Docket No. 50-336
B13325

Attachment

Millstone Nuclear Power Station, Unit No. 2

1989 In-Service Inspection Report

July 1989

Section 1

Table Of Contents

NUSCO

TABLE OF CONTENTS

Section 2

Owner's Data Report NIS-1

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Northeast Nuclear Energy Company, P. O. Box 270, Hartford, CT 06101
(Name and Address of Owner)

2. Plant Millstone Nuclear Power Station, P. O. Box 128, Waterford, CT 06385
(Name and Address of Plant)

3. Plant Unit 2 4. Owner Certificate of Authorization (if required) NA

5. Commercial Service Date 12/26/75 6. National Board Number for Unit 20914

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel FLG to Shell Weld	M-CE Inc.	67110	NA	20914
SG#2 Bottom Head to Tube Sheet Weld	M-CE Inc.	67511	NA	20929
Reactor Vessel Int. (Visuals)	M-CE Inc.	67110	NA	20914
Loop Piping Welds	M-Bechtel	502-19	NA	NA
PRZ. Bottom Head Welds	M-CE Inc.	NA	NA	20918
Safety Int. Piping Welds	M. Dravo	NA	NA	NA
PRZ. Spray & Safety Lines	M. Dravo	NA	NA	NA
Reactor Head Bolting	M-CE Inc.	NA	NA	NA
RCP Bolting and Supports	M-CE Inc.	NA	NA	NA
SG#2 Lug Supports	M-CE Inc.	67511	NA	20929
Class I Valve Bolting	Various	NA	NA	NA
SG#1 Nozzle & Inner Radius	M-CE Inc.	67510	NA	20928
Class 1,2 & 3 Supports	Various	NA	NA	NA
SG #1 Tubing	M-CE Inc.	67510	NA	20928
SG #2 Tubing	M-CE Inc.	67511		20929

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.

This form (E00029) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-1 (back)

8. Examination Dates 1/24/89 to 4/13/89 9. Inspection Interval from 12/26/85 to 12/26/95

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Section 6 of the attached report for Class 1, Class 2 Examinations including the IWF Supports.

11. Abstract of Conditions Noted

See Section 7 of the attached report.

12. Abstract of Corrective Measures Recommended and Taken

See Section 12 of the attached report.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date July 27 19 89 Signed NNECO By R A Blanchard
Owner

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

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of CT and employed by HSB & I of Hartford have inspected the components described in this Owners' Data Report during the period 1/24/89 to 4/13/89, 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 7/27 19 89

R. L. Zoner Commissions CT 1119
Inspector's Signature National Board, State, Province and No.

Section 3

Abbreviations And Acronyms

ABBREVIATIONS AND ACRONYMS

81W	-	ASME Section XI, Winter 1981 Addenda
ANII	-	Authorized Nuclear In-Service Inspector
AR	-	ANII Reviewed
Cal. Block	-	UT Calibration Block
CEDM	-	Control Element Drive Mechanism
ISI	-	Inservice Inspection per ASME Section XI
LP	-	Liquid Penetrant
LR	-	Level III Reviewer
MT	-	Magnetic Particle Testing
NU	-	Northeast Utilities
NUSCO	-	Northeast Utilities Service Company
PR	-	Plant Reviewer
PT	-	Liquid Penetrant Testing
UT	-	Ultrasonic Testing
VT	-	Visual Examination

Section 4

Introduction

INTRODUCTION

1. 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.

2. 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.

3. All items listed in this report are creditable items to the second period of the Second Interval In-Service Inspection Ten Year Class 1 and Class 2 program, with the exception of:

   A. The additional visual examinations required to meet IWF-2430 (a) or (b).

   B. Augmented visual examinations of the pressurizer spray line to meet the requirements of NRC Bulletin #88-11.

   C. Augmented visual examinations imposed by the NUPOC ISI coordinator to satisfy the requirements of IWF-3400 relative to nonconforming support #SIAH-02. This support was not scheduled to be examined during this refueling outage but was reported to be nonconforming.

   D. The B-G-2 category valve flange bolting (1-1/8" dia.) replaced on valve numbers RC-200 and RC-404. This new bolting was liquid penetrant examined to satisfy an "up-grade" requirement and visually examined to satisfy the preservice requirement.

   E. Since the 1989 refueling outage was close to the end of the first period and the start of the second period, several items noted in Section VI of this report will be creditable to the first period.

4. The examinations listed in this report were performed by personnel from the Northeast Utilities Service Company, Nuclear Engineering and Operations Group, EBASCO Services Incorporated, and Combustion Engineering Incorporated.

5. The rescheduled items listed in Section IV of the 1988 Refueling Outage Summary Report have been examined during this refueling outage. Examination credit will be applied to the first period of the second interval to meet the percentage requirements of IWB-2412.

Section 5

Procedures And Personnel Qualifications

PROCEDURE LIST

NUSCO

Number	Revision	Description
NU-LP-1	8	Liquid Penetrant Examination
NU-MP-1	7	Magnetic Particle Examination
NU-UT-1	7	Ultrasonic Examination Procedure for General Requirements
NU-UT-2	6	UT Procedure for Austenitic and Dissimilar Metal Piping Welds
NU-UT-7	3	UT Procedure for Vessel Welds
NU-UT-16	2	UT Procedure for Pressurizer Support Structure Welds
NU-UT-17	3	UT Procedure for Nozzle to Safe End Welds at MP2
NU-UT-20	3	UT Procedure for Nozzle Inner Radius Areas at MP2
NU-UT-23	3	UT Procedure for Component Bolts and Studs
NU-UT-26	1	UT Procedure for Primary Coolant Pipe Welds at MP2
NU-VT-1	8	Inservice Visual Examinations

