1:	1986		2		-
S. Maint Succ. Sec.	and the second of the	(edition)	laddenda date	(class)	2" Coce Case	no.3
6. Pump or varve	Valve 1	Nominal inlet size	2"	Outlet size	AND DESCRIPTION OF THE PARTY OF	
			(in.)	*WC 5007	fin.1	
7. Material: Body	SA216-WCB	Bonnet SAZ16-1	WCB Disk	AMS-5387	Borting N/A	
(a)	(b)		(c)	(d)	(e)	
Cen.	Nat'l		Body	Bonnet	Disk	
Holder's	Epard		Serial	Serial	Serial	
Serial No.	No.		No.	No.	No.	
E-A503-5-29	N/A	1	743	2102	Heat 956	3
E-A503-5-30	-N/A	- 1	747	1573	Heat 956	3
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<sup>\*</sup>Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 % × 31, (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	101 1 1022 0		Contraction with the second second	-
					1,-1
9. Design conditions	3425 (pressure)	ps) 600 (temperature)	*F or valve press	sure class 1700	
Cold working pressure	• 4198	psi at 100°F			
. Hydrostatic test	6300 psi (	Disk differential test p	ressure 4618		p
	**				
		CERTIFICATION C	F DESIGN		
Design Specification cen Design Report certified b	tified by <u>Kenneth</u> by <u>Theron C. E</u>	T. Roberts Bartlett II	P.E. State Connect P.E. State PA	ticut <sub>Reg. no.</sub> 1691 —— Reg. no. PE-039	5 9036-E
		ERTIFICATE OF SHOP	COMPLIANCE		-
of the ASME Code Ser	ments made in this re		nat this pump or valve conf		struction
of the ASME Code, Section of the ASME Code, Section of the Authorizate of Authori	ments made in this re tion III, Division 1.	N1712		4/15/92	struction
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of the ASME Coce. Section of the ASME Coce. Section of Authorization of Au	ments made in this retion III. Division I. ration No  Name Anchor/Da IN C	N1712  rling Valve Co  teroficate Holder)  CERTIFICATE OF SHO	DE Expire  De Inspection  Italiana Eoura of Boiler and and employed by Comm	4/15/92  A. Bratul  uthonzed representatives  Pressure Vessel Insper hercial Union In	rtors and
of the ASME Coce. Section of the ASME Coce. Section of the ASME Coce. Section of the Asmediate of Authorization of Authorization of Asmediate Section of Asm	ments made in this retion III. Division I. ration No Name Anchor/Da IN C	N1712  rling Valve Co conficere Holder)  CERTIFICATE OF SHO	DE INSPECTION  Italian and employed by COMM  Inspected the pump, or valve	A/15/92  A. Assorb  uthonzed representatives  Pressure Vessel Inspection In Inc., described in this Data For the Control of th	mors and S Cr
I, the undersigned, hold the State XXXXXX of Boston, My-39-88///12-2	ments made in this retion III. Division 1. tation No  Name Anchor/Da INC  ding a valie commiss Pennsylva lass.  6, 19 91, ar	N1712  rling Valve Commonter Holder)  CERTIFICATE OF SHO	DE Expire  De Inspection  Italiana Eoura of Boiler and and employed by Comm	A/15/92  A. Association  A Pressure Vessel Inspection  A cescribed in this Data F  belief, the Certificate H	mors and S Cr
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(1) For manually operated valves only.

	No	Theast Nucle	ar Energy C	ompany		Date 12/0	1/92		
	<u>v</u> va	(Name) iterford, Con	necticut			Sheet 1 of 3			
Plant	Mil	(Address)				Unit Two			
	Wa	(Name) sterford, Con	necticut						
Mind Davis		(Address) Fluor Const				Fluor Cons	tructors		
Work Perfo		(Name) Irvine, Calif (Address) em Steam	ornia	#2 - Ma		Prepair Organ 172-9	izetion P.O. No., Job No. 7 - 01769 56 92 - 00593 672 - 073145	RPZOK	
(b) Applic	able Edition	ruction Code n of Section ponents Rep Mirs. Ser. No.	XI Utilized for	or Repair	s or Replac	ment Comp	Repaired, Replaced or	ASME Code Stamped	
							Replace- ment	(Yes or No)	
Piping	Bechtel	2103				1975	Partial Replaced	Yes (NA)	
	Dravo				EBB-2-B	1974	Partial Replaced	No	
	Connex	42171				1902	Replacement	Yes	
	Fluor					1992	Replacement	No	
. Descriptio	n of Work	See Attac	Degramatic	Kleeni	nal Constation	on Prace ira	Other - SEE	ATTACHN	
7. Descriptio 8. Tests Cor 9. Remarks	NPP-1 for	ydrostatic 🖊 essure 125	Preumatic OF psi Te ecturer's Date	Reports to	be ensched)		_ Other SEE	ATTACHM	
8. Tests Cor 9. Remarks We certify the of the ASME Signed Course	NPP-1 for (A)  Nat the stat Code.  Provinces	essure 125 42171 pplicable Manuf ements mad	Pneumatic 0°F psi Te ecturer's Date  CENTIFIC e in this report Tale  CERTIFIC commission	ATE OF	be ettsched)  COMPLI  prect and t  (Dete)  COMPLI  by the Nati	ANCE his lepair	17 L	sure Vesse	

(Inspentor) ANN (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or dravings may be used provided (1) size is 8 ½ in ix 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.

1. Owner

Northeast Nuclear Energy Company

Date 12/01/92

(Name)

Waterford, Connecticut

Sheet 2 of 3

(Address) Millstone

Unit Two

2. Plant

(Name)

3. Work Performed by

(Add Jee) Fluor Constructors

Fluor Constructors

(Name) Irvine, California

(Address)

Waterford, Connecticut

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.

1. Owner

Northeast Nuclear Energy Company

Waterford, Connecticut

(Address)

2. Plant

Milistone (Name)

Waterford, Connecticut

(Address)

3. Work Performed by

Fluor Constructors (Name)

Irvine, California

(Address)

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

FIGURE

Date 12/01/92

Sheet 3 of 3

Unit Two

Fluor Constructors

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

3/4" NPT 4 E68-14 2-M5-260B FW3 WELD BY 54" EBB-2 # WELD'C \* MELDIO! \$,0. #715100-50-5000+-66) 11 并下本 五年升州五 女人的四日日五 21 47=2152 303147 42 1028 32 3. ++= 244142 VK 102542 41. ATE CHE- FEH. #3000 \$12 10 76 42

AMESS "B". C" & "D" DONE BY CONEX SEE SETCH & E-A

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

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

Pg. 1 of \_\_2

			* *		
. F	bricated forFluor_Constructo	rs internation	al, Inc. **		
	ocation of installation Millstone U	nit 2 SGRP **			
. 3	CENTRY DI INSCENSION LES LES CONTRE LE	22.20.00	(name and address of Pyrchaser)		
- 7	ype 42171 ICan Holosi x serial no l	N/A (CRN)	E4217-1 Rev. 2	N/A (Nati) Bo no i	1992 (**** built
	SME Code, Section III, Division 1:	1983 5	ummer 1984	2	N/A (Code Case no.)
	hop hydrostatic test N	/A	psi at		*F lif performed
	escription of piping Main Steam	See pa	ge 2 of 2		
	ertificate Holders' Data Reports properly i	densitied and sinned h	unnmissioned inspectors have	e hean furnished for t	he following items of the
	epon: Piece Mark Number:	715100-50-500	6KO #2.11	E ELECTION CONTRACTOR TO T	and the same of the same of the same
	*				
	lemarks: N/A				
	lemarks: N/A				
	temarks: N/A				
	lemarks: B/A				
	lemarks: B/A				
	temarks: N/A	CERTIFICATE	OF SHOP COMPLIANCE		
×	certify that the statements made in this n	The second secon	And the same of th	ribed piping subassen	ibly conforms to the rul
Ne		eport are correct and t	And the same of th	ribed piping subassen	nbly conforms to the ruli
We	certify that the statements made in this not construction of the ASME Code, Section I	eport are correct and t	has the fabrication of the descr	ribed piping subassen	nbly conforms to the rule
We	certify that the statements made in this not construction of the ASME Code, Section I	eport are correct and to the correct and the correct a	has the fabrication of the descr March 1, 1994		
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Neor	certify that the statements made in this not construction of the ASME Code, Section I	eport are correct and to the correct and the correct a	has the fabrication of the descr March 1, 1994		
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We or NP	certify that the statements made in this no construction of the ASME Code, Section I Certificate of Authorization NoN=  ### Connex P	eport are correct and to the correct and the co	March 1, 1994  TIC. Signed 7  OF SHOP INSPECTION and Board of Boiler and Pressured	Mark A. Hark	presentative)  i and the State or Provin
Ve or VP	certify that the statements made in this no construction of the ASME Code, Section I  Certificate of Authorization NoN-  e4-17-92_ NameConnex P  the undersigned, holding a valid commission of the connex P	in Expires  Systems I  The Systems I  The Systems I  The Combons Modern  CERTIFICATE  on issued by the National I  mployed by Allend	March 1, 1994  DC. Signed 2  OF SHOP INSPECTION onal Board of Boiler and Pressulate Mutual Insurant	Mark A. Hurk  teuthorized to see Vessel Inspectors ce Company, Fi	and the State or Proving actory Mutual
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This form (EDGC62) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

\*\* Pape Ferry Road, Foute 156, Waterford, CT 06385

<sup>\*</sup>Supplemental information in form of lists, sketches, or drewings may be used provided (1) size is 8 % × 11, (2) information in items 1 stirough 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 NPP-1 (Back - Pg. 2 of \_\_\_\_\_)

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# NPP-1 SHEET 2 OF 2

CONNEX CORNER Proc Systems, Inc. A money of the	Whatese Greez	SKETCH NUMBER
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SYSTEM 1 1 1 1 MAIN STEAM ISO NO TOTAL WT 67	SHOP CODE ST.	
AREA TOTAL WT. (2.3)	PC MK NO 315100 - 50 - 5000	× 2 11
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Connex Fige Systems, Inc.
1115 Crimar Street
Mariena
Chio 45750
Telephone 614 373 7541
Fax 614 373 8480
Twx 810 486 2606

#### SUMMARY PAGE - CMIR'S SKETCE E4217-1

ITEM #	HEAT #	SERIAL #	SERIAL #	DESCRIPTION
1	P18502	1	7	34" (.977" MW) SMLS PIPE SA106C
2	14065	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

	No	rtheast Nucle	ar Energy C	ompany	ı	)ate 12/9	V.1124	
	W	aterford, Con	necticut		5	Sheet 1	of <u>3</u>	
. Plant	Mi	(Address)			ι	Init <u>Two</u>		
	36/	(Name) aterford, Con	pecticut					
	2.5.	(Address)						
. Work Perfo	ormed by	Fluor Const (Name)	tructors			Repair Organ	structors lization P.O. No., Job	No., etc.
		Irvine, Calif	fornia			quo	12-92-017	
. Identification	on of Syst	(Address) em Stean	n Generator	#1 - Ma	in Steam		72-12-005	- Barrier -
							172-92-0731	4/36KP MA
(a) Annlin	able Const	ruction Code	ASME III 1	971 Edit	ion. No Add	enda, Cor	de Cases	
(b) Applica	able Editio	n of Section	XI Utilized f	or Repair	s or Replace	ments-19	80, 81W Addend	a, Code Cases
. Identificati	on of Com	ponents Rep	aired or Rep	placed, a	nd Replacem	ent Com	ponents	
Name of	Name .	Mirs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identifica-	Year Built	Repaired, Replaced	ASME Code
Component	Mfr.	au.	50.140.	110.	tion		or	Stamped
							Replace- ment	(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
and the second second second second		1						
7. Description	n of Work	_See Attac	hment Pneumatic	Nomi	nal Operating	Pressure	e_OtherSEE	ATTACHMENT
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of this form.

1. Owner Northeast Nuclear Energy Company

Date 12/01/92

Waterford, Connecticut Sheet 2 of 3

(Address)

Milistone

Unit Two

(Name)

Waterford, Connecticut

(Address)

3. Work Performed by Fluor Constructors

(Name)

Irvine, California

(Address)

Fluor Constructors

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

P12-92-01768 /SGRP 19431

MZ-92-00592 156RP 19 142-92-073141

2. Plant

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.

1. Owner Northeast Nuclear Energy Company Date 12/01/92

(Name) Waterford Connecticut Sheet 3 of 3

(Address)

2. Plant Millstone Unit Two

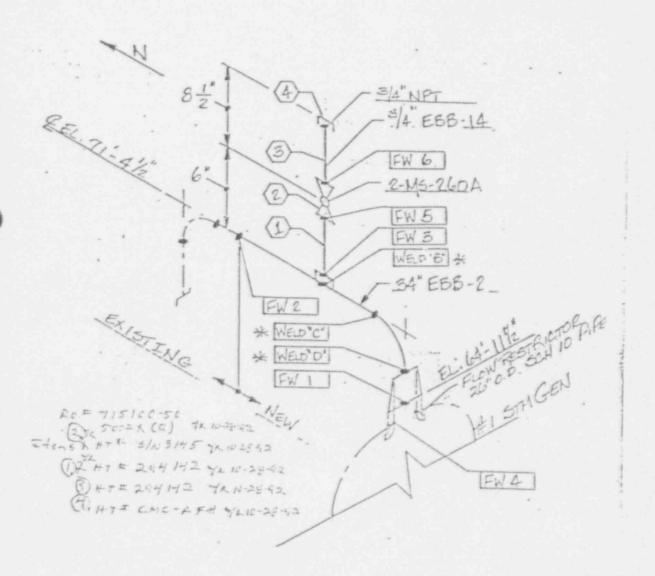
(Name)
Waterford, Connecticut

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

Irvine, California #2-62 - 0/2/ 9

A. Identification of System Steam Generator #1 - Main Steam #2-92 - 07314

FIGURE



\*WELDS "B", "C" ! D" PONE BY COUNEX SEE SHETCH # E-4217-23

## FORM NPP-1 CERTIFICATE HOLDERS' DATA REPORT FOR FABRICATED ". NUCLEAR PIPING SUBASSEMBLIES\*

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

Pg. 1 of \_2

1. F	abricated and certified by Connex Pipe Systems, Inc., 1115 Gilman Street, Marietta, Ohio 45750
5 E	abricated for Fluor Constructors International, Inc. **
4. 1	fname and address
3. L	ocation of installationMillstone Unit 2 SGRP **
4. 7	ype 42172 B/A E4217-2 Rev. 2 N/A 1992  (Cent. Holder's serial no.) (CRN) (Grawing no.) (Nati. 8d no.) (year built)
	1002
5. 4	SME Code, Section III, Division 1: [ed:(on) [ed:(on) ] [ed:(on) ] [ed:(on) ]
	N/A
0. 0	Shop hydrostatic test
7. 0	Description of piping Main Steam See page 2 of 2
	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. 1	Remarks: N/A
-	
1000	CERTIFICATE OF SHOP COMPLIANCE  certify that the statements made in this report are correct and that the fabrication of the described piping subassembly conforms to the rules
	이번에 가장 살아왔다. 그리고 그리고 있다. 그리고 있다. 그런 그리고
101	construction of the ASME Code, Section III, Division 1.
NP	Certificate of Authorization No. N-1320 Expires March 1, 1994
	e 4-17-92 Name Connex Pipe Systems, Inc. Signed Mark A 766
W. C.	[NPT Cartificate Honder]
	CERTIFICATE OF SHOP INSPECTION
1. 1	he undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province Ohio and employed by Allendale Mutual Insurance Company, Factory Mutual
01.	System of Norwood, MA have inspected the piping subassembly described in this
Day	ta Report on 4-77-92 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated this piping
	bassembly in accordance with the ASME Code, Section III, Division 1.
	signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the piping subassembly
	scribed in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or properly
	mage or a loss of any kind arising from or connected with this inspection.
Da	ite 4-17-92 Signed 82-1-00 Commissions On 10 [Nat   Bo (Incl. andorsaments) and state of prov. and no. 1
	[Authorizef Inspector] [Nat   Bo, lincl, and praements and state of prov. and no. ]

(12/88)

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

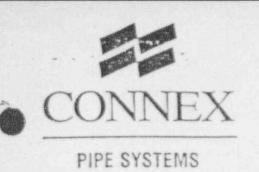
\*\* Rope Ferry Road, Route 156, Waterford, CT 06385

<sup>\*</sup>Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 % × 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.

