

1. SERVICE INSPECTION REPORT

1987 REFUELING OUTAGE

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INSERVICE INSPECTION SUMMARY REPORT

FOR

NORTHEAST UTILITIES

MILLSTONE NUCLEAR POWER STATION

UNIT NO. 3

WATERFORD, CONNECTICUT

COMMERCIAL SERVICE DATE: APRIL 23, 1986

1987 REFUELING OUTAGE

APRIL 1988

MILLSTONE UNIT 3  
INSERVICE INSPECTION SUMMARY REPORT

ABSTRACT

This report contains the results for the first Inservice Inspection for Millstone Unit 3. This summary addresses the requirements of the ASME Boiler and Pressure Vessel (B&PV) Code, Section XI, 1983 Edition, through Summer 1983 Addenda. Additional requirements for Augmented Inspections are also addressed.

Included are tables identifying all items subject to examination by Code Category and Code Item Number.

Inservice inspections were performed on components scheduled to be examined during the first inspection period of the first ten-year interval.

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Part I

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  
(Name and Address of Owner)
2. Plant Millstone 3, P.O. Box 345, Waterford, CT 06385  
(Name and Address of Plant)
3. Plant Unit 3
4. Owner Certification of Authorization None  
(if required)
5. Commercial Service Date 4-23-86
6. National Board Number for Unit N/A
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Eng.	7272	N/A	22003
Steam Generator 1A	Westinghouse	NEGT 1776	N/A	W13584
Steam Generator 1B	Westinghouse	NEGT 1775	N/A	W13583
Manway Bolting	Westinghouse	NECT 1777	N/A	W15215
3RCS * PIA	Westinghouse	1-1162E93G01	N/A	1
Reactor Coolant Pump Bolting	Westinghouse	4-1162E93G01	N/A	4

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (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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Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
V8 3RCS*MV8001D	Westinghouse	25-114E937G02	N/A	W14615
V7 3RCS*MV8002D	Westinghouse	25-114E937G01	N/A	W22514
V5 3RCS*MV8002C	Westinghouse	27-114E937G03	N/A	W22645
V6 3RCS*MV8001C	Westinghouse	27-114E937G04	N/A	W22695
LP3-HL1	Tubeco Inc.	15377	N/A	N/A
LP3-HL2	Tubeco Inc.	15378	N/A	N/A
LP3-EC1	Tubeco Inc.	18302	N/A	N/A

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Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province 'Co.	National Board No.
LP3-EC2	Tubeco Inc.	18303	N/A	N/A
LP3-CL1	Tubeco Inc.	15379	N/A	N/A
LP3-CL2	Tubeco Inc.	15380	N/A	N/A
LP4-HL1	Tubeco Inc.	15381	N/A	N/A
LP4-HL2	Tubeco Inc.	15382	N/A	N/A
LP4-EC1	Tubeco Inc.	18304	N/A	N/A
LP4-EC2	Tubeco Inc.	18305	N/A	N/A
LP4-CL1	Tubeco Inc.	15383	N/A	N/A
LP4-CL2	Tubeco Inc.	15384	N/A	N/A
SL-1	Tubeco Inc.	15385	N/A	N/A
SL-2	Tubeco Inc.	15386	N/A	N/A

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7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
SL3	Tubeco Inc.	15387	N/A	N/A
3-RCS-517-1-1-1	Southwest	35905	N/A	N/A
3RCS-517-2-1-1	Southwest	35900	N/A	N/A
3RCS-517-10-1-1	Southwest	36505	N/A	N/A
3SIL-6-6-1-1	Tubeco Inc.	18311	N/A	N/A
3SIL-6-5-1-1	Tubeco Inc.	18310	N/A	N/A
3SIL-7-6-1-1	Tubeco Inc.	18313	N/A	N/A
3SIL-7-5-1-1	Tubeco Inc.	18312	N/A	N/A
3RHS-501-1-1-1	Southwest	36580	N/A	N/A