Combustion Engineering

Number	Revision	Description
MP-410-003	0	UT of the Reactor Vessel to Shell Weld from the Flange Mating Surface

PERSONNEL LIST

EBASCO Services Incorporated

Name	Methods/Levels				Date of Eye Certification
	VT	PT	UT	MT	
1. R. Barnes	III	II	III	-	01/12/89
2. J. Busby	II	II	II	II	01/10/89
3. W. Chabotte Jr.	-	II	I	--	02/05/89
4. D. Dufrene	-	I	I	-	11/10/88
5 M. Grell	II	II	II	-	02/09/89
6. M. Hahn	-	1T	1T	1T	05/03/88
7. A. Jay Harry	-	II	II	II	07/12/88
8. P. Kovalovich	II	II	II	II	09/30/88
9 V. Mondragon		II	1T	II	10/17/88
10. T. Oddson	I	1T	I	1T	09/07/88
11. O. Saulter	II	II	II	II	08/18/88
12. S. Spindler	II	-	-	-	01/19/89
13. E. Sullivan	II	II	-	II	02/05/89
14. L. Valenzuela	II	II	II	II	05/18/88
15. R. Zieber	III	III	-	III	09/23/88

NUSCO

Name	Methods/Levels				Date of Eye Certification
	VT	PT	UT	MT	
1. T. Davis	II	II	II	II	10/13/88
2. P. Durand	II	II	II	II	08/04/88
3. R. Fuller	II	III	III	III	07/26/88
4. J. Pinto	II	II	II	II	02/09/89

Combustion Engineering Inc.

Name	Methods/Levels				Date of Eye Certification
	VT	PT	UT	MT	
1. D. Hartel	-	-	I	-	01/16/89
2. R. Michalski	-	-	II	-	02/13/89

Section 6

Equipment And Material List

ULTRASONIC TEST INSTRUMENT LIST

Manufacturer	Model	Serial Number
KB	USL-38	180453
KB	USL-38	180454
KB	USL-38	210895
KB	USL-48	213051
KB	USL-48	213222

MAGNETIC TEST INSTRUMENT LIST

Manufacturer	Model	Serial Number
Magnaflux	H-820R	87933
Parker Probe	DA-200	8947
Parker Probe	DA-200	8698

NDE MATERIAL LIST

Manufacturer	Item	Type	Batch #
Echo Laboratories	Couplant	Ultragel II	8868
Magnaflux	Cleaner	SKC-NF/ZC-7B	88A004
Magnaflux	Penetrant	SKL-HF/S	87F083
Magnaflux	Penetrant	ZL-54	86C03W
Magnaflux	Developer	SKD-NF/ZP-9B	87M020
Magnaflux	Developer	ZP-4B	85C050

ULTRACONIC TRANSDUCER LIST

Manufacturer	Frequency	Size	Serial Number
Aerotech	2.25 MHZ	1/4" dia.	F24762
Aerotech	2.25 MHZ	1/2" dia.	D27724
Aerotech	2.25 MHZ	1/2" dia.	K27620
Aerotech	2.25 MHZ	3/4" dia.	C13628
Aerotech	2.25 MHZ	3/4" dia.	E09696
Aerotech	2.25 MHZ	1-1/8" dia.	K11584
Aerotech	2.25 MHZ	1/2" x 1"	H25835
Aerotech	2.25 MHZ	1/2" x 1"	J27831
Aerotech	2.25 MHZ	1/2" x 1"	J27832
Aerotech	2.25 MHZ	1/2" x 1"	J27833
Megasonics	1.0 MHZ	1/2" x 1"	CSS 105/ CSS 106
RTD	2.0 MHZ	2(10x18)	86-76

ULTRASONIC CALIBRATION BLOCK LIST

Block Number	25203-29449 Drawing Number	Revision
UT-2	Sheet #7	2
UT-4	Sheet #5	1
UT-7A	Sheet #11	1
UT-15	Sheet #30	1
UT-16	Sheet #31	1
UT-20	Sheet #3	1
UT-21	Sheet #1	1
UT-27	Sheet #20	1
UT-28	Sheet #21	1
UT-29	Sheet #22	1
UT-32	Sheet #24	1
UT-34	Sheet #15	1

Section 7

Conditions Noted

CONDITIONS NOTED

1. Volumetric, surface, and visual examinations were performed, as required, by the ASME Boiler and Pressure Vessel Code, Section XI, 1980 Edition, including the 1981 Winter Addenda. However, the extent of the examinations for Class 1 (B-J) and Class 2 (C-F and C-G) are determined by the 1974 Edition, including the 1975 Summer Addenda, as required and/or permitted by 10CFR50.55a.

2. Two sets of valve flange bolting were replaced on valves RC-200 and RC-404 this refueling outage. See Section VI, Category B-G-2, for the preservice examination results.

3. Class 1 and 2, component supports were corrected in accordance with standard component maintenance procedures.

Section B

Class 1 Examination Results

CLASS 1 EXAMINATION RESULTS

CATEGORY B-A

Examination Area: Pressure Retaining Welds in Reactor Vessel

Examination Method: Volumetric (UT)

ITEM NUMBER	RESULTS	REMARKS
FS-1	Acceptable	Examined 50% of this weld as permitted by Note 5, of Table IWB-2500-1. Note 10

CATEGORY B-B

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

Examination Method: Volumetric (UT) 0° - 45° - 60° scans

ITEM NUMBER	RESULTS	REMARKS
PR-BHS-1	Acceptable	Scanning limitations due to permenant insulation bracket, examined approximately 97 percent of the required volume.
PR-LSL-1	Acceptable	Long seam. Note 10
PR-USL-1	Acceptable	Long seam
SG-2-BHC-2	Acceptable	Indications seen on 45° and 60° scans are acceptable in accordance with IWA-2232. Note 10
SG-2-BHV-1	Acceptable	Long seam. Note 10
SG-2-BHV-3	Acceptable	Long seam. Note 10
SG-2-BHV-5	Acceptable	Long seam. Note 10
SG-2-BHV-7	Acceptable	Long seam. Note 10