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CERTIFICATE OF	FIELD FABRICATION COMPLIANCE	
certify that the statements on this report are correct and that		ng subassembly conforms with the rule
construction of the ASME Code, Section III, Division 1.		
PT Certificate of Authorization No.	Expires	
ate Name (Centicate Holder)	Signed	(authorized /ap/esentative)
(Cenificate Holder)		(authorized representative)
CERTIFICATE OF	F FIELD FABRICATION INSPECTION	
the undersigned, holding a valid commission issued by the h	National Board of Boiler and Pressure Ver	sel Inspectors and the State or Province
the undersigned, holding a valid commission issued by		
and employed by	data accompanie shie Data Da	now with the described ninion subsesser
of heve	e compared the statements in this Data he	port with the described piping subsesse.
y and state that parts referred to as data items	, not a	ncluded in the Certificate of Shop inspe
on, have been inspected by me on and the	lat to the best of my knowledge and belief	the Certificate Holder has fabricated to
ining whereambly in accordance with the ASME Code, Section	on III, Division 1.	
ly signing this certificate neither the inspector nor his employ	ver makes any warranty, expressed or im	plied, concerning the piping subassemi
escribed in this Data Report. Furthermore, neither the inspect	or not his employer shall be liable in any o	manner for any personal injury or prope
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damage or a loss of any kind arising from or connected with th	nis inspection.	
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Connex Pipe Systems. Inc. 1115 Guman Street Mariette Ohio 45750 Telephone 614,373,7541 Fax 614,373,6480 Twx 810,486,2808

#### SUMMARY PAGE - CMTR'S SKETCH E4217-2

ITEM #	HEAT #	SERIAL #	MIR 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-0-L SA105
5	AUE	-	5	CODE PLATE SA240 TP304

	(Name)					Date 12/03/92				
	Wi	(Address)	necticut			Sheet 1	of _3_			
, Plant	Mi	Millstone (Name)								
	Waterford, Connecticut (Address)					ord, Connecticut				
. Work Perfo	Work Performed by Fluor Constructors (Name) Irvine, California					Fluor Constructors				
					Repair Organization P.O. No., Job No., etc. California ALO M2-92-00637					
. Identificati	on of Syst	(Address) em Stean	Generator	No. 2 - I	Feedwater		172-92-01			
		-								
(b) Applic	able Edition	ruction Code n of Section iponents Rep	XI Utilized f	or Repair	s or Replace	ements-1980	81W Addenda	, Code Ca		
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identifica- tion	Year Built	Repaired, Replaced or Replace- ment	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		
. Descriptio	of comments of the	yorostatic 🗸	psi Test	Temp. 1	40°F	y riessure _	Other SEE	ATTACHM		
of the ASI	at the state	ements made	CERTIFIC	ATE OF	COMPLIA	nis Replan	confo	orms to Sec		
Ne certify the	NPP-1 (A)	ements made	CERTIFIC in this repo	ATE OF	COMPLIA	his Replace frepair or s	eplacement)	3		
Ne certify the ASI Towner  I, the under	at the state ME Code.  or Owner's I	ements made  Designee)  Iding a valid ate or Proving have ins	CERTIFIC in this report Tinh  CERTIFIC commission te of the	ATE OF	COMPLIA  Orrect and the COMPLIA  Ox the National Stackers  ox fackers  ox fackers	ANCE anal Board of memorical employed	eplacement)	3 Sure Vesse		

(Inspector) (State or Province, National Board)

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 ½ in. x 11 in.; (2) information in Items 1 through 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.

1. Owner

Northeast Nuclear Energy Company

Date 12/03/92

(Name)

Waterford, Connecticut

Sheet 2 of 3

(Address)

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)

M2-92-00637

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

m2-92 01771

- 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.
- 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 elhow outside of steam generator blockhouse (see attached sketch).

1. Owner

Northeast Nuclear Energy Company

Date 12/03/92

(Name)

Waterford, Connecticut

Sheet 3 of 3

(Address)

Millstone

Unit Two

2. Plant

(Name)

Waterford, Connecticut

(Address)

Fluor Constructors

(Name)

Irvine, California

(Address)

Fluor Constructors

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

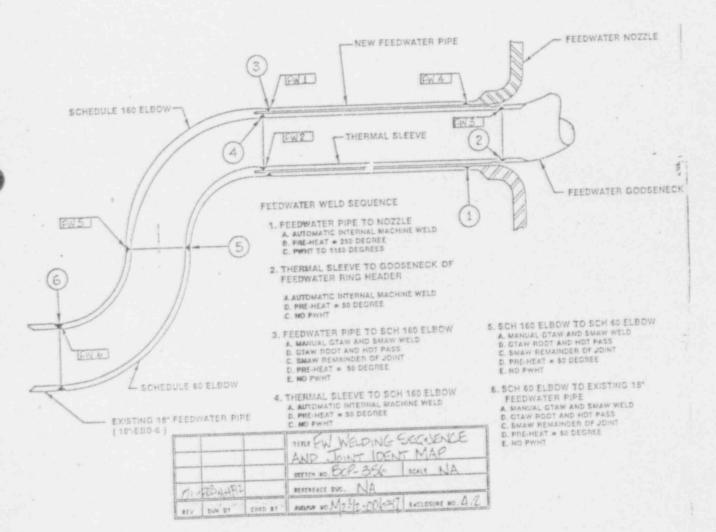
M2-92-00637

4. Identification of System

3. Work Performed by

Steam Generator No. 2 - Feedwater

#### FIGURE



made that the second

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

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

Pg. 1 of \_2

Fabricated and certified by Connex	Pipe Systems, In	ic., 1115 Gilman St	reet, Marietta	, Ohio 45750
Time Constant	stars Internation			
2. Fabricated for Fluor Constru	LUIS Interndence	(name and address)		
3. Location of installation Millst	one Unit 2 SGRP	**		
Location of installation		(name and address of Purchaser)		
4. Type 42176 (Cert. Holder's serial no.)	N/A	E4217-6 Rev. 3	N/A	1992
(Cert. Holder's serial no.)	(CRN)	Edrawing no.1	(Nat'l. Bd. no.)	iyear builtr
. ASME Code, Section III, Division 1:	1983 5	Summer 1984	2 Iclass	N/A
				(Code Case no.)
Shop hydrostatic test	N/A	psi atN/A	1	*F (if performed)
Fanduara	San	page 2 of 2		
. Description of piping Feedwate	I See	Dake Z OI Z		
Cenificate Holders' Data Reports prop	erly identified and signed b	y commissioned inspectors ha NAKO #2 10	ve been furnished for t	he following items of this
report Fiece Mark Numbe	1. 115100-50-50	0000 82.10		
Bemarks: N/A				
Remarks: N/A				
	CERTIFICATE	OF SHOP COMPLIANCE		
We certify that the statements made in ti	his report are correct and t	hat the fabrication of the desc	cribed piping subassen	ably conforms to the rules
construction of the ASME Code, Sect				
The state of the s				
NPT Certificate of Authorization No		March 1, 1994	3	
Date 4-17-52 Name Connex	7/ 6		W. 1 A 7/1	
Date 4-17-52 Name Connex	Pipe Systems, In	C. Signed	Track That	(resentative)
		The second secon	A A A A A A A A A A A A A A A A A A A	
		OF SHOP INSPECTION		
I, the undersigned, holding a valid commof Ohio ar	nd employed by Allen	onel Board of Boiler and Press Idale Mutual Insura	ure Vessel Inspectors nce Company, 1	and the State or Province actors Mutual
Systemof_				assembly described in the
Data Report on 4-/7-94 an	d state that to the best o	f my knowledge and belief, t	the Certificate Holder	has fabricated this pipin
subassembly in accordance with the ASI				
By signing this certificate neither the ins	spector nor his employer n	nakes any warranty, expresse		
described in this Data Report. Furthermo				
damage or a loss of any kind erising from		-		
	020 00			
Date 4-17-92 Signed 2	CE oull	Commissio	INAT BO UND ANDORS	ments) and state or prox. and no
	Appringuized (Hebector)			

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

(12/68)

<sup>\*</sup>Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form. This form (ED0062) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

## FORM NPP-1\_(Back - Pg. 2 of \_\_\_\_)

	Certificate Hold	ter's Serial No
scription of field fabrication		
escription of field reprication -		
Name of the Owner, the London December of the Owner, and the Owner, or t		
	essurepsi at temp	°F (if performed)
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construction of the ASME Code.	Section III, Division 1.	
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	Signed	
teName	(Certificate Molder)	seuthorized representative
	CERTIFICATE OF FIELD FABRICATION INSPECTION	
	CERTIFICATE OF FIELD FABRICATION INSPECTION  commission issued by the National Board of Boiler and Pressure Vessel	Inspectors and the State or Province
the undersigned, holding a valid	commission issued by the National	
	and employed by	n with the described piping subasser
and state that parts referred to	and that to the best of my knowledge and belief the	e Certificate Holder has fabricated to
have been inspected by me b	with the ASME Code, Section III, Division 1.	
ping subassembly in accordance	with the ASME Code, Section III, Division 1, the inspector nor his employer makes any warranty, expressed or implie the inspector nor his employer makes any warranty, expressed or implied the inspector nor his employer shall be liable in any mar	d, concerning the piping subassem
signing this certificate neither	the inspector nor his employer makes any warranty, expressed or his thermore, neither the inspector nor his employer shall be liable in any mar	nner for any personal injury or prope
scribed in this Data Report. Fur	thermore, neither the mayor the inspection.	
amage or a loss of any kind arisir	ng from or connected with this inspection.	
	Commissions	id. (incl. endorsements) and state or prov. and n
Sate Signed	(Authorized Inspr. 19r)	C. HINCH STREET, STREE

# NPP-1 SHEET 2 OF 2

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Connex Pipe Systems, Inc 1115 Gilman Street Manette Onto 45750 Telephone 614.373.7541 Fax 614.373.8480 Twx 810.486.2806

#### SUMMARY PAGE - OMTR'S SKETCH E4217-6

ITEM #	BEAT #	SERIAL #	MTR SERIAL #	DESCRIPTION
1	L21137	1	4	18" SCR 60 SMLS PIPE SA106B
2	AUE	-	5	CODE PLATE SA240 TP304

. Owner	No.	(Name)	ear Energy (	Company		Date 12/03	192		
	W	aterford, Con	necticut			Sheet 1	of <u>3</u>		
Plant	M	(Address)				Unit Two			
(Name) Waterford, Connecticut (Address)									
. Work Performed by Fluor Constructors (Name)					Fluor Constructors Repair Organization P.O. No., Job No., etc.  #440 /12-92-00636				
Irvine, California									
. Identification	on of Syst	(Address) em Stean	n Generator	No. 1 -	Feedwater		72-92-017	70	
		-							
tel America	-bla Cana	and the same	A COME 101	11 Edition	No Adden	do Codo Co	rer		
(b) Applica	able Editio	ruction Code n of Section appnents Rep	XI Utilized f	or Repair	s or Replace	ements-19 <u>8</u> (	81W Addenda	, Code Case	
			A	T	T T		T	45145	
Name of Component	Name	Mfrs. Ser. No.	Nat'l. Bd. No.	No.	Other Identifica-	Built	Repaired, Replaced	Code	
	Mfr.				tion		or Replace-	Stamped (Yes or No)	
				-			ment		
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	
. Tests Con . Remarks	ducted: Hi Pr NPP-1	See Attact ydrostatic \( \frac{1}{2} \) essure \( \frac{1250}{2} \) pplicable Manufa	Prieumatic psi Test	Temp. 1	40°F	g Pressure _	Other SEE	ATTACHME	
			CERTIFIC	ATE OF	COMPLIA	ANCE			
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ligned Col	and the	in Sem	a Coga	ment .	January .	25	,19 92		
(Owner	pr'Owner's	Designee)	Title		(Date)	1	~ ( \$ 0 )	5+17	
					COMPLIA	THE RESIDENCE PARTY.			
I, the under	signed, he	lding a valid ate or Provinc	commission	issued I	by the Natio		Boiler and Press		
HARTEN	ED. CT	have ins	pected the	Control of the Contro	ALEMENT		described in th		
Do-	70	1092	and state *		air(s) or Replac		and belief, this	renair or	
		constructed	in accordar	nce with	Section XI	of the ASME	Code. By sign	ing this	
							sed or implied, i		
shall be liab	ole in any r	manner for at	ny personal	injury or	property da	mage or a k	spector nor his	arising from	
connected i	with this in	nspection	1 /	TNZ			CT1137		
2	19,199	726	AMERICAN STREET, STREE	Commissi	ons L.M	50L2			
Date 7									

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

1. Owner

Northeast Nuclear Energy Company

Date 12/03/92

(Name)

Waterford, Connecticut

Sheet 2 of 3

2. Plant

Millstone

(Name)

Unit Two

Waterford, Connecticut

(Address)

(Address)

Fluor Constructors

(Name)

Fluor Constructors

Irvine, California

(Address)

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

4. Identification of System

3. Work Performed by

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 631.7-1967. A portion of the feedwater piping being replaced was a replacement performed by NU in 1979 under ASME Section XI.
- 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.

Feedwater piping was replaced from steam generator nozzle out to and steam generator blockhouse (see attached sketch). Work perfund per Auro MZ-92-00636 and MZ-92-01770 affiliar 1/24/35 7. Feedwater piping was replaced from steam generator nozzle out to and including second elbow outside of

Northeast Nuclear Energy Company 1. Owner

(Name)

Waterford, Connecticut

Sheet 3 of 3

Date 12/03/92

2. Plant

Millstone

Unit Two

(Name)

(Address)

Waterford, Connecticut

(Address)

(Name)

Fluor Constructors

Fluor Constructors

Irvine, California

(Address)

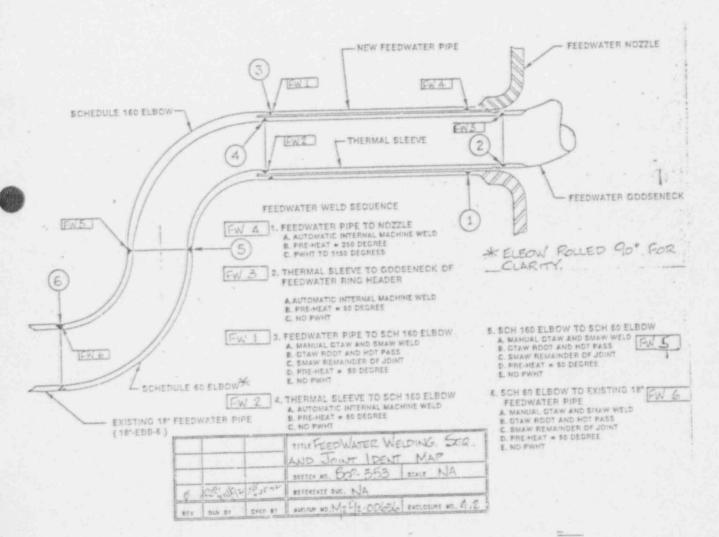
Repair Organization P.O. No., Job No., etc.