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Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
3RHS-501-2-1-1	Southwest	18038	N/A	N/A
3RHS-501-3-1-1	Southwest	18039	N/A	N/A
3RCS-505-1-1-1	Southwest	33989	N/A	N/A
407254	Stone & Webster	N/A	N/A	N/A
3RCS-506-2-1-1C	Southwest	33964	N/A	N/A
408046	Stone & Webster	N/A	N/A	N/A
407023	Stone & Webster	N/A	N/A	N/A
374078	Stone & Webster	N/A	N/A	N/A

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Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
3RCS*V107	Westinghouse	10000CS880000 A0005740007	N/A	N/A
3SIL*V985	Westinghouse	06000CS880000 0000S740143	N/A	N/A
3SIL*V19	Westinghouse	10000CS880000 A000S740003	N/A	N/A
3RCS*V146	Westinghouse	10000CS880000 A000S740002	N/A	N/A
3SIL*V984	Westinghouse	06000CS880000 0000S740115	N/A	N/A
3SIL*V21	Westinghouse	10000CS880000 A000S740006	N/A	N/A
3RHS*V999	Westinghouse	12000GM88FNH 1AD04S740003	N/A	N/A
3RHS*V997	Westinghouse	12000GM88FNH 1AD04S740001	N/A	N/A

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Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
3RCS*V26	Westinghouse	06000CS88000 0000S740017	N/A	N/A
3MSS-502-1-1-2	Southwest	19273	N/A	N/A
3MSS-502-4-1-2	Southwest	19276	N/A	N/A
3MSS-502-5-1-2	Southwest	19277	N/A	N/A
3MSS*V10	Sulzer Bros.	5443	N/A	4
3FW5-23-1-1-2	Tubeco Inc.	19351	N/A	N/A
3FWS-23-11-1-2	Tubeco Inc.	19358	N/A	N/A

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3FWS-25-5-1-2	Tubeco Inc.	19366	N/A	N/A
3FWS-25-4-1-2	Tubeco Inc.	19365	N/A	N/A
3RHS*E1B	Joseph Oat Corp.	2168-5B	N/A	781
3SIL-4-2-1-2	Tubeco Inc.	17392	N/A	N/A
3SIL-504-1-1-2	Southwest	19106	N/A	N/A
3SIL-505-1-1-2	Southwest	19110	N/A	N/A

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FORM NIS-1 (back)

8. Examination Dates 11-2-87 to 2-6-88
9. Inspection Interval from 1985 to 1995
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

Abstract of Examinations are identified in Section 1 of this report.

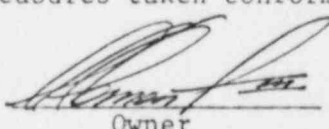
11. Abstract of Conditions Noted.

All indications found during ISI that exceeded the acceptance criteria of ASME XI were removed or reduced to an acceptable size. All UT indications, which equalled or exceeded the recording levels of ASME Section XI, were recorded to the extent required by ASME XI. Additionally, all UT indications 20% DAC for ferritic piping and all UT indications of suspected flaws for stainless steel piping were recorded giving, as a minimum, the amplitude and location of each indication. See Section 2.1 for detailed list of conditions noted.

12. Abstract of Corrective Measures Recommended and Taken.

ISI examinations located one weld containing indications exceeding the acceptance criteria of ASME XI. These indications were located using the magnetic particle method. All indications were either removed or reduced to an acceptable size and removal was verified by reexamination. See Section 2.2 for detailed list of corrective measures recommended and taken.

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

Date April 25 1988 Signed  by C. H. Clement  
Owner

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

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 MSB I & I of HARTFORD have inspected the components described in this Owner's Data Report during the period 11-2-87 to 4-26-88, 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 4-26 19 88

B.L. Jones  
Inspector's Signature

Commissions CT 1119  
National Board, State, Province and No.