CATEGORY B-F

Examination Area: Pressure Retaining Dissimilar Metal Welds

Examination Method: Volumetric (UT); Surface (PT) or (MT)

ITEM NUMBER	RESULTS	REMARKS
BPD-C-2001	Acceptable	PT. Note 10
BCH-C-2001	Acceptable	PT
BSI-C-2001	Acceptable	UT and PT
BPD-C-4000	Acceptable	PT
BSI-C-4000	Acceptable	UT and PT
P-13-C-1	Acceptable	UT and a combination of MT and PT. Note 10
P-14-C-3	Acceptable	UT and PT
P-17-C-1	Acceptable	UT and PT. Note 10
P-18-C-3	Acceptable	UT and PT

CATEGORY B-G-1

Examination Area: Pressure Retaining Bolting Greater Than Two Inches in Diameter

Examination Method: Volumetric (UT) 0° Scan; Surface (MT); Visual (VT)

ITEM NUMBER	RESULTS	REMARKS
N-01 thru N-18	Acceptable (MT)	N-15 nut indication seen with MT is acceptable in accordance with IWB-3515.1(b). Note 10
N-19 thru N-36	Acceptable (MT)	None
S-01 thru S-18	Acceptable (MT)	S-07; S-08 and S-13 stud indications seen with MT are acceptable in accordance with IWB-3515.1(b). Note 10
S-19 thru S-36	Acceptable (UT & MT)	S-21A, S-25, S-26, and S-33 stud indications seen with MT are acceptable in accordance with IWB-3515.1(b)
W-19 thru W-36	Acceptable (VT)	W-24, W-25, W-27, W-33, W-35, and W-36 indications seen visually have been determined to be acceptable per engineering judgment
RP-40D-S-01 thru RP-40D-S-16	Acceptable (UT)	Reactor coolant pump studs. Note 10

*The surface examination (MT) performed on these items is for second interval, first period credit. S-01 thru S-18 were ultrasonically examined in 1988.

CATEGORY B-G-2

Examination Area: Pressure Retaining Bolting Two Inches in Diameter and Less

Examination Method: Visual (VT)

ITEM NUMBER	RESULTS	REMARKS
PR-B-2	Acceptable	None
SI-227	Acceptable	Valve pivot cover and bonnet bolting
SI-706B	Acceptable	Valve bonnet bolting
SI-247	Acceptable	Valve pivot cover and bonnet bolting. Non-relevant bonnet bolting indications were accepted by Engineering
RC-200	Acceptable	Valve bonnet and flange bolting. The flange bolting was replaced, the new bolting was PT'd as an upgrade requirement and visually examined for pre-service
RC-403	Acceptable	Valve bonnet bolting
RC-404	Acceptable	Valve bonnet and flange bolting. The flange bolting was replaced, the new bolting was PT'd as an upgrade requirement and visually examined for pre-service
RC-035C	Acceptable	Valve bonnet bolting
RC-035D	Acceptable	Valve bonnet bolting
RC-232	Acceptable	Valve bonnet bolting

CATEGORY B-H

Examination Area: Intergal Attachments for Vessels

Examination Method: Volumetric (UT)

ITEM NUMBER	RESULTS	REMARKS
PR-SUP-C-1	Acceptable	Indications seen with UT were determined to be geometric in nature and therefore nonrelevant

CATEGORY B-J

Examination Area: Pressure Retaining Welds in Piping

Examination Method: Volumetric (UT) and Surface (PT) or (MT) 4" and Over Diameter Pipe Size; Surface Only (PT) Less Than 4" Diameter Pipe Size

ITEM NUMBER	RESULTS	REMARKS
P-11-C-1	Acceptable	UT and MT. Indications seen on 45° and 60° scans are acceptable in accordance with IWA-2232
P-11-C-1-A	Acceptable	UT and MT
P-11-C-2	Acceptable	UT and MT. Indications seen on 45° and 60° scans are acceptable in accordance with IWA-2232
P-11-L-1-A	Acceptable	UT and MT. Long seam
P-11-L-2-A	Acceptable	UT and MT. Long seam
P-11-L-3	Acceptable	UT and MT. Indications seen on the 45° scan are acceptable in accordance with IWA-2232. Long seam
P-11-L-3-A	Acceptable	UT and MT. Long seam
P-11-L-4	Acceptable	UT and MT. Long seam
P-11-L-4-A	Acceptable	UT and MT. Long seam
P-13-L-1	Acceptable	UT and MT. Long seam
P-13-L-2	Acceptable	UT and MT. Long seam
P-14-L-3-A	Acceptable	UT and MT. Long seam
P-14-L-4-A	Acceptable	UT and MT. Long seam
P-16-C-3	Acceptable	UT and MT
P-16-L-1-A	Acceptable	UT and MT. Long seam

CATEGORY B-J (Continued)

Examination Area: Pressure Retaining Welds in Piping

Examination Method: Volumetric (UT) and Surface (PT) or (MT) 4" and Over Diameter Pipe Size; Surface Only (PT) Less Than 4" Diameter Pipe Size