4. Identification of System

3. Work Performed by

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

Pg. 1 of \_\_2

		Iname and address of NP1 Centrol	treet, Marietta	
Fabricated for Fluor Construct	tors Internatio	nal Inc. **		
W/13	N-4+ 2 CORD 4	· (name and address)		
Location of installation Millstone	Unit 2 SGRF *	ineme and appress of Purchase	11)	
7 42175	N/A	E4217-5 Rev. 3	N/A	1992
Type 42175 (Cert. Molder's serial no.)	(CRN)	(orawing no.1	that'l. Bd. no i	(veer built)
ASME Code. Section III, Division 1:	1983	Summer 1984 (addenda date)	- 2	N/A
Shop hydrostatic test				*F (if performe)
phop hydrostetic test		P3( 6) amount ( )		Thi perionie.
Description of piping Feedwater	See pa	age 2 of 2		
Remarks: N/A				
F1511(6183)				ATTACHMENT OF THE PROPERTY OF THE PARTY OF T
		*		
		OF SHOP COMPLIANCE		
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	s report are correct and			nbly conforms to the rul
e certify that the statements made in this construction of the ASME Code, Section	s report are correct and in III, Division 1.	that the fabrication of the de		nbly conforms to the rul
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[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

<sup>\*</sup>Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ × 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 NPP-1\_(Back - Pg. 2 of \_\_\_\_\_)

			Certificate Holder	's Serial No.
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Connex Pipe Systems. Inc. 1115 Gilman Street Marietta Dhio 45750 Telephone 614.373 7541 Fax 614.373.8480 Twx 810 486 2806

#### 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

Owner		rtheast Nucle	ar Energy (	Company	1	Date 1/08/93				
		(Name) aterford, Con	necticut		5	Sheet 1 of 2 Unit Two				
		(Address)								
		(Name)	necticut							
	NV.	(Address)								
Work Performed by		Fluor Const	tructors			Fluor Constructors Repair Organization P.O. No., Job No., etc. M2-92-03342 M2-92-11818 A2-92-0 M2-92-03292 M2-92-10633				
		Irvine, Calif	fornia	de						
Identification	on of Syst	(Address) em React	or Coolant	11 1		rator #2, Cold		200		
100110110011										
(a) Applica	able Const	ruction Code	ASME Sec	tion III 1	971 Edition,	71 Summer	Addenda, Code	Cases N/A		
(b) Applica	able Editio	n of Section	XI Utilized t	for Repair	s or Replace	ements-19 <u>80</u>	. 81W Addenda	, Code Cases		
Identificati	on of Con	ponents Rep	aired or Re	placed, a	nd Replacen	nent Compon	ents			
Name of	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identifica-	- Year Built	Repaired, Replaced or Replace-	ASME Code		
Component					tion			Stamped (Yes or No)		
							ment	1,11,2		
Reactor	Bechtel				30-CCA-2	1975	Replaced	Yes (N/A)		
Coolent Piping					W24					
	CE				503-03-2	1992	Repaired	Yes		
				-		-		(B31.7)		
	Fluor				30-CCA-2	1952	Replacement	No		
3. Tests Cor 9. Remarks	nducted: H	See Attac ydrostatic & ressure 2295 Applicable Manuf	Pneumati psi Test	Temp. 5	32°F	ing Pressure	_ Other _			
			CERTIFIC	CATE OF	F COMPLI	ANCE	10			
Ne certify th	at the sta	tements mad	e in this rep	ort are c	orrect and ti	his Replacer	nent /2conform	ns to Section XI		
of the ASME	Code.	A	1 .	_		(repair or t	epla ment)			
ligned	Compwher's	and 3	Title	my	(Date)	elrenny	10_19_7	3		
(Cwne	O Owner s	Designeer		CATEO		ANCE				
I the unde	rsinned h	ordino a valid	commissio	m issued	F COMPLI	onal Board of	Boiler and Pres	isure_Vessel		
Inspectors	and the S	tate or Provin	nce of	Corner?	icux.	, employed	described in t	2 20 01		
Hartyer	1, (17		spected the	Mes	seir(s) or Replat	cement(s))				
00 100	8	19 2	and state	that to th	he best of m	ny knowledge	and belief, this	s repair or		
romitimate	neither th	e inspector r	nor his emp	lover mal	kes any war	ranty, expres	Code. By sign sed or implied,	concerning		
the tennir	or renlaner	nent describe	ed in this Re	epart. Fr	irthermore.	neither the In	spector nor his	employer		
shall be lia	ble in any	manner for a	iny persona	injury o	r property d	amage or a lo	oss of any kind	arising from or		
19 F	F13 93	E /6	RK AN		CTI					
Date MES	EP 23	ZHa	ctor) Ah	Commiss	sions NY	e or Province, N	stional Board)			
NOTE: Sup	plemental sh	eets in form of in	sts, sketches o	or drawings	may be used or	ovided (1) size is	8 /s in. x 11 in.; (2)	information in Items		
1 through 4 of this form		report is include	d on each she	et; and (3)	each sheet is hi	umbered and the	number of sheets )	s recorded at the top		
The state of the s										

1. Owner

Northeast Nuclear Energy Company

Date 1/08/93

(Name)

Waterford, Connecticut (Address)

Sheet 2 of 2

2. Plant

Millstone

Unit Two

(Name)

Waterford, Connecticut

(Address) 3. Work Performed by

Fluor Constructors

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

(Name)

Irvine, California

(Address)

\$\frac{1}{2}\frac{1}{2

Fluor Constructors

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

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-nozzie weldment. During removal of these attachments, the piping base material was nicked requiring repair.

	-	(Name)	ear Energy (		Date 1/07/93					
	Wa	(Address)	necticut	S	Sheet 1 of 2					
. Plant	Mil	Istone			L	Unit Two				
	Wa	(Name) sterlord, Con	necticut							
. Work Perfo	rmed by	(Address) d by Fluor Constructors					Fluor Constructors			
		(Name) Irvine, Calif	fornia	~	10 11 1	Repair Organization P.O. No., Job No., atc. M2-92-03342 M2-92-03292				
. Identification	on of Syste	(Address) em <u>React</u>	or Coolant	Piping - 5	Steam Gener	vi2 02 0001 ator #2, Col	7 MZ-92-1	92-1063		
(a) Application (b) Application (c) Identification	able Edition	n of Section	XI Utilized f	or Repair	s or Replace	ments-19 <u>80</u>	Addenda, Code	Cases N/ , Code Ca		
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identifica- tion	Year Built	Repaired, Replaced or Replace- ment	ASME Code Stamped (Yes or No)		
Reactor Coolant Piping	Bechtel				30-CCA-2 W28	1975	Replaced	Yes (N/A)		
* iping	CE				503-03-3	1992	Repaired	Yes (B31.7)		
		1			A CONTRACTOR OF THE PARTY OF TH					
	Fluor				30-CCA-2	1992	Replacement	No		
7. Descriptio	n of Work	See Attac	hment Pneumati	c Nor				No		
8. Tests Con 9. Remarks	n of Work iducted: H Pr	ydrostatic <u>/</u> essure <u>2295</u> pplicable Manuf	Pneumati psi Test acturer's Data	Reports to	ninal Operation of the ettached)	ng Pressure	Other_	l l		
8. Tests Con 9. Remarks We certify the of the ASME Signed	n of Work iducted: H Pri	ydrostatic / essure 2295 pplicable Manut	Pneumati psi Test ecturer's Deta CERTIFIC e in this rep	Reports to	be ettached)  COMPLIA  orrect and the	ng Pressure  ANCE his Replace		l l		
8. Tests Con 9. Remarks We certify the of the ASME Signed	n of Work iducted: H Pr	ydrostatic / essure 2295 pplicable Manut	Pneumati psi Test ecturer's Deta CERTIFIC e in this rep	Reports to CATE OF	be etteched)  COMPLIA  correct and the	ANCE Replace trepair or a	_ Other _	S to Section		
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We certify the of the ASME Signed Comments on Treplacement	n of Work ducted: He provided the state Code.	policeble Manuf tements mad Designeel  olding a valid ate or Provin have in	Pneumatingsi Test  acturer's Deta  CERTIFIC  e in this rep  Title  CERTIFIC  commission  ice of the  and state if  in accorda	Reports to CATE OF CAT	be etteched)  COMPLIA  orrect and the (Date)  F COMPLIA by the Nation air(s) or Replace eir(s) or Repl	ANCE his Replace (repair or repair o	ment Conform replacement)  Boiler and Pres by X 7 7 7 described in the and belief, this E Code. By sign	sure Vessions Report is repair or ning this		
We certify the of the ASME Signed Come  I, the under Inspectors  on replacement certificate, the repair to shall be lial	n of Work ducted: He had the stat Code.  It has been neither the preplacen ble in any	pplicable Manuf tements mad besigned  polding a valid ate or Provin have in  1996 constructed e Inspector repent describe	Pneumatingsi Test  acturer's Deta  CERTIFIC  e in this rep  CERTIFIC  commission ice of spected the  and state if in accordation his empled in this Re	Reports to CATE OF CAT	be etteched)  COMPLIA  orrect and the (Date)  F COMPLIA  they the Nation  airus or Replace  in best of many warr  rithermore, r	ANCE his Replace trepair or a  ANCE mal Board of mentle() y knowledge of the ASM ranty, expres neither the Ir	ment Conform replacement)  Boiler and Pres by 2577 described in the	his Report s repair or ning this concerning employer		
We certify the of the ASME Signed Towns  I, the under Inspectors  on The replacement certificate, the repair of shall be fial connected.	n of Work ducted: High Prince of Work and the state Code.  It has been neither the prince of the in any with this in the state of the interval	pplicable Manuf tements mad besigned  polding a valid ate or Provin have in  1996 constructed e Inspector repent describe	Pneumatingsi Test  acturer's Deta  CERTIFIC  e in this rep  CERTIFIC  commission ice of	Reports to CATE OF CAT	be etteched)  COMPLIA  orrect and the (Date)  F COMPLIA  they the Nation  airus or Replace  in best of many warr  rithermore, r	ANCE his Replace trepair or a  ANCE mal Board of memoritall y knowledge of the ASMI ranty, express meither the Ir amage or a I	ment Conform replacement)  Boiler and Pres by 2/2/2 described in the and belief, this E Code. By sign ssed or implied, his pector nor his	his Report s repair or ning this concerning employer		

1. Owner

Northeast Nuclear Energy Company

Waterford, Connecticut

Sheet 2 of 2

Date 1/07/93

2. Plant

(Address) Millstone

Unit Two

(Name)

(Name)

Waterford, Connecticut

(Address)

3. Work Performed by

Fluor Constructors

(Name)

Irvine, California

Fluor Constructors

Repair Organization P.O. No., Job No., etc. 112-96-03292 M2-92-03342

(Address)

M2-92-03317

m2-52-11818

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

M2-92-1-633

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.

. Owner	No	Theast Nucl	ear Energy (	Company	ī	Date 1/07/9	3			
	W	(Name) Waterfold, Connecticut					Sheet _1_ of _2_			
. Plant	M	(Address)				Unit Two				
	-	(Name) Waterford, Connecticut								
	<u>vv</u>	(Address)	necticut							
I. Work Perfo	ormed by	Fluor Cons (Name)	tructors			luor Constru	ictors ion P.O. No., Job N	in win		
		Irvine, Cali	fornia				0334Z M			
. Identification	on of Syst	(Address) em React	or Coolant I	Piping - 5	Steam Gener		3			
. (a) Applic	able Const	truction Code	ASME Sec	tion III 1	971 Edition,	71 Summer	Addenda, Code	Cases N/A		
(b) Applic	able Editio		XI Utilized f	or Repair	s or Replace	ments-19 <u>80</u>	, 81W Addenda			
	T			T	T	T				
Name of Component	Name of	Mirs, Ser. No.	Nat'l. Bd. No.	No.	Other Identifica-	Year Built	Repaired, Replaced	ASME Code		
	Mfr.				tion		or Replace-	Stamped (Yes or No)		
					1		ment	1744 31 1151		
Reactor	Bechtel				42-CCA-1 W15	1975	Replaced	Yes (N/A)		
Coolant Piping					4415					
	Fluor				42-CCA-1	1992	Replacement	No		
					1					
<ol> <li>Descriptio</li> <li>Tests Con</li> <li>Remarks</li> </ol>	ducted: H	ydrostatic / ressure 2295	Prieumation psi Test	Temp. <u>5</u>	32°F	ng Pressure	_ Other _			
			CERTIFIC	ATE OF	COMPLIA	NCE				
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Kl of the ASI		cincina indu	o an tras repo	Unit pit U	ander end to		eplacement)	10 000		
Signed 3	y. lin	- 1	u-E	un	form	- 2 m	19 9	3		
The condition and they	or Owner's	Designee)	Title 0		(Bete)	1				
					COMPLIA					
		olding a valid ate or Provin		congr)			Boiler and Press			
Mary for	d 07		spected the	VIII I	Ceplacem	and the	described in th			
7	0	10.02	and etsta t		e hest of my		and belief, this	renair or		
replacemen	it has been	constructed	in accordar	nce with	Section XI o	of the ASME	Code. By signi	ing this		
certificate,	neither the	e Inspector n	or his emplo	yer mak	es any warra	anty, expres	sed or implied, a spector nor his	concerning		
shall be liat	ble in any	manner for a	ny personal	injury or	property da	mage or a lo	ss of any kind a	arising from		
connected			LOVI	-0-0	-7-17	ANI				
Date JUF	EB QZ	- Ew	Ser.	Commiss	ions was	CLZ				
		(inspec	for) hand		mark in a self-	or Province, Ne	rtional Board)			

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 ½ in. x 11 in.; (2) information in Items 1 through 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.

1. Owner Northeast Nuclear Energy Company Date 1/07/93

(Name)

Waterford, Connecticut Sheet 2 of 2

2. Plant Millstone Unit Two (Name)

Waterford, Connecticut

(Address)

3. Work Performed by Fluor Constructors

(Name)

Irvine, California

(Address)

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

 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 rivere partially replaced. Original Bechtel weld identification was W15 per Drawing 25203-20153, Sheet 143.

Fluor Constructors

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

	No	rtheast Nucle	ar Energy C	ompany	D	ate 1/08/9	3	
	Wa	(Name) sterford, Con (Address)	necticut		S	heet _1_ 0	of _2_	
Plant	Mil	(Name)			U	nit <u>Two</u>		
	W	(Address)	necticut					
Work Performed by Fluor Constructors (Name)  Irvine, California (Address)  Identification of System Reactor Coolant Piping - Si			Fluor Constructors Repair Organization P.O. No., Job No., etc. M2-92-03340 M2-92-10945 M2-92-03315					
. Identificati	on of Syste	em <u>React</u>	or Coolant F	iping - S	Steam Genera	ator #1, Col	d Leg B	
(b) Applic	able Edition	ruction Code n of Section sponents Rep	XI Utilized for	or Repair	s or Replacer	nents-19 <u>80</u>	Addenda, Code 0, 81W Addenda nents	Cases N/A , Code Cas
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identifica- tion	Year Built	Repaired, Replaced or Replace- ment	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 (831.7)
	Fluor				30-CCA-2	1992	Replacement	No
Charles of the Charle								
. Description		ydrostatic J	Pneumatic	Temp. <u>5</u>	32°F	g Pressure	_ Other _	
Remarks  We certify to the ASME	hat the start Code.	essure 2295  pplicable Manuf	CERTIFIC	ATE OF	COMPLIA	is Replace	ement_conform replacement)	
Remarks  We certify to the ASME	nducted: H Pr (A	essure 2295  pplicable Manuf	CERTIFIC e in this rep	ATE OF	COMPLIA	repair or r	replacement)	

(Inspector) NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 ½ in. x 11 in.; (2) information in items 1 through 6 on this 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.

1. Owner

Northeast Nuclear Energy Company

Date 1/08/93

(Name)

(Address)

Waterford, Connecticut

Sheet 2 of 2

2. Plant

Millstone (Name) Unit Two

Waterford, Connecticut

(Address)

Work Performed by Fluor Constructors
 (Name)

Irvine, California

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

M2-92-03340 M2-92-10945 CSCAP II

M2-92-03315

(Address)

4. Identification of System Reactor Coolant Piping - Steam Generator #1, Cold Leg B

 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.

	No	rtheast Nucle	ear Energy C	ompany	D	ate 1/08/9	3	
	Wa	(Name) sterford, Con	necticut		s	heet 1 o	f _2_	
Plant	Mi	(Address)			U	Init Two		
	W	(Address)	necticut					
Work Performed by Fluor Constructors (Name) Irvine, California					R	Fluor Constructors Repeir Organization P.O. No., Job No., etc. M2-92-03340 M2-92-10945		
Identification	on of Syste	(Address) em React	for Coolant I	Piping - S		/2-92-0290 ator #1, Col		
SUCTION COLO		2,22,30,20						
(b) Applic	able Edition	ruction Code n of Section ponents Rep	XI Utilized f	or Repair	s or Replace	ments-19 <u>80</u>	Addenda, Code , 81W Addenda	Cases N/A , Code Cas
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identifica- tion	Year Built	Repaired, Replaced or Replace- ment	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
. Descriptio	n of Work	_/_			L			
Ne certify the ASME	nducted: H. Pr	ydrostaticessure 2295 pplicable Manuf	psi Test acturer's Data CERTIFIC	Reports to	be attached)	NCE	Other	ns to Section
Ne certify the ASME	Anducted: H	ydrostaticessure 2295 pplicable Manuf	CERTIFIC e in this rep	ATE OF	be strached)  COMPLIA  orrect and th	NCE is Replacer trepair or t	mentconform	ns to Section 3

(Inspector) Publ NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 ½ in x 11 in.; (2) information in items 1 through 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.

(State or Province, National Board)

1. Owner

Northeast Nuclear Energy Company

Date 1/08/93

(Name)

Waterford, Connecticut

Sheet 2 of 2

(Address)

2. Plant

Millstone.