NORTHEAST NUCLEAR ENERGY COMPANY

MILLSTONE - UNIT NO. 3

1. PURPOSE AND SCOPE

1.1 Inservice Inspection

An inservice inspection was performed at Millstone Unit 3 over the period November 2, 1987 to February 6, 1988. The examination requirements are for the first ten-year interval (1985-1995). The inspection was the first of two examinations scheduled for the first period, per Inspection Program B.

All items were examined in accordance with the requirements of Technical Specification Section 4.0.5 and the requirements of Section XI of the ASME Boiler and Pressure Vessel Code, 1983 Edition, up to and including the Summer 1983 Addenda.

Augmented Inservice Examinations were performed to meet additional NRC requirements for Break Exclusion area as contained in Standard Review Plan 6.6. In addition, examinations were performed to complete the requirements of I&E Bulletin 79-13, "Cracking in Feedwater System Piping."

Nondestructive examinations were performed by Northeast Utilities Service Company Nondestructive Examination personnel, EBASCO Services, Inc., and Westinghouse Electric Corporation.

Automated ultrasonic examinations on B-J Category reactor coolant piping welds (centrifugally cast stainless steel) were performed by Combustion Engineering, Inc., of Windsor, Connecticut.

The Reactor Coolant System boundary was visually examined during the system Leakage Test. No leakage was identified.

The Inservice Inspection Program was reviewed by the Hartford Steam Boiler Inspection and Insurance Company. They provided Northeast Nuclear Energy Company (NNECO) with the authorized nuclear inservice inspector for the 1987 refueling outage.

1.2 Abstract of Examinations

1.2.1 A summary of the examinations performed for ISI are sorted by code category, code item number, and system in Table 1.



### 1.3 Abbreviations

The following abbreviations listed below are defined as used within the text of this report:

<u>Abbreviation</u>	<u>Definition</u>
UT	Ultrasonic Test
PT	Penetrant Test
MT	Magnetic Particle Test
RT	Radiographic Test
VT-1,2,3,4	Visual Test Followed by Exam Type Number
I/D	Inside Diameter
O/D	Outside Diameter
NUSCO	Northeast Utilities Service Company
NU	Northeast Utilities
NNECO	Northeast Nuclear Energy Company
EBASCO	Electric Bond and Share Company
CE	Combustion Engineering, Inc.
C/S	Carbon Steel
S/S	Stainless Steel
RC Piping	Reactor Coolant Piping
S/G	Steam Generators
RPV	Reactor Pressure Vessel
CW	Clockwise
CCW	Counter Clockwise
HAZ	Heat Affected Zone
SRP6.6	Standard Review Plan 6.6
LPSI	Low Pressure Safety Injection System
ECT	Eddy Current Testing
RCS	Reactor Coolant System
RHS	Residual Heat Removal System
WRV	Weld-Required Volume

2. INSPECTION PLAN DESCRIPTION

2.1 Abstract of Conditions Noted

- 2.1.1 Summary of Examination Results, Table 2, details the type of examination performed and their results, for each component selected for ISI.
- 2.1.2 All items reported in Table 2 are creditable to the first period of the first inspection interval.
- 2.1.3 The result of the examinations are listed as satisfactory, acceptable, or repaired. Satisfactory defines an examination which found no relevant indications. Acceptable defines an examination which found relevant indications, but were dispositioned acceptable per the Acceptance Criteria (see Section 5). Repaired defines an examination which revealed an unacceptable indication which was corrected.