ITEM NUMBER	RESULTS	REMARKS
P-16-L-2-A	Acceptable	UT and MT. Long seam
P-17-L-1	Acceptable	UT and MT. Long seam
P-17-L-1-A	Acceptable	UT and MT. Long seam
P-17-L-2	Acceptable	UT and MT. Long seam
P-17-L-2-A	Acceptable	UT and MT. Long seam
P-18-L-3-A	Acceptable	UT and MT. Long seam
P-18-L-4-A	Acceptable	UT and MT. Long seam
BSI-C-1053	Acceptable	UT and PT. Note 10
BSI-C-1055	Acceptable	UT and PT. Note 10
BSI-C-1061	Acceptable	UT and PT
BSI-C-1085	Acceptable	UT and PT
BSI-C-3050	Acceptable	UT and PT. Note 10
BSI-C-3054	Acceptable	UT and PT. Note 10
BSI-C-3064	Acceptable	UT and PT
BSI-C-3066	Acceptable	UT and PT
BSI-C-4015	Acceptable	UT and PT
BSI-C-4008	Acceptable	UT and PT
BSI-C-4012A	Acceptable	UT and PT
BSI-C-4014	Acceptable	UT and PT
BSD-C-2019	Acceptable	UT and PT. Indications noted by PT are acceptable per Table IWB-3514.3

CATEGORY B-J (Continued)

Examination Area: Pressure Retaining Welds in Piping

Examination Method: Volumetric (UT) and Surface (PT) or (MT) 4" and Over Diameter Pipe Size; Surface Only (PT) Less Than 4" Pipe Size

ITEM NUMBER	RESULTS	REMARKS
BSD-C-2021	Acceptable	UT and PT
BSD-C-2025A	Acceptable	UT and PT
BSD-C-2027	Acceptable	UT and PT
BPR-C-5105	Acceptable	UT and PT
BPR-C-5109	Acceptable	UT and PT. Indications noted by PT are acceptable per Table IWB-3514.3
BPV-C-5003	Acceptable	UT and PT
BCH-C-2019	Acceptable	PT. Indications noted by PT were irrelevant as verified by retest
BCH-C-2019A	Acceptable	PT
BPD-C-4002	Acceptable	PT
BPD-C-4004	Acceptable	PT
BPD-C-4006	Acceptable	PT
BCH-C-1001A	Acceptable	PT
1F-C-70Y*	Acceptable	PT
1F-C-71Y*	Acceptable	PT

*These examinations represent the completion of partial PT examinations reported on the 1988 refueling outage NIS-1 report. Instrumentation nozzle tube to flange #72, weld 1F-C-72Y could not be completed due to permanent obstruction.

CATEGORY B-K-1

Examination Area: Integral Attachments for Piping, Pumps, and Valves

Examination Method: Surface (PT)

ITEM NUMBER	RESULTS	REMARKS
PSLH-02	Acceptable	None
SIAA-04	Acceptable	None

CATEGORY B-N-1

Examination Area: Interior of Reactor Vessel*

Examination Method: Visual (VT)

ITEM NUMBER	RESULTS	REMARKS
FBS	Acceptable	Flow baffle skirt welds. Note 10
KW-1 thru KW-4	Acceptable	Key ways. Note 10
ONB-1	Acceptable	Outlet nozzle boss at 0°. Note 10
ONB-2	Acceptable	Outlet nozzle boss at 180°. Note 10
SC-1 thru SC-6	Acceptable	Surveillance capsules. Note 10

Note: Visual indications (deformation of CEDM guide cones) were seen during reactor vessel closure head internal exam. These indications were evaluated by Engineering and determined to be acceptable.

Section 9

Class 2 Examination Results

CLASS 2 EXAMINATION RESULTS

CATEGORY C-B

Examination Area: Pressure Retaining Nozzle Welds in Vessels

Examination Method: Surface (MT) and/or Volumetric (UT)

ITEM NUMBER	RESULTS	REMARKS
SG-1-FW-1	Acceptable	None
SG-1-FW-IR-1	Acceptable	Inner radius

CATEGORY C-C

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

ITEM NUMBER	RESULTS	REMARKS
SG-1-CC-3 thru SG-1-CC-8	Acceptable	Steam generator snubber support welds
402118	Acceptable	1-1/8" thick support plate to pipe weld

Section 10

IWF Examination Results

IWF EXAMINATION RESULTS

CATEGORY IWF

Examination Area: Class 1, IWF Supports

Examination Method: Visual (VT)

ITEM NUMBER	RESULTS	REMARKS
PSLH-01	Acceptable	Note 1
PSLH-02	Unacceptable	Notes 1, 2, and 9.
PSLH-03	Acceptable	Note 1
PSLH-04	Acceptable	Notes 1 and 3
PSLH-05	Acceptable	Notes 1 and 3
PSLH-06	Acceptable	Note 1
PSLH-07	Acceptable	Notes 1 and 4
PSLH-08	Acceptable	Notes 1, 3, and 4
PSLH-09	Acceptable	Notes 1, 3, and 4
PSH-62	Acceptable	Note 10
PSH-64	Unacceptable	Notes 7 and 9
PSH-65	Acceptable	None
CVCH-30	Acceptable	Note 10
CCLH-05	Acceptable	Note 10
CCLH-06	Acceptable	Note 10
CCLH-02	Acceptable	None
CLDH-01	Acceptable	Notes 3 and 10
CVCA-02	Acceptable	None
CVCH-03	Acceptable	Note 10

IWF EXAMINATION RESULTS (Continued)

CATEGORY IWF

Examination Area: Class 1, IWF Supports

Examination Method: Visual (VT)

ITEM NUMBER	RESULTS	REMARKS
CVCH-04	Acceptable	Note 10
CVCH-06	Acceptable	Note 3
CLDH-09	Acceptable	Note 3
SIAA-04	Acceptable	Notes 3 and 10
SIAH-02	Unacceptable	Notes 5 and 9
SIAH-28	Acceptable	Note 6
SIAH-34	Acceptable	Note 6
SIAH-35	Acceptable	Note 6
SIBA-05	Acceptable	None
SIBH-04	Acceptable	Notes 3 and 6
SICS-06	Acceptable	Note 10
SIDH-05	Acceptable	Note 11
SDCH-01	Acceptable	None
SDCH-02	Acceptable	Notes 3 and 10
SDCS-01	Acceptable	Note 10
PSH-38	Acceptable	Note 10
PSH-40	Acceptable	Notes 3 and 10
PSH-41	Acceptable	Notes 3 and 10
PSH-63	Acceptable	Note 10
PSH-24	Acceptable	None