Unit Two

(Name)

Waterford, Connecticut

(Address)

Fluor Constructors

Fluor Constructors

3. Work Performed by

(Name)

Repair Organization P.O. No., Job No., etc. M2-92-03340 M2-92-10945

Irvine, California

(Address)

M2-92-02904

4. Identification of System Reactor Coolant Piping - Steam Generator #1, Cold Leg A

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.

Northeast Nuclear Energy Company  (Name)  Waterford, Connecticut (Address)  Plant  Millstone (Name)  Waterford, Connecticut (Address)  Work Performed by Fluor Constructors (Name)  Irvine, California (Address)  Identification of System  Reactor Coolant Piping - Steam Generator #1, Hot Leg  (Address)  Identification of Components Repaired or Replaced, and Replacement Components  Name of Component Name  Name Mfrs. Ser. Nat'l.  No. Bd. No. No. Identification  No. Bd. No. No. Identification  No. Bd. No. No. Identification  Replacement	2,70+7 Cases N/A Code Cas
Waterford, Connecticut (Address)  Plant  Millstone (Name)  Waterford, Connecticut (Address)  Work Performed by  Fluor Constructors (Name)  Irvine, California (Address)  Identification of System  Reactor Coolant Piping - Steam Generator #1, Hot Leg  (b) Applicable Construction Code ASME Section III 1971 Edition, 71 Summer Addenda, Code (b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Identification of Components Repaired or Replaced, and Replacement Components  Name of Name Mirs. Ser. Nat'l. CRN Other Year Repaired, Or Replaced or Replaced Tion  No. Bd. No. No. Identification Built Replaced or Replaced.  Mir. Replaced or Replaced.	2,70+7 Cases N/A Code Cas
Work Performed by Fluor Constructors (Name)  Identification of System Reactor Coolant Piping - Steam Generator #1, Hot Leg  (a) Applicable Construction Code ASME Section III 1971 Edition, 71 Summer Addenda, Code (b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Identification of Components Repaired or Replaced, and Replacement Components  Name of Name Mfrs. Ser. Nat'l. CRN Other Year Repaired, Component of No. Bd. No. No. Identification Built Replaced or Replace.	2,70+7 Cases N/A Code Cas
Work Performed by Fluor Constructors (Name)  Irvine, California (Address)  Identification of System Reactor Coolant Piping - Steam Generator #1, Hot Leg  (a) Applicable Construction Code ASME Section III 1971 Edition, 71 Summer Addenda, Code (b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Identification of Components Repaired or Replaced, and Replacement Components  Name of Name Mfrs. Ser. Nat'l. CRN Other Year Repaired, Component of No. Bd. No. No. Identification or Replaced or Replaced tion or Replaced.  No. Bd. No. No. Identification or Replaced.  No. Replaced or Replaced.	2,70+7 Cases N/A Code Cas
Work Performed by Fluor Constructors   Fluor Constructors   Fluor Constructors   Repeir Organization P.O. No., Job No.	2,70+7 Cases N/A Code Cas
(Name)   Irvine, California   AWO M2-92-03340   AWO M2-92-03318     Identification of System   Reactor Coolant Piping - Steam Generator #1, Hot Leg  (a) Applicable Construction Code ASME Section III 1971 Edition, 71 Summer Addenda, Code (b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Identification of Components Repaired or Replaced, and Replacement Components    Name of Name   Mfrs. Ser.   Nat'l.   CRN   Other   Year   Repaired, Component   Of No.   Bd. No.   No.   Identification   Built   Replaced   Or   Or   Replaced   Or   Or   Or   Or   Or   Or   Or   O	2,70+7 Cases N/A Code Cas
Identification of System Reactor Coolant Piping - Steam Generator #1, Hot Leg  (a) Applicable Construction Code ASME Section III 1971 Edition, 71 Summer Addenda, Code (b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Identification of Components Repaired or Replaced, and Replacement Components  Name of Name Mfrs. Ser. Nat'l. CRN Other Year Repaired, Component of No. Bd. No. No. Identification or Replaced tion or Replaced	Cases N/A Code Cas
(a) Applicable Construction Code ASME Section III 1971 Edition, 71 Summer Addenda, Code (b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Identification of Components Repaired or Replaced, and Replacement Components  Name of Name Mfrs. Ser. Nat'l. CRN Other Year Repaired, Component of No. Bd. No. No. Identification or Replaced or Replaced tion or Replaced.	Code Cas
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements-1980, 81W Addenda, Identification of Components Repaired or Replaced, and Replacement Components  Name of Name Mfrs. Ser. Nat'l. CRN Other Year Repaired, Component of No. Bd. No. No. Identification or Replaced or Replaced	Code Cas
1770,000	Code Stamped (Yes or No)
Reactor Bechtel 42-CCA-1 1975 Replaced Coolant Piping	Yes (N/A)
Fluor 42-CCA-1 1992 Replacement	No
. Tests Conducted: Hydrostatic   Pressure 2295 psi Test Temp. 532°F  Remarks  (Applicable Manufacturer's Data Reports to be attached)	
CERTIFICATE OF COMPLIANCE  We certify that the statements made in this report are correct and this Replacement conforms (repair or replacement)  Signed Aller (Owner or Owner & Designee) Artile (Dete)	to Sectio
Ve certify that the statements made in this report are correct and this Replacement conforms from ASME Code.  (repair or replacement)  (repair or replacement)  (repair or replacement)	to Sectio
Ve certify that the statements made in this report are correct and this Replacement conforms from ASME Code.  (Indicated of Owner's Designee)  CERTIFICATE OF COMPLIANCE  Inspectors, and the State or Province of Complete of	Report or g this incerning mployer
Ve certify that the statements made in this report are correct and this Replacement conforms from ASME Code.  Ingred Conforms (repair or replacement)  CERTIFICATE OF COMPLIANCE  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressu Inspectors, and the State or Province of Compliance (Replacement)  In the undersigned, holding a valid commission issued by the National Board of Boiler and Pressu Inspectors, and the State or Province of Compliance (Replacement)  In the undersigned, holding a valid commission issued by the National Board of Boiler and Pressu Inspectors, and the State or Province of Complete Provinc	Report or g this incerning mployer

NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 ½ in. x 11 in.; (2) information in Items 1 through 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.

Northeast Nuclear Energy Company Date 1/08/93 1. Owner

Sheet 2 of 2 Waterford, Connecticut

(Address) Millstone

(Name)

2. Plant

Waterford, Connecticut

(Address)

Fluor Constructors Fluor Constructors 3. Work Performed by

Repair Organization P.O. No., Job No., etc. (Name)

AWO M2-92-03340 Irvine, California M2-92-03318 (Address)

Unit Two

4. Identification of System Reactor Coolant Piping - Steam Generator #1, Hot Leg

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.

	15		lear Energy	Compan	Y	Date 11/3	0/92	
	<u>v</u>	(Name) Naterford, Co (Address)	nnecticut			Sheet 1	of 2	
Plant	<u>N</u>	Milistone				Unit Two		
Waterford, Connecticut								
Work Performed by Fluor Constructors (Name) Irvine, California				Fluor Constructors Repair Organization P.O. No., Job No., etc. See Attached Sheet				
. Identification	on of Sys	(Address) stem <u>Stea</u>	am Generato	or #2				
(b) Applic	able Editi	struction Code on of Section imponents Re Mfrs. Ser. No.	XI Utilized	for Repa	irs or Replac	cements-19	ases - SEE  80, 81W Addent onents  Repaired, Replaced or Replace-	ASME Code Stamped (Yes or No)
Steam Generator	CE	67511	20929			1968 \$69	Partial Replacement	Yes
Generator	B&W	761202	124			1983 584	Replacement	Yes
	1					***************************************		
. Tests Con	iducted: I	k <u>See Atta</u> Hydrostatic • Pressure	Preumati _psi Test	Temp	°F	ng Pressure	_ Other SE	E ATTACHM
. Tests Con	iducted:	Hydrostatic Pressure	Pneumati psi Test ufacturer's Dat	Temp a Reports 1  CATE C	o be attached)	ANCE		
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Ne certify the fine ASME lowner lowne	at the sta Code.  To Owner's and the Star Code a	Applicable Manual Applicable M	Pneumati psi Test  Ulacturer's Dat  CERTIFIE  de in this representation  CERTIFIE  CERTIFIE  CERTIFIE  CERTIFIE  CERTIFIE  COmmission  note of Land  Sand state  d in according to this empled in this River	CATE Con issued that to tance with loyer mae eport. F.	F COMPLICATION OF COMPLICATION OF COMPLICATION OF Replacements of the best of	IANCE this Replace (repair of the ASM) repair of the ASM	ement confor replacement) , 19 5	ms to Section  Sessure Vesse This Report is repair or uning this, concerning semployer
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NOTE: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 % 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.

1. Owner Northeast Nuclear Energy Company

(Name)

Waterford, Connecticut

Sheet 2 of 2

Date 11/30/92

(Address)

2. Plant

Millstone (Name) Unit Two

Waterford, Connecticut

(Address)

3. Work Performed by

Fluor Constructors

(Name)

(Addross)

Irvine, California

See Attached Sheet

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

Fluor Constructors

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 safeend, remachining of feedwater nozzle and the introduction of flow restrictor attachment to main steam outlet nozzie.

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
M2-32-01936	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

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- 81	M	-	100,000		-	-	-

		ceed wile way a river		
Minufactured and cartifled by		Branch and an arrange and a	FUA	KE LUU UJI, UGUGI
Manufactured for Babcock	& Wilcox Canada, &	trume and address of p	cock & Wilcox In	dustries Ltd. Coronatidge, Ontario, Canada
Location of installation Mi	listone unit Z Gene	(name and add	ress)	C1C0C1 00/1
NIASERIW PRY A	S4508, C1.3	Min. 80ksi	the contract of	1989
. Type N145581W, Rev. 4	(mat'l, spec, no.)	frensile strength)	(CAN)	type or Bushij
ASME Code, Section III	1083 1	984 S.Addenda	1	-
ASME Code, Section III	(action)	(acidenda)	(0111)	(Code Case No.)
. Fabricated in accordance w				_Date
. Remarks: - Hydrosta	tic test is not pe	rformed in Japan	Steel Works, Lt	d
· Cladding	thickness is Min.	6 пт.		and the second s
- Cladding	materials are SFA	4-5.4, AWS C1. E30	09L-16 + E308L-1	6.
Nom. thickness (in.) 7"  When applicable, Certification	Min. design thickness (	in.) Dia. ID (ft.	& in.) 12 -5 Dength	overall (ft. & in.) 6'-613/16'

rt or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
1002	207	(25)	
		(27)	
		(28)	
		(29)	
		(30)	
		(31)	
		(32)	
		(33)	
		(34)	
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		(37)	
		(38)	
		(39)	
		(40)	
		(41)	
		(42)	
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		(44)	
		(45)	
		(46)	
		(47)	
		(48)	
	a Standard States and Astronomical States and Astronom	(50) *** *** ****************************	wend - July 10" - 25 - 25 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
CONTRACTOR STATE		(50)	

\*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is B is X 5, (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.

	CERTIFICATE OF DESIG	an .
Design apecifications certified by		P. E. stateReg. no
Design report" certified by	(when applicable) (when applicable)	P. E. stateReg. no
	CERTIFICATE OF SHOP COM	PLIANCE
We certify that the statements mad conform to the rules of construction	e in this report are correct and that this (these on of the ASME Code, Section III.	Primary Head Stainless Steel Cladding
NPT Certificate of Authorization	N-2725	Expires June 16, 1989
Date Jan 11 . 28 Name _	The Japan Steel Works, Ltd. Muroran Plant (NPT Certificate Mosser)	Signed 95 teutreda
	CERTIFICATE OF SHOP INS	PECTION
I, the undersigned, holding a valid	commission issued by the National Board of employed by H.S.B.I. & I.CO	Boiler and Pressure Vessel Inspectors and the state or pro-
of Conn. have it best of my knowledge and belief,	napected these items described in this data	report on and state that to the parts or appurtenances in accordance with the ASME Code.
By signing this certificate, neither described in this data report. Furt	the Inspector nor his employer makes any	warranty, expressed or implied, concerning the equipment over shall be liable in any manner for any personal injury or
8 1-11- E9 Signed	A Jawateta .  (Authorized Inspection H. KAWABATA	Commissions NB # 10145N (Nat'l. Bd (incl. endorsements) state or prov. end nd.)

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

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

Not To Exceed One Day's Production

Pg. 1 of 6

		ceed One Day a Fin		2
	Babcock & Wilco	x Canada, 581 C	Coronation Blvd.,	Cambridge, Ontario
	Nedidadaa Coro	ina Company P.	O. Box 270, Hart	ford, Connecticut, 061
Manufactured for NOTTHE	ast Utilities perv	Ineme and address	s of purchaser)	027
Location of installation Mi	illstone II, Water	ford, Connection	cut .	
7612 F101 Re	v. 04 - See Atta	ched List #1 -		1991
Type / VII LIVI NC	v. 04 - See Atta	. (tensile strength)	ICAN)	(year built)
	1983	Summer 1984	1	See attached list
ASME Code, Section III:	[edition]	(addends date)	(class)	(Code Case no.)
Exhibited in accordance w	ith Const. Spec. (Div. 2 only)		Revision	Date
Secondary	side hydro test l	has not been pe	rformed.	
Remarks:				
	rotest final NDE ha	on not hoon not	formed on the se	condary side.
Post-hydr	rotest linal NDL na	as not been ber	101200	
500	A++	See Att. D. U	THE IN ISEE Att. Len	ngth overall (ft & in.) 43'-11"
Nom. thickness (in.)	- #2	11st #3	list #3	
When applicable, Certificat	te Holders' Data Reports are i	attached for each item o	of this report:	
				-
Part or Appurtenance	Nationa Nationa		Part or Appurtenance	National
			Serial Number	Board Number
Serial Number	Board No			in Numerical Order
	in Numerical	Order		III MUNICIPAL GISE

Part or Appunenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	Board Number in Numerical Order
761202	124	(26)	
		(27)	
		(28)	
		(29)	
		(30)	
		] ((31)	1
		(32)	1
		(33)	
		(34)	
		(35)	
		(26)	
		(37)	
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		(39)	-
		(40)	
)		(41)	1
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	2 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	[47]	
		(48)	1
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		(50)	

\*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 % × 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 DESIG	N	
R.	P. Necci	P.E. State	_ Reg. no. 11513
Design specifications certified by	(when applicable)	Prov. Ont.	24064503
Design report* certified by	(when applicable)	T is the Walter and the second	116 8
A to the second	CERTIFICATE OF SHOP COMP	LIANCE	
We certify that the statements made in this	report are correct and that this (these)	Steam Generator Sub	-Assembly (See Fi
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 9 1991 Name Bab	cock & Wilcox Canada	Signed 24 Last	presentative)
	CERTIFICATE OF SHOP INSP	ECTION	
I, the undersigned, holding a valid commis	sion issued by the National Board of Boile y Ministry of Consumer &	r and Pressure Vessel Inspectors an Commercial Relations	d the State or Province of
. Onterio housinesses	and these items described in this Data Re	port onno no no	, and state that to the
best of my knowledge and belief, the Cert	ificate Holder has fabricated these parts t	or appurtenances in accordance with	the ASME Code, Section
me was to an Brand has been notherized for	r stamping on the date shown above.		
By signing this certificate, neither the insp in the Data Report. Furthermore, neither t	he inspector por his employee thall be list	le in any manner for any personal in	ury or property damage or
any kind arising from or connected	11.	NAT	9119
Date JUN 1 9 1991 Signed	14 Indized Inspector	Commissions (Nati. Be line) and	rsements) state or prov. and no 1

761202

Page 2 of 6

Manufactured for:

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

Location of Installation:

Millstone II, Waterford, Connecticut

### List #1

	Material Specification No.	Tensile Strength
	SA508 CL.3	80 ksi
Channel Head 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 Shirt	SA533 GR.B CL.1	80 ks

761202

Page 3 of 6

Manufactured for:

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

Location of Installation:

Millistone II, Waterford, Connecticut

List #2

Code Cases:

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

761202

Page 4 of 6

Manufactured for:

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

Var.