2.2 Abstract of Corrective Measures Recommended and Taken

- 2.2.1 Examination results which contained indications were provided to NUSCO for evaluation and confirmation of results. Disposition of all weld indications was made by NUSCO per company procedure ACP-QA-9.06A, "Reporting of Unresolved Indications."
- 2.2.2 All defects noted during ISI with dimensions exceeding the acceptance criteria were identified for repair in accordance with Administrative Procedure ACP-QA-2.18.
- 2.2.3 The defect removal was performed by NNECO in accordance with the quality assurance requirements of ACP-QA-2.18.
- 2.2.4 Upon completion of the repair, the area or volume containing the defect was re-examined using the same examination method which was employed when the defect was detected.
- 2.2.5 Evaluation criteria for ISI examinations is discussed in Section 5.
- 2.2.6 For specific details of all inservice inspection repairs/replacements, refer to Owner's Report for Repairs or Replacements, Form NIS-2, in Section 6.

2.3 Additional Examinations

Additional examinations, per IWX-2430, are required when indications exceed the allowable standards of IWB and IWF-3000. For a detailed list of these examinations, refer to Table 3.

2.4 Augmented Examinations

Summary Table

<u>Description</u>	<u>Requirement</u>	<u>Number of Items Examined</u>	<u>Details in Table</u>
Examinations of feedwater piping for cracking	I&E Bulletin 79-13	20 welds 4 base metal areas	4
Balance of plant piping inspection program for erosion/corrosion	I&E Bulletin 87-01	49	5
Visual examination of reactor vessel closure head interior surfaces	FSAR	1	6
Eddy current examinations of steam generator tubing	Plant technical specifications Section 4.4.5.0	2054	7
Visual examination and inservice testing of snubbers	Plant technical specifications Section 3/4.7.10	1044	8

NORTHEAST NUCLEAR ENERGY COMPANY

MILLSTONE UNIT 3

TABLE 1

SUMMARY OF EXAMINATIONS

<u>CODE CATEGORY/ITEM</u>	<u>SYSTEM</u>	<u>EXAMINED</u>
<u>CLASS 1</u>		
<u>B-B: Pressure Retaining Welds in Vessels Other Than Reactor Vessel</u>		
B2.40	RCS	1
<u>B-D: Full Penetration Welds of Nozzles in Vessels</u>		
B3.130	RCS	4
<u>B-F: Pressure Retaining Dissimilar Metal Welds</u>		
B5.70	RCS	4
<u>B-G-1: Pressure Retaining Bolting, Greater than 2 in. Diameter</u>		
B6.180	RCS	1 (Note 1)
<u>B-G-2: Pressure Retaining Bolting, 2 in. and Less in Diameter</u>		
B7.30	RCS	4 (Note 1)
B7.60	RCS	1 (Note 1)
B7.70	LPSI	6 (Note 1)
	RCS	1 (Note 1)
	RHS	2 (Note 1)
<u>B-J: Pressure Retaining Welds in Piping</u>		
B9.11	RCS	49
	RHS	7
	LPSI	11
B9.21	SIH	15
	RCS	11
B9.32	RCS	11
<u>B-L-2: Pump Casings</u>		
B12.20	RCS	1

TABLE 1 (Cont'd)  
SUMMARY OF EXAMINATIONS

<u>CODE CATEGORY/ITEM</u>	<u>SYSTEM</u>	<u>EXAMINATION</u>
<u>CLASS 1 (Cont'd)</u>		
<u>B-N-1: Interior of Reactor Vessel</u>		
B13.10	RPV	1
<u>B-P: All Pressure Retaining Components</u>		
See Section 2.0		
<u>CLASS 2</u>		
<u>C-A: Pressure Retaining Welds in Pressure Vessels</u>		
C1.10	S/G	1
C1.30	S/G	1
	RHS	1
<u>C-B: Pressure Retaining Nozzle Welds in Vessels</u>		
C2.21	S/G	2
C2.31	RHS	2
<u>C-C: Integral Attachments for Piping</u>		
C3.20	FWS	1
	LPSI	3
<u>C-D: Pressure Retaining Bolting Greater than 2 in. Diameter</u>		
C4.40	MSS	1 (Note 1)
<u>C-F-1: Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping</u>		
C5.11	LPSI	12
<u>C-F-2: Pressure Retaining Welds in Carbon and Low Alloy Steel Piping</u>		
C5.51	MSS	3
	FWS	3
C5.52	MSS	5
C5.81	FWS	2