IWF EXAMINATION RESULTS (Continued)

CATEGORY IWF

Examination Area: Class 1, IWF Supports

Examination Method: Visual (VT)

ITEM NUMBER	RESULTS	REMARKS
408009	Acceptable	None
408010	Acceptable	Note 10
PSVS-08	Acceptable	Note 10
408001	Acceptable	Note 10
408002	Acceptable	None
408004	Acceptable	None
PSH-03	Acceptable	Notes 3, 4, and 8
PSH-06	Acceptable	None
PSH-60	Acceptable	Note 10
PSH-61	Acceptable	None

IWF EXAMINATION RESULTS

CATEGORY IWF

Examination Area: Class 2 IWF Supports

Examination Method: Visual (VT)

ITEM NUMBER	RESULTS	REMARKS
SG-1-CC-3	Acceptable	Note 3
SG-1-CC-4	Acceptable	Note 3
SG-1-CC-5	Acceptable	Note 3
SG-1-CC-6	Acceptable	Note 3
SG-1-CC-7	Acceptable	Note 3
SG-1-CC-8	Acceptable	Note 3
302034	Acceptable	Note 10
302035	Acceptable	None
402064	Acceptable	Notes 3 and 10
402111	Acceptable	Note 10
402114	Acceptable	None
402116	Acceptable	Note 3
402123	Acceptable	None
40205	Acceptable	None
402058	Acceptable	None
402060	Acceptable	Note 3
402073	Acceptable	None
402082	Acceptable	None
402038	Unacceptable	Notes 7 and 9
402041	Acceptable	None

IWF EXAMINATION RESULTS (Continued)

CATEGORY IWF

Examination Area: Class 2 IWF Supports

Examination Method: Visual (VT)

ITEM NUMBER	RESULTS	REMARKS
402105	Acceptable	None
402026	Acceptable	None
402028	Acceptable	None
402053	Acceptable	None
402061	Acceptable	Note 3
402100	Acceptable	Note 10
402102	Acceptable	None
404015	Acceptable	Notes 3 and 10
MSR-2	Acceptable	Notes 3 and 10
412007	Acceptable	Notes 3 and 10
380080	Acceptable	Note 3
402065	Acceptable	Note 10
402066	Acceptable	Note 10
402098	Acceptable	None
402108	Acceptable	Notes 3 and 10
402121	Unacceptable	Notes 7, 9, and 10
402122	Acceptable	Notes 3 and 10
502016	Acceptable	Note 10

IWF EXAMINATION RESULTS (Continued)

CATEGORY IWF

Examination Area: Class 2 IWF Supports

Examination Method: Visual (VT)

ITEM NUMBER	RESULTS	REMARKS
502030	Unacceptable	Notes 7, 9, and 10
502031	Acceptable	Note 10
502033	Acceptable	Note 10
302040	Acceptable	None
380278	Unacceptable	Notes 7, 9, and 10
402088	Acceptable	Note 10
402089	Acceptable	None
410033	Acceptable	Notes 3 and 10
410066	Acceptable	None
510025	Acceptable	None
402077	Acceptable	Note 10
502012	Acceptable	Note 10
502032	Acceptable	None
302083	Acceptable	Note 8
402002	Unacceptable	Notes 7, 9, and 11
402008	Acceptable	Note 8
402009	Acceptable	Note 8
402086	Acceptable	None
402093	Acceptable	Note 8
402094	Acceptable	Note 8

IWF EXAMINATION RESULTS (Continued)

CATEGORY IWF

Examination Area: Class 2 IWF Supports

Examination Method: Visual (VT)

ITEM NUMBER	RESULTS	REMARKS
402120	Unacceptable	Notes 7, 9, and 10
502019	Acceptable	Notes 3 and 10
402006	Unacceptable	Notes 7 and 9
402007	Acceptable	Note 3
402020	Acceptable	Notes 3 and 8
402023	Unacceptable	Notes 7 and 9
402048	Acceptable	Note 3
402049	Acceptable	Note 3
402118	Acceptable	Note 10
402097	Acceptable	Note 8

NOTES

CLASS 1 AND 2

COMPONENTS

Note 1: This support was examined in accordance with the commitment made to address the concerns on NRC Bulletin #88-11.

Note 2: This support had one loose nut and, therefore, rejectable. The requirements of IWF-2430 have been met since the examination program included the total population of supports associated with the pressurizer surge line.

Note 3: Visual indications were noted but determined to be acceptable within the limits of IWF-3400 by Engineering.

Note 4: These supports were also examined for second interval, second period credit.

Note 5: This safety injection support was noticed (examined) during the pressurizer surge line support examinations. It was not scheduled for ISI examination nor covered by NRC Bulletin #88-11. We did however, augment the ISI examination plan to include several other safety injection supports.

Note 6: Safety injection system supports examined per Note 5, augmented program.

Note 7: The expanded program requirements of IWF-3400 have also been met.

Note 8: Added to ISI/NDE work plan in accordance with the requirements of IWF-2430 (a) or (b).

Note 9: Class 1 and 2, component supports were corrected in accordance with standard component maintenance procedures.

Note 10: Creditable item to the first period, second ten-year interval.

Note 11: Added to ISI/NDE work plan in accordance with the requirements of IWF-2420(b).