Location of Installation:

Millstone II, Waterford, Connecticut

<u>List #3</u>

	Nominal Thickness	Min. Design Thickness	Inner Diameter
Channel Head	7*	7.000"	
Tubesheet	21.75"	21.440"	
Tubes	0.045"	0.041"	0.660" Nom.
Secondary Side Shell Plates			
1/ Shell Section Below Cone	4"	3.813"	13" - 2%"
2/ Middle Shell Section	3.3125"	3.100"	13' - 2%"
3/ Shell Section Above Tubesheet	4.3125"	4.000"	13' - 21/1"
Secondary Side Cone Plate	5.75"	5.563"	
			13' - 2%"

Favore

Form N-2 Mfr. Serial No.:

761202

Page 5 of 6

Manufactured for:

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

Location of Installation:

Millstone II, Waterford, Connecticut

## List #4

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

Manufactured for:

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

Location of Installation:

Millstone II, Waterford, Connecticut

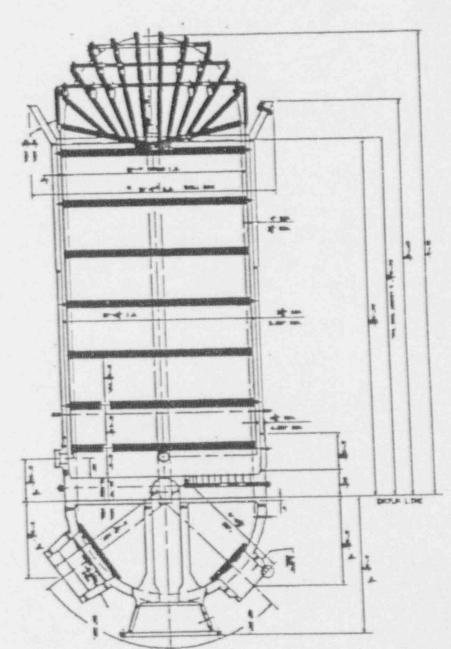


Figure 1
General Arrangement

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

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

Not To Exceed One Day's Production

Pg. 1 of 1

Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Blvd., Cambridge, Ontario
Manufactured for Northeast Utilities Service Company, P. O. Box 270, Hartford, Connecticut
Location of installationMillstone II, Waterford, Connecticut (name and address)
Type 7612D275 Rev. 04 SA 533 Gr. B Cl. 1 80 ksi - 1991
ASME Code, Section III: 1983 Summer 1984 1 N/A seddenda date: 10 toda Case no 1
Fabricated in accordance with Const. Spec. (Div. 2 only) Revision Date
Remarks: Hydro test has not been performed.
- DD 2 / 5
Nom. thickness (in.) 5.25 Min. design thickness (in.) 4.75 Dia 20 (ft & in.) 2 - 4.5 Length overall (ft & in.) N/A  When applicable, Certificate Holders' Data Reports are attached for each item of this report.

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
761203	126	(26)	
5/350/	127	(27)	
		(28)	
		(29)	
		(30)	
		(31)	
		(32)	
		(33)	
		(34)	
		(35)	
		(36)	
		(37:	
		(38)	
		(39)	4
		(40)	1
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]		(42)	
		(43)	
1		(44)	
1		(45)	
1		(46)	
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		(45)	
The second of the contract of	The second section of the second seco	(49)	
5)		(50)	
		F. Hydro, test pressure	

<sup>\*</sup>Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 % x 31, (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 DESIG	N
Design specifications certified by R. P. Necci	P.E. StateCt . Reg. no 11513
Design report* certified by R. G. Klarner	P.E. Proy. Ont. Rep. no 24064503
CERTIFICATE OF SHOP COMPI	IANCE
	Primary Manway Covers
We certify that the statements made in this report are correct and that this (these) conforms to the rules of construction of the ASME Code, Section III.	
N-2791	Expires January 13, 1992
NPT Certificate of Authorization No. N-2/91	=M 1011.
Date SEP 16 1991 Name Babcock & Wilcox Canada INPT Certificate Holder)	Signed
CERTIFICATE OF SHOP INSPE	CTION
1, the undersigned, holding a valid commission issued by the National Board of Boiler Ontario and employed by Ministry of Consumer &	Commercial Relations
of Ontario have inspected these items described in this Data Rep	ort on SEP 1 6 1991 and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts of	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 perificate neither the inspector nor his employer makes any warrant	y, expressed or implied, concerning the equipment cascribed
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable	e in any manner for any personal injury or property camage or
of any kind arising from or connected with this inspection.	0
Date SEP 1 6 1991 Signed 1911-67-	_ Commissions
(Authorized Inspector)	[Nat'l. Bd. (incl. endorsements) state or prov. and no. ]

	wner Northeast Nuclear Energy Company				Date 11/30/92			
	(Name) Waterford, Connecticut			Sheet 1 of 2				
Plant	N	(Address) Millstone			Unit Two			
	Y	(Name) Vaterford, Co	nnecticut					
Minds Dode	remark but	(Address)	etruntore		F	luor Constru	ictors	
. Work Perfo	rmed by	(Name)	STRUCTURS		and the same of	ACCRECATE VALUE OF THE PARTY OF	tion P.O. No., Job N	o., etc.
		Irvine, Ca	lifornia		S	ee Attache	d Sheet	
. Identification	on of Sys	(Address) stem <u>Stea</u>	m Generato	r #1				
(b) Applic	able Editi	struction Cod on of Section mponents Re	XI Utilized	for Repair	s or Replacer	ments-19 <u>80</u>	ases See Attach ), 81W Addenda nents	ment , Code Cas
Name of	Name	Mfrs. Ser.	Nat'l.	CRN	Other	Year Built	Repaired, Replaced	ASME Code
Component	of Mfr.	No.	Bd. No.	No.	Identifica- tion	Bont	or Replace- ment	Stamped (Yes or No)
Steam Generator	CE	CE67510	20928			1968 \$69	Partial Replacement	Yes
	B&W	761201	123			1983 1984S	Subassembly	Yes
				The state of the s	7	-		
7. Descriptio	n of Wor	k <u>See Atta</u>	chment	Nami	and Constation	Brancura	Other SEE	ATTACHM
3. Tests Con	nducted: F	k See Atta Hydrostatic - Pressure	Pneumati psi Test	Temp.	_ °F	Pressure _	Other SEE	ATTACHM
7. Descriptio 8. Tests Con 9. Remarks	nducted: F	Hydrostatic <u>.</u> Pressure	Pneumati psi Test	Temp.	_ °F	Pressure_	Other SEE	ATTACHMI
3. Tests Con	nducted: F	Hydrostatic <u>.</u> Pressure	Pneumati psi Test ufacturer's Date	Temp	_ °F		Other SEE	ATTACHM
3. Tests Con 3. Remarks	nducted: F	Hydrostatic • Pressure (Applicable Manu	Pneumati psi Test ufacturer's Dat	Temp e Reports to	be attached)	NCE		
3. Tests Con 3. Remarks_	nducted: F	Pressure (Applicable Many	Pneumati psi Test ufacturer's Dat	Temp e Reports to	be attached)	NCE	Other SEE	
Ne certify the	nducted: F	Pressure (Applicable Many	Pneumati psi Test ufacturer's Dat	Temp e Reports to	be attached)	NCE s Replac	ement confo	rms to Sec
We certify the XI of the ASI	nducted: F	Pressure (Applicable Many	Pneumati psi Test ufacturer's Dat	Temp e Reports to	be attached)	NCE s Replac	ementconfo	rms to Sec
We certify the XI of the ASI	nducted: F	Pressure (Applicable Many	Pneumati psi Test  ufacturer's Date  CERTIFIC  de in this representation  Title	CATE OF	be attached)  COMPLIA  prect and this  (Date)	NCE s Replace frepair or relatively	ement confo	rms to Sec
We certify the XI of the ASI	nat the sta	Applicable Manuatements mail	Pneumati psi Test  ufacturer's Date  CERTIFIE  de in this representation  Title  CERTIFIE  COMMISSION	CATE OF	be attached)  F COMPLIA  priect and this  (Date)  F COMPLIA  by the Nation	NCE s Replace frepair or r lucy NCE hal Board of	ement confo	rms to Sec
We certify the XI of the ASI	nat the sta	Applicable Manuatements manuate	Pneumati psi Test  ufacturer's Date  CERTIFIE  de in this representation  Title  CERTIFIE  COMMISSIE  ince of	CATE OF	be attached)  F COMPLIA  priect and this  (Date)  F COMPLIA  by the Nation	NCE s Replace frepair or r lucy NCE hal Board of	Boiler and Press	sure Vesse
We certify the XI of the ASI	nat the sta	Applicable Manuatements manuate	Pneumati psi Test  Ulacturer's Date  CERTIFIE  de in this representation  Title  CERTIFIE  CERTIFIE  commissie ince of inspected the	CATE OF	be attached)  COMPLIA  orrect and this  (Date)  COMPLIA  by the Nation	NCE s Replace frequency fr	ement confo	sure Vesse
We certify the KI of the ASI Signed Towner  I, the under Inspectors	at the sta ME Code resigned, he	Applicable Manuatements mail atements mail atements mail beginned  holding a valid state or Provi	Pneumati psi Test  Ulacturer's Date  CERTIFIE  de in this representation  Title  CERTIFIE  CERTIFIE  CERTIFIE  CERTIFIE  CERTIFIE  A commission  and state	CATE OF	be attached)  COMPLIA  prect and this  (Date)  COMPLIA  to the Nation  Culture  birls or Replace  e best of my	NCE s Replace frepair or repair or r	Boiler and Press by 1/5/17 described in the	sure Vesse
We certify the XI of the ASI Signed Towner  I, the under Inspectors replacemen	nducted: I	Applicable Manuatements mail atements mail atements mail below the Designeel and The Designeel	Pneumati psi Test  Ulacturer's Date  CERTIFIE  de in this representation  Title  CERTIFIE  CERTIFIE  CERTIFIE  CERTIFIE  CERTIFIE  CERTIFIE  CERTIFIE  COMMISSIE  Inspected the  2  2 and state  and in according	CATE OF The State of that to the ance with	be attached)  COMPLIA  prect and this  (Date)  COMPLIA  to the Nation  Compliance of Replace of Person (Precion XI of Person XI of Pers	NCE s Replace frequency fr	Boiler and Press by 1/5/17 described in the and belief, this Code. By sign	sure Vesse
We certify the XI of the ASI Signed Towner I, the under Inspectors replacement certificate.	nat the sta ME Code. Programmer's resigned, hand the S	Applicable Mans atements mail atements mail beginned  holding a valin State or Provi	Pneumati psi Test  Ulacturer's Date  CERTIFII  de in this report  Title  CERTIFII  d commission ince of part  and state and in according his emp	CATE OF The same of the same with ance with loyer make	COMPLIA  Orrect and this  (Date)	NCE s Replace frequency fr	Boiler and Press by 15/29 described in the and belief, this Code. By sign sed or implied, in the code.	sure Vesse This Report repair or ing this concerning
We certify the XI of the ASI Signed Towner  I, the under Inspectors replacement certificate, the repair of	at the sta ME Code.  I signed, hand the Second that has been either the preplace.	Applicable Mans  atements mai  atements mai  become provided in the provided i	Pneumati psi Test  ulacturer's Date  CERTIFII  de in this report  Title  CERTIFII  d commission ince of part  and state and in according to this employed in this Report  and in this Report in this Repo	CATE OF The state of the same with ance with loyer make eport. Fur	COMPLIA  COM	NCE s Replace frepair or repair or r	Boiler and Press by 1/5/17 described in the and belief, this Code. By sign	sure Vesse This Report repair or ing this concerning employer
We certify the XI of the ASI  I, the under Inspectors  In the under Ins	raigned, hand the standard the	Applicable Manual Applicable M	Pneumati psi Test  ulacturer's Date  CERTIFII  de in this report  Title  CERTIFII  d commission ince of part  and state and in according to this employed in this Report  and in this Report in this Repo	CATE OF The state of the same with ance with loyer make eport. Fur	COMPLIA  Orrect and this  (Date)	NCE s Replace frequency fr	Boiler and Press by 15/2- described in the and belief, this Code. By sign sed or implied, is spector nor his	sure Vesse This Report repair or ing this concerning employer
We certify the XI of the ASI  I, the under Inspectors  In the under Ins	nat the sta ME Code. Procowner's resigned, hand the Stand the Stan	Applicable Manual Applicable M	Pneumati psi Test  ulacturer's Date  CERTIFII  de in this report  Title  CERTIFII  d commission ince of part  and state and in according to this employed in this Report  and in this Report in this Repo	CATE OF The state of the same with ance with loyer make eport. Further or the same of the	COMPLIA  COM	NCE s Replace frequency fr	Boiler and Press by 15/2- described in the and belief, this Code. By sign sed or implied, is spector nor his	sure Vesse This Report repair or ing this concerning employer

of this form.

1. Owner

Northeast Nuclear Energy Company

Date 11/30/92

(Nigrove)

Waterford, Connecticut

Sheet 2 of 2

(Address)

Unit Two

2. Plant

Millstone (Name)

Waterford, Connecticut

(Address)

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

3. Work Performed by

- 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 safeend, 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 One Day's Production

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The second	- 1	100	1
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T 36-			-

	Notice	xceed One Day & Froods		
Manufactured and certified by T	he Japan Steel I	Works, Ltd., Murora!	n Plant/4-Chatsu- or certificate Motorn Hok	Machi, Muroran, kaido O51, Japan
Manufactured for Babcock &	Wilcox Canada,	a division of Babo	cock & Wilcox In	dustries Ltd. Coronat
Location of installation Mills	stone Unit 2 Gen	gname and addr	053	
Type N145581W, Rev.4	SA508, C1.3	Min. 80ksi- pensile strength)	(CRN)	1989 trear builti
ASME Code, Section III	1983	1984 S. Addenda	l kclasa)	(Code Case no.)
Fabricated in accordance wit	h Const. Spec. (Div. 2	only)	vision	Date
Remarks: - Hydrosta	tic test is not	performed in Japan	Steel Works, L'	id.
The second secon	thickness is M			
- Cladding	materials are	SFA-5.4, AWS C1. E	309L-16 + E308L-	16.
- Cladding  Nom. thickness (in.) 7"  When applicable, Certificate	skin dering thicknes	is (in.) Dia. ID (it.	Or Illiania	Over Bir (i. w m.)

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
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		(28)	
		(29)	
		(30)	
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		(35)	
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5)		(41)	
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21)		(47)	
22)		(43)	
23)		(49)	
24)		(50)	
25)———			ure at term

\*Supplemental Information in the form of lists, sketches, or drawings may be used provided (1) size is 8% 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 (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017. this form.

## FORM N-2 (back)

Mfr. Serial No. 2 of 2

	CERTIFICATE OF DES	SIGN	
		P. E. state	eReg. no
Design specifications certified by	(when applicable)		
Design report" certified by	(when applicable)	P. E. state	eRep. no
	CERTIFICATE OF SHOP CO	MPLIANCE	
We certify that the statements made in the conform to the rules of construction of of construc	is report are correct and that this (the	Primary Head St	
	N-2725	Expires	June 16, 1989
Date Dec. 14, AR Name Muro	Japan Steel Works, Ltd. ran Plant	Signed 94	TSUKADA
I, the undersigned, holding a valid committee of Illinois and empl	CERTIFICATE OF SHOP IN ission Issued by the National Board H.S.B.I. & I.	of Boiler and Pressure Ves	ssel inspectors and the state or pro-
Ince of 1111 nots and emptor of Conn. have inspect best of my knowledge and belief, the Consection III. Each part listed has been as By signing this certificate, neither the I described in this data report. Furthermore the party damage or loss of any kind ari	entificate Holder has fabricated these otherized for stamping on the date some pector nor his employer makes a pre- neither the Inspector nor his employer.	e parts or appurtenances in shown above. ny warranty, expressed or apployer shall be liable in an expection.	implied, concerning the equipment by manner for any personal injury or

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

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

Po. 1 of 6

	Manufactured for Northeast Utilities Service Company, P.O.Box 270, Hartford, Connecticut 061
. 1	Location of installation Millstone II, Waterford, Connecticut
Ĭ,	Type 7612 E101 Rev. 04 - See Attached List #1 - 1991  totawing no.) that Lapsec no.) Stensile strength! ICRN! Syear Duilt!
,	ASME Code, Section III: 1983 Summer 1984 1 See attached 11st
	Fabricated in accordance with Const. Spec. (Div. 2 only) Revision Date
	Remarks: Secondary side hydro test has not been performed.
	Post-hydrotest final NDE has not been performed on the secondary side.