TABLE 1 (Cont'd)  
SUMMARY OF EXAMINATIONS

<u>CODE CATEGORY/ITEM</u>	<u>SYSTEM</u>	<u>EXAMINED</u>
---------------------------	---------------	-----------------

CLASS 2 (Cont'd)

C-H: All Pressure Retaining Components

See Section 2.0

CLASS 3

D-B: System in Support of ECC, CHR and RHR

D2.20	SWP	2
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D2.10 See Section 2.0

NOTE 1: The numbers given reflect the number of components (pumps, valves, etc.) containing the items requiring inspection.

TABLE 1 (Cont'd)  
SUMMARY OF EXAMINATIONS  
IWF EXAMINATIONS

<u>CODE CATEGORY</u>	<u>SYSTEM</u>	<u>EXAMINED</u>
	<u>CLASS 1</u>	
F-B: Linear Type Supports	RHS	2
	SIH	50
F-C: Component Standard Supports	RCS	4
	RHS	4
	SIH	7
	<u>CLASS 2</u>	
F-B: Linear Type Supports	FI'S	10
	MSS	2
	LPSI	20
F-C: Component Standard Supports	FWS	8
	MSS	3
	LPSI	18
	<u>CLASS 3</u>	
F-B: Linear Type Supports	SWP	23
F-C: Component Standards Supports	SWP	4

NORTHEAST NUCLEAR ENERGY COMPANY

MILLSTONE UNIT 3

TABLE 2

EXAMINATION RESULTS

ASME CLASS 1 COMPONENTS

CATEGORY B-B

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
<u>STEAM GENERATOR-1B</u>			
03-004-SW-Z	UT (0, 45, 60)	Satisfactory	Scan from HEAD side only due to Tube Sheet Configuration.

CATEGORY B-D

<u>STEAM GENERATOR-1A</u>			
03-003-SW-U	UT (0, 45, 60)	Satisfactory	Scan from one side only due to Nozzle Configuration.
03-003-SW-V	UT (0, 45, 60)	Satisfactory	Scan from one side only due to Nozzle Configuration.

STEAM GENERATOR-1B

03-004-SW-U	UT (0, 45, 60)	Satisfactory	Scanned from one side only due to Nozzle Configuration.
03-004-SW-V	UT (0, 45, 60)	Satisfactory	Scanned from one side only due to Nozzle Configuration.

CATEGORY B-F

REACTOR COOLANT LOOP PIPING

RCS-LP-3-FW-4	UT (45)	Satisfactory	One-sided examination (pipe side), due to OD configuration. CE automated equipment used.
	PT	Satisfactory	None



ASME CLASS 1 COMPONENTS

CATEGORY B-F (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
RCS-LP-3-FW-5	UT (45)	Satisfactory	One-sided examination (pipe side), due to OD configuration. CE automated equipment used.
	PT	Satisfactory	None
RCS-LP-4-FW-4	UT (45)	Satisfactory	One-sided due to O/D configuration. CE automated equipment used.
	PT	Acceptable	Numerous small indications within the Acceptable Limits.
RCS-LP4-FW-5	UT (45)	Satisfactory	Scan limited to nozzle side due to O/D taper. CE automation equipment used.
	PT	Acceptable	Two rounded indications within the Acceptable Limits.

CATEGORY B-G-1

REACTOR COOLANT PUMP - 1D

03-011-002	UT (0)	Satisfactory	None
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CATEGORY B-G-2

LPSI VALVE BOLTING

RCS-V-107	VT-1	Satisfactory	Examined in-place under tension.
RCS-V-146	VT-1	Satisfactory	Examined in-place under tension.
SIL-V-19	VT-1	Satisfactory	Examined in-place under tension.
SIL-V-21	VT-1	Satisfactory	Examined in-place under tension.