Section 11

Corrective Measures Recommended And Taken

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner NORTHEAST NUCLEAR ENERGY CO (Name) Date 4/18/89
   PO BOX 128 WATERFORD, CT 06385 (Address) Sheet 1 of 1
2. Plant MILLSTONE (Name) Unit 2
   PO BOX 128 WATERFORD, CT (Address)
3. Work Performed by WESTINGHOUSE (Name) AWO's M2-89-04667 & M2-89-04666 Repair Organization P.O No., Job No., etc.
   PITTSBURGH, PA (Address)
4. Identification of System REACTOR COOLANT - STEAM GENERATORS
5. (a) Applicable Construction Code SEC III CLASS A 19 65 Edition, 69 Addenda, Code Cases
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, NB1 Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
STEAM GENERATOR 1	CE	CE67510					REPAIR	
STEAM GENERATOR 2	CE	CE67511					REPAIR	

7. Description of Work INSTALL AND LOCK WELD PLUG IN PLUG DEVICE IN MECHANICAL PLUGS
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
   Pressure ____ psi Test Temp. ____ °F
9. Remarks NONE REQUIRED (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Ass't Eng Supv. (Title) April 18 (Date), 19 89

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I&I of Hartford have inspected the Repair (Repair(s) or Replacement(s)) described in this Report on 4-19, 19 89 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-19-89 [signature] (Inspector) Commissions CT 1119 (State or Province, National Board)

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

FIGURE 7.2

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

1. Owner NORTHEAST NUCLEAR ENERGY CO (Name) Date 3/6/89
P.O. BOX 128, WATERFORD, CT 06385 (Address) Sheet 1 of
2. Plant MILLSTONE Unit 2
P.O. BOX 128, WATERFORD, CT 06385 (Name) (Address)
3. Work Performed by WESTINGHOUSE (Address) AWOs M2-89-00489 & M2-89-00491 Repair Organization P.O No., Job No., etc.
PITTSBURGH, PA. (Name) (Address)
4. Identification of System REACTOR COOLANT - STEAM GENERATORS
5. (a) Applicable Construction Code SECTION III CLASS A 19 65 Edition, S 69 Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 80, W81 Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
STEAM GENERATOR 1	C.E.	CE67510					REPLACEMENT	
STEAM GENERATOR 2	C.E.	CE67511					REPLACEMENT	

7. Description of Work INSTALL MECHANICAL TUBE PLUGS
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
Pressure ____ psi Test Temp. ____ °F
9. Remarks NO TESTING REQUIRED (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Engineer or Owner's Designee) Title Asst Eng Supv (Date) 3/31, 19 89

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I&I of Hartford, have inspected the Replacement [Repair(s) or Replacement(s)] described in this Report on 2-26-3-31, 19 89 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-31-89 [signature] (Inspector) Commissions CT 1119 (State or Province, National Board)

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

FIGURE 7.2

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 5/1/89 Sheet 1 of 2
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO-MZ-88-11147, 11145, 11139, 11146 Repair Organization P.O No., Job No., etc.
4. Identification of System STEAM GENERATOR
5. (a) Applicable Construction Code USNC III 19 65 Edition, S 67 Addenda, Code Cases
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 87, W87 Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
#1 S/G	CE	–	–	–	–	1971	Replaced	YES
#2 S/G	CE	–	–	–	–	1971	Replaced	YES

7. Description of Work Replaced Studs+Nuts on MANWAYS & HANDHOLES
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
   Pressure 900 psi Test Temp. 532 °F
9. Remarks 2 - Primary manway studs+nuts #1 S/G, 1 - Secondary Handhole #1 S/G, 1 - Secondary Manway #1 S/G, 2 - Secondary Handhole #2 S/G (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title ISI Coordinator (Date) 5/1, 19 89

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I&I, CO of Hartford, have inspected the Replacements (Repair(s) or Replacement(s)) described in this Report on 5/3, 1989 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5-3-89 [signature] (Inspector) Commissions CT 1119 (State or Province, National Board)

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

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

1. Owner Northeast Nuclear Energy Company (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 5-2-89 Sheet 1 of 2
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO-M2-89-697 Repair Organization P.O No., Job No., etc.
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME III 19 65 Edition, 569 Addenda, Code Cases
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 1980, 1981 Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pressurizer	CE	40-13	—	—	—	1972	Replaced	Yes

7. Description of Work Replaced Hanway Studs + Nuts
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
   Pressure 2250 psi Test Temp. ____ °F
9. Remarks Replaced studs + nuts (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title ISI Coordinator (Date) 5/2, 19 89

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I&I of Hartford have inspected the Replacements (Repair(s) or Replacement(s)) described in this Report on 5-3, 19 89 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5-3-89 [signature] (Inspector) Commissions CT1119 (State or Province, National Board)

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

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company (Name) Date 5/1/89
   P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 2
2. Plant Millstone (Name) Unit 1
   P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) AWO-M2-89-2906 (Repair Organization P.O No., Job No., etc.)
   P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code ASME III 19 71 Edition, Addenda, Code Cases
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, W81 Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Scraper 40801OC	Velan	—	—	—	—	1974	Repaired	No
40800SC	Velan	—	—	—	—	1974	Repaired	No

7. Description of Work Damaged Bolt Holes to 1 1/16"
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
   Pressure ____ psi Test Temp. ____ °F NONE
9. Remarks SEE FOCE-M2-89-024
   (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title ISI Coordinator (Date) 5/1, 19 89

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I&I CO of Hartford have inspected the Repairs [Repair(s) or Replacement(s)] described in this Report on 5-3, 1989 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5-3-89 [signature] (Inspector) Commissions CT 1119 (State or Province, National Board)

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

1/8

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 4/25/89 Sheet 1 of 1
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 2
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) PO 870397 Repair Organization P.O No., Job No., etc.
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code Sect III 19 71 Edition, Addenda, Code Cases
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, W81 Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Safety Valve	Dresser	BN-7127	-	-	-	1974	Replaced	Yes
Safety Valve	Dresser	BN-7128	-	-	-	1974	Replaced	Yes