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
761201	123	(26)	
701201		(27)	
3)		(28)	
4)		(29)	
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	1	(49)	
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†Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8% × 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 (EDDD40) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

(12/86)

#### FORM N-2 (back)

761201 Mfr. Serial No. CERTIFICATION OF DESIGN R. P. Necci P.E. State Design specifications certified by \_\_\_\_ Prov. 24064503 Ont. Design report certified by \_\_\_ R. G. Klarner CERTIFICATE OF SHOP COMPLIANCE Steam Generator Sub-Assembly (See Fig. 1) We certify that the statements made in this report are correct and that this (these) conforms to the rules of construction of the ASME Code, Section III. January 13, 1992 NPT Certificate of Authorization No. Name Babcock & Wilcox Canada CERTIFICATE OF SHOP INSPECTION 1, 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

any kind arising from or connected with this inspection.

761201

Page 2 of 6

Manufactured for:

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

Location of Installation:

Millstone II, Waterford, Connecticut

# List #1

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

761201

Page 3 of 6

Manufactured for:

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

Location of Installation:

Millstone II, Waterford, Connecticut

List #2

Code Cases:

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

761201

Page 4 of 6

Manufactured for:

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

Location of Installation:

Millstone II, Waterford, Connecticut

List #3

	Nominal Thickness	Min. Design Thickness	Inner Diameter
Channel Head	7"	7.000"	
Tubesheet	21.75"	21.440"	
Tubes	0.045"	0.041"	0.660" Nom.
Secondary Side Shell Plates			
1/ Shell Section Below Cone	4"	3.813"	13' - 2%"
2/ Middle Shell Section	3.3125"	3.100"	13' - 2%"
3/ Shell Section Above Tubesheet	4.3125"	4,000"	13' - 2%"
Secondary Side Cone Plate	5.75"	5.563"	-

761201

Page 5 of 6

Manufactured for:

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

Location of Installation:

Millstone II, Waterford, Connecticut

## List #4

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

761201

Page 6 of 6

Manufactured for:

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

Location of Installation: Millstone II, Waterford, Connecticut

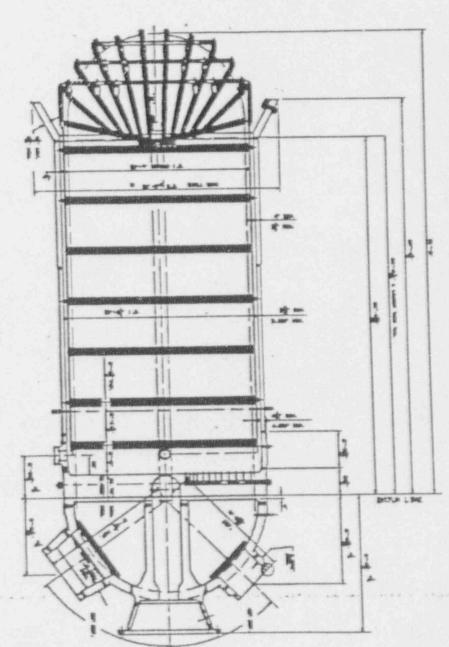


Figure 1 General Arrangement

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

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

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	Not To Exceed One	Day's Production	Pg. 1 of 1
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	Utilities Service Co	mpany, P. O. Box 270, Ha	
ocation of installationMills	tone II, Waterford,	Connecticut	
ype 7612D275 Rev. 04	SA 533 Gr. B Cl. 1	80 ksi -	1991
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When applicable, Certificate Holder	s' Data Reports are attached for	each item of this report:	
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<sup>\*</sup>Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8% × 11, (2) information in items 2 and 3 on this Data Report is included on each steet, (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 P.E. State Ct. Rep no. 11513 Design specifications certified by \_\_\_\_\_ R. P. Necci Pr Proy . Ont . Res no 24064503 Design report\* certified by \_\_ R. G. Klarner 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. January 13, 1992 NPT Certificate of Authorization No. N-2791 Date SEP 16 1991 Name Babcock & Wilcox Canada 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 \_\_\_ \$EP 1 6 1901 \_\_\_\_, 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

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-M5-242	-	BN 4964	NB		PSV 4236	1973	Replaced	705
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	ortheast	Nuclear E	nergy L	company		Da-	FEBRUARY	. /
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tote: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8% in. X 11 in., information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered of the number of sheets is recorded at the top of this form.

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Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Edenti- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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We certify the ASME Code.  Signed  I, the unders or Province of HARTFOR and state the the ASME Code ing the repair for any person.	et the stateme  FILL  Owner or O  signed, holding  CONNE  D, CT  at to the best one  ode. By signing	nts made in this solution where Designee of the Work o	CERT report are co  CERT con lasuer per BOLT flerant rendelief en delief this Report.	IFICATE priect and Market Time  TIFICATI  I by the hoved by GRPLM  State repetite the inspection of the process	OF COMPLIANT OF COMPLIANT OF COMPLIANT OF INSPECTION OF IN	ANCE VACO  ANCE VACO  ANCE VACO  TON  Of Boiler  ORD St  or repla  To be a control  or repla  To be a	end Pressure Vessel In TEAM BOILER IN	nspectors and the Sta SPN & INS CO NUARY 19 ance with Section XI sed or implied, concer be liable in any mann

nformation in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered the number of sheets is recorded at the top of this form.

N.	orthoast	Nuclear E	nerav C	ompany		Dat	e Jan 1	8,1993
1. Owner_IN	Box 128	Waterford	me)Ct.	06385		She	/ 0	1 (
	Millston	(And	(ress)		Unit		2	
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		rtfeast Nu O. Box 120			CO. Repair C	Drganization F	P.O. No., Job No., etc.	1303/
<ol> <li>(a) Appli</li> <li>(b) Appli</li> </ol>	cable Constru	Sp fection Code Burne of Section XI Ut onents Repaired of	ilized for Re	pairs or R	Edition,	- 1980	Addenda, Code	Cases
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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or Province of.  HARTFOI  and state that the ASME Co- ing the repair	CONNE RD, CT , to the best o de. By signing or replacemen	CTICUT  here inspected the firmy knowledge of this certificate, at described in this	e REPA (Repairts) and belief, t neither the	IR or Replacements repair inspector uninermor	descrit ent(s) or replacement nor his emple e, neither the	Ded in this of hes been over makes inspector.	end Pressure Vessel & STEAM BOIL Report on O2 MAR constructed in accord any exercenty, express nor his employer shall with this inspection.	CH 181 CO  CH 193  ence with Section XI sed or implied, concer
	ARCH 1993		ginspectag	E YO		CT	1137 (State or Province, 6	Valionel Board)

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	P.0	). BOX IZT	water	Energy ford, (	Co. Repair O	AUX I	MQ-92-143	77
(a) Appli	tion of System.	CHARGE tion Code PNS	(B3) 7 1	epairs or Fi	Edition.	- Blance y a	D Audende, Code C	Cases
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Ed. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
E-212	-	-	-	-	MKIL 588	-181-18	REPLACEMENT	No
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					FOR STUD	2753	1	
la.								
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	State of the last	(Addi	ess Cha	19/19				
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(b) Applic 5. Identificat	able Edition a ion of Compo	of Section XI Ut onents Repaired	or Replaced	epairs or P	acement Com	ponents	Addende, o	And Cours
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nac'l. Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
-CH-432	Velan	934-1			MRIA	1974	replaced	Yes
CH-127	rcien	1011			# MP2-		T 1 50 back M	
					24-74			
<b>A</b>								
7. Descriptio	on of Work Pe	ertained We	ld build	-upd.	socket web	d ands;	madrical but in	dd ends LP-RTO
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P.0.	Box 128	Waterford	f, Ct.	06385		She	ret	1
Pignt	Millstone	- + Herenad	C+ 0/	5385	Unit			
Work Per	formed by Nor	thesst No. Box 129	clear i	Energy ford, C	t. Repair	OO M	12-91-14	713
And American	tion of System. icable Construct icable Edition of tion of Compor	f Spection Al 42	DATE OF THE PARTY OF THE	EPARTIE AND A	er Bridge segment a same a same		Addenda, Code	Cases
Name of component	Name of Mrr.	Mfrs, Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
NS-64A	ATWOOD &	-	-	-	_	-	REPAIR	No
				-				
B: Tests Co 9. Remark:	Applicable Manufa	ydrostatic LI ressure 900 acturer's Data Pep	CERT	TFICATE	OF COMPL	IANCE AIR repair or repu		BUDY AT SEM

E YORK Commissions CT 1137

Grate or Province, National Board

Note: Supplemental sheets in form of fists, sketches, or signifigures the used provided (1) size is EX in X-11 in , those: Supplemental sheets in form of fists, sketches, or closed on each sheet, and (3) each sheet is numbered the number of sheets is recorded at the top of this form.

Date 25 MARCH 1993

Owner_18					I company to the same of the s	annin Life	te Jan	
P 0	Box 128	Nuclear E Waterford	me) Ct.	06385		She	1 0	1 '
	Millstone		oress)		Unit		2	
D 0	Day 120 L	コナ的神楽のかの	Ct. 0	5385				
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. Work Perf	ormed by NO1	Roy 194	we Water	ford.	fiepair (	Organization I	M2-89.	
	1.1	(Add	ress) /a/	10103	11-11			
dentificat	tion of System	- D.	Chai	91.19	Letdown Edition	-	Addenda, Code	Cases
(a) Appli	cable Construc	of Section XI U	tilized for B	epairs or f	leplacements	- 19.80	WEL Addends, Con	se Cases
. Identificat	tion of Compo	nents Repaired	or Replaced	and Rep	acement Com	ponents		
Name of	Name of	Mfrs. Ser.	Nat'l.	CRN	Other	Year	Repaired,	ASME Code Stamped
Component	Mfr.	No.	Bd.	No.	Identi-	Built	Replaced, or	(Yes or No)
			No.		Tiestion		Replacement	
x11 1/10	V.L.				M/21/2		replace wedge	Value: yes
-CH-442	VEIGN		-	-	MP2-24-	74	Toping 1117	
				-	NF L-LT	17		
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<b>D</b>		1		1				
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1. Gwner No	ortheast	Nuclear E	nergy (	ompany			1-14-	,
OR CONTRACTOR OF THE PERSON NAMED IN		Waterford	g bl.	00303		Shi	01	
P.O. 1	Millston Box 128 W	e Wat <b>erf</b> ord,	Ct. 06	385	Unit			
Work Perfe	primed by No	rtheast Nu O. Box 128	clear l Water	nergy ford, C	Co. Flepair	AW Organization (	0 M2-92	-1680
(a) Applic	cable Edition o	tion Code A5m	BIPV 1	g 71 epairs or Ri	Edition,	- 19.ZQ,.	Addenda, Code ( w 🖁 1 Addenda, Cod	
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
-CH-51B	Fisher	5467850			appenier.		Replacement	Yes
Pemarks_	VEW	Replaced ydrostatic [] ressure 23/0 055 C " acturers Data Report g/na//y 18/	Preumatic psi Testi /AS (5	Temp. 535	inal Operation	ANO	© Other [] M2-92-1682 2-CH-519	5, Parts
E: Tests Cond 9. Remarks_	VEW	ressure 23/0	Prieumatic psi Test (AS (5 s to be attache pracive d	Nome Sales	inal Operation L*F  **  **  **  **  **  **  **  **  **	ANO	M2-92-1682	5, Parts
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	Millston		iciness)		Unit		- 2	
2. PlantP_0	Box 128	Waterford,	Ct. 0	6385	Mill account	AU	10 M2.92	-18730
-				manufacture of the second seco	Co	AW	O M2-92	-17147
3. Work Per	riprimed by P	o. Box 124	Re)Water	ford. (	t. Flepair C	Organization F	O No. Job No., #10.	
			in Fe	A STATE OF THE PARTY OF THE PAR				
4. Identific	ation of System	ction Code ASM			Edition,	Series -	Addenda, Code	Cases
5. (a) App	licable Constru- licable Edition	of Section XI Ut	tilized for R	epairs or R			W81 Addenda, Co	
6. Identific	ation of Compr	onents Repaired	or Replaced	d, and Repli	scement Com	ponents		
Name of	Name of	Mifrs, Ser.	Nat'l.	CRN	Other	Year	Repaired,	ASME Code
Component	Miz.	No.	Bd. No.	No.	fication	Built	Replaced, or	Stamped (Yes or No)
			190.		THE LIGHT	323	Replacement	
-FW-5A	Arroad	Madel#				HEE	repaired	Yes
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Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8% in, X 11 in., with information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered the number of sheets is recorded at the top of this form.

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Name of Component	Name of Mfr.	Mirs Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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ear Mansium	Cordinal	_	_	Acr.	MKIR 284-209-1	1989	replaced	No
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3. Work Per 4. Identific 5. (a) App	ation of System.	(Address)  CTH FEAST  BOY (Nag  React  Lion Code RSME  I Section XI Ut	Nucle Water	fond, CT at epairs or R	Edition,	Summer	AWO M2- DNO_300 NO. etc.	90 - 16149 (Ho
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1225m 600								17
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. 7	F * (2							4.76
1 NUTS 6 STADS 7. Descrip	tion or work	Replaced votostatic D	Pneumatic	□ Nor	minal Operation	// NU	20 Other L	
1 NUTS 6 STADS 7. Descrip	EG+G  tion of Work H  Ro Lea H	Replaced votostatic D ressure 2265 NOR 2 acturers Data Pepo	Pneumatic psi Test 90 - 60	Temp. 5	S AND	// NU	Hor Leg:	5 smos lakur 4 smas
7. Descrip B. Tests C.	tion of Work bonducted: H s Refer to supplicable Manufit  Her the statement  Faul II	vorostatic [] ressure 2265 NOR 2 acturer's Data Pepo	Pneumatic psi Test 90 - 60 ns to be attach	Temp. 5.	OF COMPLETE	11 NU og Pressure o Charj	Mor leg:  175: Cold leg  18 Other D  19 Test Result	5 smos lakur 4 smas
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	formed by No	2. Boy (29	B WATE	itad li	- 06385	rpanization P	O No. JOE NO. PIC.	90-16703
(a) Appli	tion of System. icable Construct icable Edition of	f Section XI Ut	ilized for R	epairs or F	leplacements -	19 80	69 Addenda, Code WEI Addenda, Co	Cases
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5. (a)	pplicable Constru	FEEDWATI of Section XI Un onents Repaired	R WATE	Ig/E	Edition,	68 - 19 80	POND. Job No., etc.  Addends, Code WS1 Addends, Code	0 - 1410 9 Cases de Cases
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	ition of System.		The same and the same at the s	BULLEY	Edition		Addenda, Code	Cases
(b) Appl	icable Edition of	f Section XI Ut	tilized for Fl	epairs or h	ieplacements	- 19 BO	W81 Addenda, Cod	
. Identifica	stion of Compor	vents Repaired	or Replaced	, and Repl	acement Com	ponents		
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Component	Mir.	No.	No.	INO.	fication	Duni	Of	(Yes or No)
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B. Tests Cor  9. Remarks  We certify the ASME 2006  Signed  I, the underst or Province of HARTFOF and state that the ASME Coring the repair	Appropries Manufa (Appropries Ma	essure 9/0 cturers Data Reports s made in this ner's Designee) e valid commis CTICUT eve inspected the my knowledge this certificate described in the	Pneumatic psi Test ns to be attach  CERTI eport are co  CERT sion issued , emplo REP [Repairs and belief, , neither the	FICATE  Prect and to  Title  T	OF COMPL  Nis PE  OF INSPEC  etional Board  E HARTFOI  descrit  enus)!  or replacemer  nor his emplie, neither the	IANCE PAIN Epar or seeine CTION of Boiler RD STE ped in this of the been over make inspector	conform  common deposition of the conform of the constructed in accordance on the construction of the constructed in accordance on the construction of the constr	pectors and the State N & INS CO of THRU 7/2, 1991 nce with Section XI of d or implied, concern-
B. Tests Cor  9. Remarks  We certify the ASME 2006  Signed  I, the undersion Province of HARTFOR and state that the ASME Coing the repair for any person	Appropries Manufa (Appropries Ma	essure 9/0 cturers Data Reports s made in this ner's Designee) e valid commis CTICUT eve inspected the my knowledge this certificate described in the	Pneumatic psi Test ns to be attach  CERTI eport are co  CERT sion issued , emplo REP [Repairs and belief, , neither the	FICATE  Prect and to  Title  T	OF COMPL  Nis PE  OF INSPEC  etional Board  E HARTFOI  descrit  enus)!  or replacemer  nor his emplie, neither the	IANCE PAIN epair or espia CTION of Boiler RD STE ped in this of has been over make Inspector connected	conform  and Pressure Vessel Ins  AM BOILER INSP  Report on 1/4/91  constructed in accordars any warranty, expresses	pectors and the State N & INS CO of THRU 7/2, 1991 nce with Section XI of d or implied, concern-

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 itselfs 1 through 4 on this date report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at she top of this form.