7. Description of Work Replaced Valve Disk
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒
   Pressure ____ psi Test Temp. ____ °F
9. Remarks Vendor used for setpoint, Blowdown (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title 1st Conductor 4/29 (Date), 19 89

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I & I of Hartford have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on 5-8, 1989 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5-8-89 [signature] (Inspector) Commissions CT 1115 (State or Province, National Board)

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

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

1. Owner Northeast Nuclear Energy Company (Name) Date 4/25/89
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2. Plant Millstone (Name) Unit 2
P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) PO 870397
P.O. Box 128 Waterford, Ct. (Address) Repair Organization P.O No., Job No., etc.
4. Identification of System REACTOR COOLANT
5. (a) Applicable Construction Code USAS B31.1 1967 Edition, ____ ____ Addenda, Code Cases ____
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 1983, W83 Addenda, Code Cases ____
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Safety Valve	Dresser	4965	—	—	—	1974	Replaced	Yes
Safety Valve	Dresser	4963	—	—	—	1974	Replaced	Yes

7. Description of Work Replaced Valve Disc
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒
Pressure ____ psi Test Temp. ____ °F
9. Remarks Vendor Tested For Set Point & Blowdown
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) ISI Coordinator (Title) 4/25 (Date), 19 89

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I & I of Hartford have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on 5-8, 19 89 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5-8-89 [signature] (Inspector) Commissions CT 1119 (State or Province, National Board)

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

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 4/25/89 Sheet 1 of 1
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 2
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) M2-89-03245 Repair Organization P.O No., Job No., etc.
4. Identification of System Reactor Coolant System (PORV + SAFETY VALVE INLET FLANGE)
5. (a) Applicable Construction Code ASME III 19 71 Edition, _____ Addenda, Code Cases _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, W 81 Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
STUDS	POWER ENG. PROD	—	—	—	MTSN SA-193-B8	1986	Replaced	No
NUTS	POWER ENG PROD	—	—	—	MTSN SA-194-8	1986	Replaced	No

7. Description of Work Replaced Studs + Nuts
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
   Pressure 2250 psi Test Temp. 532 °F
9. Remarks (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed C. J. Blanchard Jr. (Owner or Owner's Designee) Title ISI Coordinator (Date) 4/24, 19 89

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I&I of Hartford have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on 5-9, 19 89 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5-9-89 (Inspector) Commissions CT1114 (State or Province, National Board)

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

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 5-2-89 Sheet 1 of 2

2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 1

3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO-M2-88-08221 Repair Organization P.O No., Job No., etc.

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code ASME III 1968 Edition, Addenda, Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, W81 Addenda, Code Cases

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

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-RC-252	Velan	2267	—	—	—	1974	Replaced	Y

7. Description of Work Replaced inner bonnet

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 2250 psi Test Temp. 532 °F

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

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Title Test Conductor (Date) 5/2, 19 89

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I & I CO of Hartford have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on 5-3, 19 89 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5-3-89 [signature] (Inspector) Commissions CT 1119 (State or Province, National Board)

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

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 5/1/89 Sheet 1 of 1
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 2
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO-M2-89-03959 Repair Organization P.O No., Job No., etc.
4. Identification of System SAFETY INJECTION
5. (a) Applicable Construction Code ASME 19 67 Edition, ____ ____ Addenda, Code Cases ____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, W87 Addenda, Code Cases ____
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SUPPORT 410095	ENC	—	—	—	—	1974	Replaced	No

7. Description of Work Replaced Sway Strut
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
   Pressure ____ psi Test Temp. ____ °F
9. Remarks Replaced with ITT Grinnell FIG-211 Size 4 Sway Strut (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) ISE Coordinator (Title) 5/1, 19 89 (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I & I of Hartford have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on 5-8, 19 89 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5-8-89 [signature] (Inspector) Commissions CT1119 (State or Province, National Board)

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

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

1. Owner Northeast Nuclear Energy Company (Name) Date 8/26/88
   P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2. Plant Millstone (Name) Unit 2
   P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) AWO M2-88-3792 Repair Organization P.O No., Job No., etc.
   P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System Main Steam
5. (a) Applicable Construction Code USAS B31.1 1967 Edition, _____ Addenda, Code Cases _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 1980, W81 Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-MS-190A	Copes-Vulcan	7116-93210-1-1	—	—	—	70	Repaired/Replaced	Yes

7. Description of Work Remachined Gasket Seating Surface - Replaced disk & seat
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
   Pressure 900 psi Test Temp. 532 °F
9. Remarks (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Asst Eng Supv (Title) 8/30 (Date), 19 88

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I&I of Hartford have inspected the [illegible] (Repair(s) or Replacement(s)) described in this Report on 9/6, 19 88 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/6/88 [signature] (Inspector) Commissions CT 119 (State or Province, National Board)

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

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

1. Owner Northeast Nuclear Energy Company (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) — Date 8/26/88 — Sheet 1 of 1
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) — Unit 2
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) — AWO-M2-87-4845 Repair Organization P.O No., Job No., etc.
4. Identification of System Service Water
5. (a) Applicable Construction Code B31.1 19 73 Edition, ______ Addenda, Code Cases ______
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, W81 Addenda, Code Cases ______
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-SW-8.1B	Kieley & Mueller	—	—	—	—	1973	Replacement	No

7. Description of Work Replaced Valve
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
   Pressure 60 psi Test Temp. 70 °F
9. Remarks ______ (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Ass't Eng Supv (Title) 8/30 (Date), 19 88

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I & I of HARTFord have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on 9/6, 1988 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/6/88 [signature] (Inspector) Commissions CT 1119 (State or Province, National Board)

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

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 7/27/89 Sheet 1 of 2

2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 1

3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO-M2-88-1160-1 Repair Organization P.O No., Job No., etc.

4. Identification of System Aux. Low Pressure

5. (a) Applicable Construction Code ASME III 19 71 Edition, ____ Addenda, Code Cases ____

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 83, Addenda, Code Cases ____

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

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-RW-12B	Atwood Morrill	12672				1971	Repaired	Y

7. Description of Work Modified Actuating Arm Stuffing Box Flange to Accept Flexitallic Gasket

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐

Pressure 1000 psi Test Temp. 120 °F

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

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Asst Coordinator (Title) 7/27 (Date), 19 89

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I&I of Hartford have inspected the Modification (Repair(s) or Replacement(s)) described in this report on 7/27/89, 19 89 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/27/89 [signature] (Inspector) Commissions CT 1119 (State or Province, National Board)

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

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company (Name) Date 7/27/1989
P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2. Plant Millstone (Name) Unit 2
P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) MZ-88-08413 Repair Organization P.O No., Job No., etc.
P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System
5. (a) Applicable Construction Code 19 Edition, Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 , Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-FW-12A	Atwood + Morrill	12692				1971	Repaired	Y

7. Description of Work Modified Lantern Ring Stuffing Box Cover to Accept Flex Gasket
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
Pressure 1000 psi Test Temp. 110 °F
9. Remarks (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) ISI Coordinator Title 7/27 1989 (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I&I of Hartford have inspected the Mod. Facil.– (Repair(s) or Replacement(s)) described in this Report on 7/27, 1989 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/27/89 [signature] (Inspector) Commissions CT 1119 (State or Province, National Board)

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

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

1. Owner NORTHEAST NUCLEAR ENERGY CO (Name) Date 2/24/89
P.O. BOX 128, WATERFORD, CT 06385 (Address) Sheet 1 of 1
2. Plant MILLSTONE Unit 2
P.O. BOX 128, WATERFORD, CT 06385 (Address)
3. Work Performed by NORTHEAST NUCLEAR ENERGY CO (Name) WORK ORDER M2-89-01142 Repair Organization P.O No., Job No., etc.
WATERFORD, CT. (Address)
4. Identification of System REACTOR CONTAINMENT HATCH STRUCTURE
5. (a) Applicable Construction Code NA 19 Edition, Addenda, Code Cases PER DCC 7604-C-SC
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 1983, S83 Addenda, Code Cases —
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTAINMENT EQUIP HATCH	CB&I	—	—	—	CONTRACT 69-5709 MARK 21	1971	REPLACEMENT	NO

7. Description of Work WELDED ATTACHMENT OF NON PRESSURE RETAINING, NONSTRUCTURAL PLATE ASSYS
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐
Pressure 54 psi Test Temp. AMB °F
9. Remarks (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed [signature] (Owner or Owner's Designee) Asst Eng Supv (Title) 3/4 (Date), 19 89

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I&I of Hartford, have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on 4-17, 19 89 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-17-89 [signature] (Inspector) Commissions CT 1119 (State or Province, National Board)

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

FIGURE 7.2

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company (Name) Date 4/25/89
   P.O. Box 128 Waterford, Ct. 06385 (Address) Sheet 1 of 1
2. Plant Millstone (Name) Unit 2
   P.O. Box 128 Waterford, Ct. 06385 (Address)
3. Work Performed by Northeast Nuclear Energy Co. (Name) AWO-M2-88-12573 Repair Organization P.O No., Job No., etc.
   P.O. Box 128 Waterford, Ct. (Address)
4. Identification of System FUEL TRANSFER TUBE (CONTAINMENT)
5. (a) Applicable Construction Code ASME III 19 71 Edition, _____ Addenda, Code Cases _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 80, CW1 Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Fer-Tube Flange	Industrial Engineering Works	217	N/A	N/A	N/A	1974	Replacement	No

7. Description of Work TACK WELD ALIGNMENT PINS TO FLANGE
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐
   Pressure 66 psi Test Temp. 70 °F
9. Remarks TESTED IN ACCORDANCE WITH 10 CFR 50 APPENDIX J. (SURFACE MULT) (Applicable Manufacturer's Data Reports to be attached)
   PROCEDURE 26.05.C.) PDAR-2-25-89 Applies

CERTIFICATE OF COMPLIANCE

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

Signed R.T. Blanchard (Owner or Owner's Designee) Title ISI Coordinator Date 4/25, 1989

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I&I of Hartford have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on 5-19, 1989 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5-19-89 (Inspector) Commissions CT1115 (State or Province, National Board)

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

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Northeast Nuclear Energy Company (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Date 5/2/89 Sheet 1 of 1
2. Plant Millstone (Name) P.O. Box 128 Waterford, Ct. 06385 (Address) Unit 2
3. Work Performed by Northeast Nuclear Energy Co. (Name) P.O. Box 128 Waterford, Ct. (Address) AWO-M2-88-11227 Repair Organization P.O No., Job No., etc.
4. Identification of System Containment
5. (a) Applicable Construction Code ASME III 19 71 Edition, _____ Addenda, Code Cases _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements – 19 82, 83 Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pen. (SWX-44)	G.E	—	—	—	—	1971	Replace	No

7. Description of Work Replaced Penetration
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐
   Pressure 60 psi Test Temp. 75 °F
9. Remarks TESTED IN ACCORDANCE WITH APPENDIX 'J' (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Signed T. M. Blanchard (Owner or Owner's Designee) ISI Coordinator (Title) 5/2 (Date), 19 89

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT, employed by HSB I & I of Hartford have inspected the Replacement (Repair(s) or Replacement(s)) described in this Report on 5/15, 1989 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5-15-89 (Inspector) Commissions CT 1115 (State or Province, National Board)

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