2. Plant P.C 3. Work Per	MILLSTO  BOX 11  formed by No  PI  stion of System.	28 WE WE HODGESS! CTHEAST  O. Bey 128 (Addr.)	ATERFO  ATERFO  Nucle  Nucle  Water	RD, Co CRD, Co Control Fond, Co	Unit	She	2 Addenda, Code C	ases
(b) Appl 6. Identifica Name of Component	name of Mfr.	of Section XI Ut nents Repaired of Mfrs. Ser. No.	Nat'l. Bd.	epairs or F I, and FlepI CRN No.	Other Identification	year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
115-190A	Cores		_		1-1	-	REPLACEMEN	- NO
NUTS	DOTEROX.				MIRIR-39	1-019		
	on of Work	REPLACE ydrostatic D	O PILL (	(8) / Nor	13/g d	B > 770	M COVER NO	773
B. Tests Co.	nducted: Hy	REPLACE ydrostatic D ressure 835 scrurer's Data Repor	Pneumatic psi Test	Temp. 5	13/0 d minel Operation	B > 77.01 g Pressure	M COVER NO	773
8 Tests Col 9 Remarks	nducted: Hi Pr (Applicable Manufe	ydrostatic Dessure 335 schurer's Data Repor	Pneumatic psi Test is to be astach	FICATE	OF COMPLI	ANCE ACCIONAL SPENO POLICE	Other D  COVER NO  Other D  COVER NO  Other D  COVER NO  OTHER  O	
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8. Tests Col 9. Remarks We certify tha ASME Code. Signed	Applicable Manufa  The statement  Towner or Own  gned, holding in	ydrostatic Dessure 335 scurers Data Report s made in this refers Designeer	Preumatic psi Test ts to be attach  CERTI eport are co  CERT sion issued emplo	FICATE rrect and to Tale by the N yed by	OF COMPLIANT ENGLAND OF INSPECTATIONAL BOARD HISTORY	ANCE ACCAM Sparror replace FR STION of Boiler TCO	Other LI  EN T conform  1/8 , 1991  and Pressure Vessel Ins	s to Section XI of

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8% 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 sheet is recorded at the top of this form.

3. Work Per  4. Identifica 5. (a) Appl  (b) Appl	formed by No Postion of System. icable Construction of Compost	O. Boy (2) tion Code (8)	Nucle Water	ford, CT	TEAM E Edition, eplacements	CUPSS - 19 80	2 Addends, Code WEI Addends, Co	c Cases
Name of Component	Name of Mfr.	Mirs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
M5-190A	COPES	-					REPAIRED	- NO
				i		3		
6. Tests Co	naturated: Mis	ydrostatic D ressure 835 700 pu PAK	Pneumatic psi Test 252	Non Temp. 50 03 - 29	ninal Operatir	REMONING Pressure	Other D	2071/10/6
Tests Co     Remarks	NUSCO (Applicable Manufa	ydrostatic [] ressure 835 DR PLUTAKE	Pneumatic psi Test 252 na to be attach	FICATE	of COMPL	IANCE	confo	rms to Section XI of t

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (3) size is 8% 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.

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PO	Box 128	Nuclear E Waterford	Ct.	06385		She	et	1
1.0.	Millstone	9009	oress)		Unit		2	
			Ct. 06	5385		1115	m2 91 - 01	1940
Work Per	formed by Non	rtheast Nu D. Box 120	clear I	Energy ford,	Ct. Sepair	Organization I	M2-91-04	
. Identifica	ation of System	CHRRG	P + VALLET	10 6 8	Edition,	-	Addenda, Code	Cases
St. 2 Knowl	Souble Edition	of Section XI Lit	ilized for Fi	epairs or t	Replacements -	- 19 <u>5</u> C	W81_Addenda, Co	de Cases
Identifica	ation of Compo	ments Repaired	or Replaced	, and Rep	lacement Com	ponents		
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'i. Ed. No.	No.	Other Identi- fication	Year Built	Replaced, or Replacement	ASME Code Stamped (Yes or No)
-18A	GAULIN	878035	-	-	MRIR 2-205-06	4 -	REPLACED	No
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P. Tests Co	anducted: F	Hydrostatic LJ	Preumatic psi Test PEENI ms to be alluct	Temp. IS	minai Uperati	APGER	ES OTTO L	AE TRANSITION
E: Tests Co	onducted: # F \$NEW B49 (Applicable Manu	Aydrostatic LJ Pressure 2300 CK B 3460 facturers Data Repo	Pheumatic psi Test C FEE VI ns to be a luci	Temp 15	OF COMPL	IANCE	RADII AT BO	NE TRANSIFION
E: Tests Co	Applicable Manu	Aydrostatic LJ Pressure 2300 CK B 3400 facturers Data Flepo Its made in this r	Preumatic psi Test PEENI ris to be attact  CERT	IFICATE	OF COMPL	IANCE PCEM	RADII A7 Bo	rms to Section XI of th
B: Tests Co  9. Remark  We certify th	Applicable Manu	Aydrostatic LJ Pressure 2300 CK B 3400 facturers Data Flepo Its made in this r	CERT	IFICATE  Orrect and  ANTI	OF COMPLETE REPL	IANCE RCEM repair or repu	RADII AT BO	rms to Section XI of th
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E: Tests Co  9. Remark  We certify th  ASME Code.  Signed  1, the under  or Province of  HARTFOR  and state th  the ASME C	signed, holding CONNEC D, CT et to the best cooe. By signin	ressure 230 D  CK B 5HO  Character's Data flepo  The wall of committee of the committee of	CERT  CERT	IFICATE orrect and IFICATE or the Iris	OF COMPLETE OF TO SPECIAL OF T	IANCE RCEM repair or repla  CTION d of Boiler  CTION bed in this cont has been lover make the Inspection connected	ENT conforment conforment 2/82 19 93  Find Pressure Vessel II EAM BOILER IN Separation of the employer shall with this inspection.	Inspectors and the State ISPN & INS CO , Garden with Section XI of the State ISPN & INS CO , Garden with Section XI of the State ISPN & INS CO , Garden with Section XI of the State ISPN & INS CO , Garden with Section XI of the State ISPN & INS CO , Garden With Section XI of the State ISPN & INS CO , Garden With Section XI of the ISPN & INS CO
E: Tests Co  9. Remark  We certify th  ASME Code.  Signed  1, the under  or Province of  HARTFOR  and state th  the ASME Coing the repa  for any pers	signed, holding CONNEC D, CT et to the best cooe. By signin	ressure 230 D  CK B 5HO  Character's Data flepo  The wall of committee of the committee of	CERT  CERT	IFICATE orrect and IFICATE or the Iris	OF COMPLETE OF INSPERIENT OF THE HARTH	IANCE RCEM repair or repla  CTION d of Boiler  CTION bed in this cont has been lover make the Inspection connected	ENT conforment conforment 2/82 19 93  Find Pressure Vessel II EAM BOILER IN Separation of the employer shall with this inspection.	Inspectors and the Statistics (SPN & INS CO estate with Section XI content of implied, content the liable in any manning t

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			ress)	00303		Sh	2	PT_make_
2. Plant P.O.	Dec 120	シーラル からからかってい	Ct. O	6385	Unit	,		
Maria David	No. No	rtheast Nu	clear	Energy	Co. /	400	1112-91-0	15623
3. Work Pen	P.	0. Box 120	"Water	ford, (	t. Repair	Organization	1112-91- ( PONO, JOD NO, 81C.	
	tion of System	(Adan	3316	100	11) 57	EAM		
<ol> <li>(a) Appli</li> <li>(b) Appli</li> </ol>	cable Constru	of Section XI Uti	lized for R	epairs or R	Edition, eplacements	- 1956,	Addenda, Code	
6. Identifica		onents Repaired o		1	1	1	T Benjad	ASME Code
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	No.	Other Identi- fication	Year Built	Replaced, Replaced, or Replacement	Stamped (Yes or No)
195-1904	COFFE	7110 - 95210		1-	-	-	KEFFIRE	110
Colone	-					1		
(A) 3 (B)		-		-	-	-		
				-				
7. Description	on of Work	ant money	i of	PLUE	70 100	A FOR	द्रम् जहारादा	1 CHANGE
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E: Tests Cor  9. Remarks.  We certify the ASME Code.  Signed  1, the undersion Province of HARTFORD  and state that the ASME Co	Applicable Manu to the statement (Owner or Own pned, holding CONNE CT to the best of	Pressure Paper Pap	CERTI port are co  CERTI con lessed emplo e REPAI (Repairs and belief, neither th	FICATE orrect and to the North Park of the North Park of the North Park of the	OF COMPL  of INSPEC  stional Board  E HARTFO  centus)  or replacement	IANCE  Paris or repla  CTION  of Boiler  ORD STE  bed in this  in has been over make	onfor Comercial Comments  and Pressure Vessel I CAM BOILER INS Report on 7-8-91 report on 2-8-91 report on 2-8-91 report on 2-8-91 report on 2-8-91	Inspectors and the Strong & INS CO.  dence with Section XI sed or implied, conce
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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.

1 Owner I	Northeast	Nuclear E	nergy (	Company	У	Dete	1/29	192
P.O.	Box 128	Waterford	f, Ct.	06385		Shee	1 /	st
SECTION AND ADDRESS OF THE PERSON NAMED IN	Millatone	10.5	oress)		Unit		2	
P.O.	Box 128 V	later ford.	, Ct. 0	6385				
	No	-+ KASSP# N	rlear	Energy	Co	AMO	M2-91-	12219
<ol><li>Work Per</li></ol>	formed by NO	Rox 199	Re Water	ford.	Ct. Repair C	organization P.	M2-91-	
		A. MAGO	ress)					
4. Identifica	etion of System	194114	STEPPE	L (8)	Edition		Addenda, Code	Cases
<ol> <li>(a) Appl</li> <li>(b) Appl</li> </ol>	licable Construction of	of Section XI U	tilized for R	epairs or F	Replacements -			ode Cases
6. Identifica	stion of Compo	nents Repaired	or Replaced	, and Rep	acement Com	ponents		
Name of	Name of	Mfrs. Ser.	Net'l.	CRN	Other	Year	Repaired,	ASME Code
Component	Mfr.	No.	Bd.	No.	Identi-	Built	Replaced,	Stamped (Yes or No)
			No.		fication		Replacement	(1650/100/
	-		-	-	1 " CW 2		repaired	PIPING "NPT" 32
ulet flange	Dravo			-	6-EB-2		1 (1-14)/14 1	177706 1017 33
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We certify the ASME Code.	et the statement	ts made in this r	epont are co	rrect and	this	spair or replace	ment)	ms to section At a tal
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Signed	(Owner or Own	AND RESIDENCE AND ADDRESS OF THE PARTY OF TH		Title	6	aste)		
			6508	.F. C. A. T. F.	OF INIEDEO	TION		
					OF INSPEC			
1, the unders	igned, holding	e valid commi	ssion issued	by the N	stional Board	of Boiler a	nd Pressure Vessel I	nspectors and the State
or Province o	CONNEC	TICUI	, emplo	yed by				PECTION & INS.
HARTPORI	CT +	eve inspected to	he REPA	IR	describ	ed in this F	Report on FEBRU	ARY 24 , 1992
			SMEDEINS	DI MEDIEDET	nerit(s)]		onemieted in scened	
and state the	t to the best of	my knowledge	and belief.	this repair	or replacemen	i has been c	TOURSEL POPULAR OF MERCAL	ance with Section Al of
the ASME C	ode. By signing	this certificate	, neither th	e inspecto	r nor his emplo	oyer makes i	eny werranty, expres	ance with Section XI of sed or Implied, concern-
the ASME Co	ode. By signing r or replacement	this certificate described in the	, neither the	e Inspecto Furthermo	r nor his emplo re, neigher the	oyer makes i Inspector n	or his employer shall	ance with Section XI of sed or implied, concern- be liable in any manner
she ASME Co ing the repair for any perso	ode. By signing r or replacement that injury or pr	this certificate t described in the operty damage	, neither the his Report. I or a loss of	e Inspecto Furthermo	r nor his emplo re, naisher the riging from or a	Inspector necession	any warranty, expressor his employer shall with this inspection.	sed or implied, concern- be liable in any manner
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	Box 128	Waterfor	d, Ct.	06385	У	Sh	eet	1
n Pinet	Millstone	e (A)	ooress)		Unit		2	
P.O.	Box 128	waterford						i/+/
3. Work Perf	ormed by Not	rtheast N	uclear 8°Water	Energy ford.	Ct. Repair C	HWO Organization	M2-91-122 FOND, JOB NO., #1C.	44
			(mark)	-	ON STEA			
4. (dentificat	tion of System	tion Code & A					Addenda, Code C	ases
(b) Appli	cable Edition o	of Section XI U	tilized for F	Repairs or 1	Replacements -	- 19.50.	WBI_Addenda, Code	
6. Identificat	tion of Compo	nents Repaired	or Replace	d, and Rep	lacement Com	ponents	1	
Name of Component	Name of Mtr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-2208	MASONEILIA	N	N/A	NA	_	_	REPAIR	NO
2400		N-00126-						
8) 5/8"x3"26	SE MULL	N/A	N/A	NA	MRIR	-	REPLACEMENT	NO
193, 88 50	os .				390-291-1			
	1	The state of the state of	BONGLET	CASK	ET SEPTI	NG SE	RFACE	
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(b) Applic	cable Edition of tion of Compor	nents Repaired	or Replaced	and Repl	acement Comp	ponents		
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D Owner	). Box 128	Waterford	dr. Ct.	06385		She	te/	01
. Plant.	Millston	e (Ac	oress)	2003	Unit		2	
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HARTFO	ORD, CT	* heve inspected to	he MACH	ING REF	entis)	bed in this		
the ASME	Code. By signing	this certificate	and belief, neither the	this repair of the sector withermore	or replacement nor his empli e, neither the	oyer make: Inspector	any warranty, expres	dance with Section XI is used or implied, concer- tibe liable in any mann
tor any pe	secretary and desired their bear		1 11				NAME OF STREET	

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		(Addre	101	down	J			
(a) Appl (b) Appl	icable Edition	reins trade ASA9E	III 42 1 lized for Fil	97/ epairs or F	Edition,	1980,	Addenda, Code C	ce Cases
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l, Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes o: No)
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	۲.	U. BOX IZT		- Carrier and Carr				
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Name of Component	Name of Mfr.	No.	Bd.	No.	Identi-	Built	Replaced,	Stamped
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or Province of	And the second s		DTSC	DDI MAT			(10 7.837)	ARY93
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and state that	to the best o	if my knowledge	and belief,	this repair s	or replacemen	nt hes been	constructed in accordan	ice with Section XI o
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Owner No	ortheast	Nuclear E	nergy C	ompany		Date	FEBRUNRY	1 .
P.O. E	30x 128	Waterford	, Ct.	06385		She	e1	
D D 1	Millstone Box 128 W	atbeford.	Ct. 06	385	Unit			
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		PERCE	OR CO	OLAN	7			
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Name of component	Name of Mfr.	Mfrs. Ser.	Nat'l, Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or	ASME Code Stamped (Yes or No)
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-	Nor	+ KK8594 No	clear !	Energy	Co A	WO M	2-92-18622 ONC JODNO FIL	
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(a) Applia	cable Construct	tion Code III.22.	illized for R	epairs or Re	eplacements	- 1980,	481 Addenda, Code	Cases
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Date 20	April 19	193 C	La S Dy	hon Ja	Comm	issions4	Sikle of Province, N	anonal floato)
		4 1 -4 11 -	verend .	er drawing	n mey be used	provided	(1) size is 8% in. X 11 in	w .

Note: Supplemental sheets in form of lists, exercises, or drawings may be used provided (1) size is 8% in, X 11 in.,

(2) information in items 1 through e-on this data report is included on each sheet, and (3) each sheet is numbered at the number of sheets is recorded at the top of this form.

	Northeast					Dat	04-09	- 93
P.O.	Box 128			06385		She	e1	1
2. Plant	Millstone		dress)		Unit		2	
-	Box 128 W							/
3. Work Pe	rformed by Nor	theast Nu	uclear BeWater	Energy ford,	Co. Repair	M2-9 Organization P	2-08955/	08443
		15.00	owner)	-				
5. (a) App	licable Construct	inn CorteANKI	B31771	10 /27	Estision		STEM - DENE	*
(b) App	licable Edition of	f Section XI Ut	ilized for R	epairs or l	Replacements	- 19 86 J	MA Addenda, Code	de Cases
). Identific	ation of Compor	nents Repaired	or Replaced	, and Rep	lacement Con	ponents		
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
" P.DE	BECHTEL	A 1-1		-	PEN#48	1971	REPAIR	1-
CAP	A sally de l'A Alberta				LECYTP 10	1771	KLIHIC	NO
CAF	-			-				
	1	لنستنست	-		لسنط			
	Pre Pre	AS PER	PORMER	Jemp. 7	1 °F		Other & ST.	RUTURE 12-23
			CEDTI	ELCATE	OF COMO	LANCE		
Annual Control					OF COMPL			
ASME Code.	it the statements	made in this re	port are cor	rrect and t	The second secon	EPAIR epair or replacer	METHODOLOGICAL STREET, ST. S.	ns to Section XI of the
Signed V	Longs la	Quin Ve	e free	755	11	-19	19 9 3	
argnes	(Dwner or Owne	os Designee)	7 7	Sittle	- 64	-09 Date)	. 19 7 -	
			4 ~					
					OF INSPEC			
								spectors and the State
r Province of		CUT	, employ	ed by Th	HE HARTF	ORD STEA	AM BOILER INS	PN & INS CO of
HARTFORI	D, CT have	ve inspected the		mention is bridge our expression.	describ	ed in this F	eport on 20 DEC	The street of the
			Manairie	opheplacem				EMBER 1092
and state that	to the best of a	ny knowledce a	ind belief #	his renair	eni(s))			
the ASME Co	de. By signing t	this certificate,	neigher the	his repair	ent(s)) or replacemen nor his emplo	it has been co	onstructed in accorda	nce with Section XI of
the ASME Co	de. By signing to or replacement of	this certificate, Sescribed in the	neigher the Report. Fi	his repair inspector urthermore	ent(s)) or replacemen nor his emplo e, neither the	t has been co over makes a Inspector no	onstructed in accorda ny warranty, express or his employer shall b	
ne ASME Co ng the repair or any persor	or replacement of all injury or prop	this certificate, Sescribed in the	neigher the Report. Fi	his repair inspector urthermore hy kind ar	ent(s)) or replacemen nor his emplo e, neither the	nt has been co over makes a Inspector no connected w	onstructed in accorda iny warranty, expresse or his employer shall t ith this inspection.	nce with Section XI of
ing the repair for any persor	de. By signing to or replacement of	this certificate, Sescribed in the	neigher the Report. Fi	his repair in Inspector urthermore ty kind ar YORK	ent(s)) or replacemen nor his emplo e, neither the	thas been copyer makes a Inspector no connected w	onstructed in accorda ny warranty, express or his employer shall b	nce with Section XI of ed or implied, concern- be liable in any manner

Note: Supplemental sheets in form of Usts, sketches, or drawings may be used provided (1) size is 8% 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.

	Box 128	Waterford	nergy ( Te) Ct.	06385			te	. /
Plant 1	Millstone	(Add	ress)		Unit	500	2	©1
		Waterford,					1.0	
. Work Perio	P.(	rtheast Nu D. Box 128	clear i	Energy ford, (	CO. t. Repair	AWO Organization	No. MZ-	92-15088
Identificati	ion of System	(Adon	AU	X PE	DWA7ER		961 Addenda, Coo	CIASS
(b) Applic	able Edition c	of Section XI Uti nents Repaired o	lized for Fu	epairs or R	eplacements :	- 19 BO	WINTEL Addenda, C	ode Cases 2 2
Name of Component	Name of Mfr.	Mfrs. Ser. No. MPSN No.	Nat'l, Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
"- 90° ELBOW	HUB	188-181-3	NA	AN	NA	NA	REPLACED	NA
- STRAWNT	TIOGA	391-246-1	AN	AM	NA	NA.	REPLACED	NA
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							ONE FOR	ONE.
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Description Tests Conc	ducted: H Pr	ydrostatic 🛭 1	Pneurnatic psi Test	Non-	inal Operation			ONE.
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Ne certify that ASME Code.  The undersign of HARTFORD, and state that the ASME Code of the repair of	the statement CONNECT his to the best of e. By signing ir replacement injury or pro	ydrostatic (2) ressure /250 acturers Data Report is made in this re, ler's Designee)  a valid commissi ICUI  eve Inspected the my knowledge a this certificate, described in this operty damage or	CERTII  CERTII	FICATE I  FICATE I  FICATE I  FICATE  FICATE  by the Na  red by TH  CEMENT  or Replacements repair of  Inspector  unthermore  my kind egi	OF COMPL  IS REPUT  OF INSPECTIONAL BOARD  TO HARTFO  IN TEPLOCEMENT  TO TEPLOCEMENT  TO THE THE TEPLOCEMENT  TO THE TEPLOCEMENT  TO THE TEPLOCEMENT  TO THE T	IANCE ACEMENT Pare Place CTION of Boiler ORD STE bed in this in has been byer makes Inspector re	conforment)  and Pressure Vessel  AM ROILER INS  Report on 09 DEC	Inspectors and the St

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P.O.	Box 128	Nuclear E Waterford	, ct.	06385		Sh	eer / c	N	
1 101	Millston	(Aoi	Oress)		Unit		2		
D 0	Roy 178	Waterfold.	Ct. 0	6385	- A 1		02 12	204	
Work Pe	formed by No	O. Box 120	clear   Water	Energy ford, (	Ct. Repair	WO ,	M2-92-13	Q 1.F	
	-	16,600	merca)						
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Sect. Amer.	tionbin Edition	of Section XI Ut	ilized for M	epairs or h	eplacements	- 1950,	Addenda, Co	de Cases	
. Identific	ation of Comp	onents Repaired	or Replaced	i, and Repl	acement Com	ponents			
Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CFIN No.	Other Identi- fication	Year Built	Replaced, or Fieplacement	ASME Co Stampe (Yes or N	d
0,700	100.00	VP2-0634-V	'W'	-	-	-	REPAIR	'w'	(YES)
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					3			and the same of th	A STREET, SQUARE STRE
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B: Tests Co  9. Remark  We certify th  ASME Code.  Signed  I, the unders  or Province of  HARTFOR  and state the  the ASME C	es the statement of CONNEC Dr. CT	Hydrostatic La Pressure & & Control & & Control & & Control & Cont	CERTI  CE	FICATE  OFFICATE  OFFICATE  Dy the No  OFFICATE  Dy the No  OFFICATE  Dy the No  OFFICATE  Dy the No  OFFICATE  OFFI	OF COMPL his RE  OF INSPEC  etional Board HE HARTE  ent(s)) descrit ent(s)) descrit ent(s) descrit entreplacement nor his empl e, neither the	IANCE PAIR epair or repta FEG  Detel  CTION of Boiler ORD ST bed in this not has been over make Inspector	end Pressure Vessel I EAM BOILER IN Report on 01 MAR a constructed in accord s any warranty, expres	nspersors and t	he State CO of 1993 on XI of concern
B: Tests Co B. Remark  We certify th  ASME Code:  Signed  I, the undersor Province of  HARTFOR  and state the  the ASME Co	es the statement of CONNEC Dr. CT at to the best of ode. By signing the property of the control	Hydrostatic La Pressure & & Control & & Control & & Control & Cont	CERTI  CE	FICATE  OFFICATE  OFFICATE  Dy the No  OFFICATE  Dy the No  OFFICATE  Dy the No  OFFICATE  Dy the No  OFFICATE  OFFI	OF COMPLETE OF INSPECT OF INSPECT OF THE HARTE OF THE HAR	IANCE PRIN epair or repta  FES  Oete  CTION  of Boiler  ORD ST  bed in this nt has been over make Inspector connected	end Pressure Vessel I  EAM BOILER IN Report on 01 MAR a constructed in accord s any warranty, expres	nspersors and t	he State CO of 1993 on XI of concern

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	Of Lifeast	Nuclear E	nergy I	Lompany		Dat	e	3 - 93
Annual Control of the		Waterford	gress)	06385		She	et	4
P.O.	Millstone Box 128 V	waterford,		6385	Unit			
3. Work Perf	ormed by Not	rtheast No D. Box 199	uclear	Energy	CO. Repair	AW Organization F	0 MZ-92	14959
	r.1	J. DUX IZT	78.56) /					
4. Identificat	tion of System		Ch	019/17)	Falleline		Addends Code	Cores
<ol> <li>(a) Appli</li> <li>(b) Appli</li> </ol>	cable Construct	tion Code Pan of Section XI Ut	tilized for R	epairs or F	Edition, leplacements	- 1980,	48 Addenda, Code	de Cases
<ol> <li>Identification</li> </ol>	tion of Compo	nents Repaired	or Replaced	, and Repl	acement Com	ponents		-
Name of Component	Name of Mir.	Mfrs, Ser. No.	Nat'L Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
-04-433	Velan	933-1			MRIR	1974	replaced	No -ses rem
					MP-V-			
					134			
			10000					
	iducted: H	velrostatic E	Pneumatic	D Nor	ninel Operation	machini ng Pressure	of to bufferedd,	welded in plant
<ol><li>Tests Cor</li></ol>	ducted: H	ydrostatic 😂	Pneumatic	D Nor	ninel Operation	ng Pressure	U Other U	
<ol><li>Tests Cor</li></ol>	ducted: H	ydrostatic 😂	Prieumatic psi Test to CLA ris to be attach R 1 15 141	Temp. 5:	ninel Operation 53°F A NCR	292- 292-	of to bufferedd,  Other D  651; Cone  901	
8. Tests Con  9. Remarks.	VAIVE Way  VAIVE Way  Applicable Manufi  Wells  t the statement	velrostatic B ressure 2310 VP quaded acturer's Data Repo 9 CC can to made in this n	Prieumatic psi Test to CLA ris to be attach R I ISH	FIGATE	of COMPL	292- 292- 292- IANCE la Centa	651; Coni 901	ms to Section XI of the
B. Fernarks.  B. Remarks.  B. H. T.  B. We certify the ASME Code.	VAIVE Way  VAIVE Way  Applicable Manufi  Wells  t the statement	ydrostatic B ressure 2310 ) Up an Aca acturer's Data Repo	Pneumatic psi Test no CLA ris to be attach p i sphi  CERTI eport are co	FIGATE  Prect and t  Mate	of COMPL	292- 292- 1ANCE la Centa repair or replace ge	D Other D  651; Cons  901  mt confor	ms to Section XI of the
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B. Fernarks.  B. Remarks.  B. Hernarks.	VAIVE Way	ressure 2310  Opgrades acturer's Data Report (Com ts made in this n  Letter her's Designee)	Pneumatic psi Test Ac CLA ris to be attach R I ISH CERTI eport are co CERT stion Issued , emplo	FIGATE  Prect and to  Mote  True	OF COMPL  OF INSPER	292- 292- ANCE ACENTA POPULA TO T	Other D  651; Cons  901  mut conformation  Fam 18, 19, 9, 19, 19, 19, 19, 19, 19, 19, 19,	ms to Section XI of the  3  Inspectors and the State SPN & INS CO of
8. Tests Con 9. Remarks.  **Left  We certify the ASME Code.  Signed  I, the undersit or Province of HARTFORD  and state that the ASME Coing the repair.	the statement of the st	yelrostatic El ressure 2310  O pay model acturer's Data Report Commits made in this made in the commits of the c	Pneumatic psi Test re CLA ris to be attach R I SEPT  CERTI eport are co  CERT sion Issued , emplo re RPLMN, [Fierpairs and belief], , neither th	FICATE  Prect and to the Noved by the Noved by Tepair  Inspector of the precent o	of completions barrends of the serious barrends of the	292- 292- 292- ANCE ACENTA TEPATRO TEPATRO TO TO TEPATRO TO TEPATR	end Pressure Vessel In AM BOILER INS Report on 08 JAN constructed in accordany warranty, express	ms to Section XI of the  3  Inspectors and the State SPN & INS CO of

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Owner_IV	OLTHEODY 1	Nuclear En	e) r +	06385		Sher	tof_	
P.O.	Box 128	waterioro,	V V .	00300			2 01	
Plant	Millstone	aterford,	Ct. 06	385	Unit			
P.0.	BOX 120 W	SECTION CS	700 E	norav	Co. 9	mo m	12-92-140	20
Work Peri	ormed by Nor	Box 128°	Waterf	ord, C	t. Repair C	Diganization Fil	NZ - 97 - 140	
		(ACOTES		Q			Addenda, Code C	
(a) Appli (b) Appli	tion of System. icable Construct icable Edition of	tion Code ASH	E 311 1	9.74	Edition, eplacements	- 1980, M	JR I Addenda, Code	Cases
Edentifica Name of omponent	Name of Mfr.	Mirs. Ser.	Nat'l. Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Fumped (Yes or No)
			N/A	NIA	N/A.	1989	Replacement	Yes
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				-	-	1		
MALE.		1			-	-		
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-	tion of Work	to other persons as a little	Pheumatic	LJ INO	miner solemen	The second	BB Prock	
Tests Co	200M	resour 2345	psi Test	Temp. 1	miner solemen	The second	8B 610CK B Other D	
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B: Tests Co	Wooley Warry	resoure 2345 resoure 2345 resoure 2345 resoure 345	Prieumatic psi Test to to be atlact	Temp. 1	OF COMPI	+ A	600 ps:	bez
Remark  Remark  We certify the	Wooley Warry	resoure 2345  MOCHUS  Lacturer's Data Flapor  ADAG  TO T	Preumatik psi Tesi C. C. S. ts to be attact C. C. C. CERT	Temp. 1	OF COMPI	LIANCE Proper or reput		pcs
Remark  Remark  We certify the	Applicative Avanuation of the State of the S	resoure 2345  MOCHUS  Lacturer's Data Flapor  ADAG  TO T	CERT	IFICATE orrect and	OF COMPI	LIANCE  DIACEM  Pepair or reput  MAGECY  FORTE	conformation	pcs
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Remark  Remark  Remark  A Me certify the ASME Code.  Bigned	Applicative Avanuation of the State of the S	resoure 2345 resoure 7345 resoure 7345 resoure 7345 resoure 8 Deta Fepor Rose In this re Rose Poesigned	CERT	IFICATE Orrect and	OF COMPI	LIANCE  DIOCEM  Pepair or repus  Conte	conformation of Pressure Vessel In	ms to Section XI of the
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identifica	tion of System.	MAIN	STEPM		2/2 5		Addends, Code	Cases
(a) Appli	cable Construct	tion Code Pur	of a period	epairs or f	Replacements -	19.80	W81 Addenda, Con	de Cases
(b) Appli	tion of Compor	ne has Repaired	or Replaced	and Repl	lacement Comp	onents		
Name of omponent	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other identi- fication	Year Built	Replaced, or Replacement	ASME Code Stamped (Yes or No)
A17 1 50			-	-	1-1	-	REPAILED	NO
MS 65B	VELMIN			1				
4 10 20	-		-	-				
Nr. 68 E	1		-		MRIA	-	REPLACE	NO
WARTLIA	VELLIN	-	-	-	252-108-7			
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Name of Component	Name of Mfr.	Mfrs. Ser, No.	Nat'l. Bd. No.	CRN No.	Other Identi- fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
	NCHOK. DAPLING		-	-		-	REPAIRED	No
			-					
) Description	of Work &	ELD REF	PAIN A	NDA	IACHININ	e of	SHAFT COVER	GASKET SEATING
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(2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered the number of sheets is recorded at the top of this form.

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51-227	ATWOOD &	-	495	-	791-200-1	51405	REPLACEMENT	1/3
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1. Owner Northeast Nucle P.O. Box 128 Water	ar f	TOTISIONS OF A	ASME Cod	e Section XI	
P.O. Box 128 Water				Date_ 1/27	162
2. Plant Millstone	(Address)	06385		Sheet /	173
P.O. Box 128 Us+Week	ord. Ct ne	Unit_			of
3. Work Ferformed by North STE	N2	305			
P.O. Box	Muclear En	ergy Co. D	esser bol	lust news	
4. Identification of 5	(Address)	rd, Ct. Re	pair Organizati	on P.O. No. 300 No., etc	482 MAIR *292-087
3. Work Performed by Northesis P.O. Box  4. Identification of System 5. (a) Applicable Construction Code I (b) Applicable Edition of Section x	Main	Steam			
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ms-244 Dressor BN 4970	THE RESERVE OF THE PARTY OF THE	PSV 4235	-	Roperined	NV-2
MS 248 Direster BN4975	NB	13V 4238	1973	Repaired	NV-2
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ms 250 Dresser BN 4971.	Ne I	1	1973	Repained	NV-2
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