ASME CLASS 1 COMPONENTS

CATEGORY B-G-2 (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
SIL-V-984	VT-1	Satisfactory	Examined in-place under tension.
SIL-V-985	VT-1	Satisfactory	Examined in-place under tension.
<u>REACTOR COOLANT SYSTEM VALVE BOLTING</u>			
RCS-V-26	VT-1	Satisfactory	Examined in-place under tension.
<u>RESIDENTIAL HEAT REMOVAL VALVE BOLTING</u>			
RHS-V-997	VT-1	Satisfactory	Examined in-place under tension.
RHS-V-999	VT-1	Satisfactory	Examined in-place under tension.
<u>STEAM GENERATOR (1D) MANWAY BOLTING AND NUTS</u>			
03-006-001-(1-16)	VT-1	Satisfactory	Inlet manway studs (1 through 16)
03-006-002-(1-16)	VT-1	Satisfactory	Inlet manway nuts (1 through 16)
03-006-003-(1-16)	VT-1	Satisfactory	Outlet manway studs (1 through 16)
03-006-004-(1-16)	VT-1	Satisfactory	Outlet manway nuts (1 through 16)
<u>REACTOR COOLANT PUMP 1D SEAL BOLTING</u>			
03-011-004	VT-1	Repaired	10 out of 16 bolts had severe corrosion on the bolt heads and were replaced.

CATEGORY B-J

REACTOR COOLANT SYSTEM PIPING (<4 IN NOM PIPE SIZE)

RCS-LP3-CL1-SW-C	PT	Satisfactory	None
RCS-LP3-CL2-SW-D	PT	Satisfactory	None
RCS-LP3-CL2-SW-E	PT	Satisfactory	None

ASME CLASS 1 COMPONENTS

CATEGORY B-J (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
RCS-LP3-EC2-SW-D	PT	Satisfactory	None
RCS-LP3-EC2-SW-E	PT	Satisfactory	None
RCS-LP3-EC2-SW-F	PT	Satisfactory	None
RCS-LP3-HL2-SW-F	PT	Satisfactory	None
RCS-LP4-CL1-SW-C	PT	Satisfactory	None
RCS-LP4-CL2-SW-D	PT	Satisfactory	None
RCS-LP4-CL2-SW-G	PT	Satisfactory	None
RCS-LP4-HL2-SW-F	PT	Satisfactory	None
RCS-5-FW-13	PT	Satisfactory	None
RCS-5-FW-14-1	PT	Satisfactory	None
RCS-5-FW-16	PT	Satisfactory	None
RCS-5-FW-17-1	PT	Satisfactory	None
RCS-506-2-SW-4	PT	Satisfactory	None
RCS-506-2-SW-5	PT	Satisfactory	None
RCS-506-2-SW-6	PT	Satisfactory	None
374078-FW-7	PT	Satisfactory	None
374078-FW-8	PT	Satisfactory	None
408046-FW-5	PT	Satisfactory	None
408046-FW-6	PT	Satisfactory	None
<u>HPSI PIPING (&lt;4 IN. NOMINAL PIPE SIZE)</u>			
407023-FW-1	PT	Satisfactory	None
407023-FW-2	PT	Satisfactory	None
407023-FW-3	PT	Satisfactory	None
407023-FW-4	PT	Satisfactory	None
407023-FW-5	PT	Satisfactory	None

ASME CLASS 1 COMPONENTS

CATEGORY B-J (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
407023-FW-6	PT	Satisfactory	Gouge in base material, out of the area of interest was blended smooth and checked for minimum wall thickness (found acceptable).
407254-FW-15	PT	Satisfactory	None
407254-FW-49	PT	Satisfactory	None
407254-FW-50	PT	Satisfactory	None
407254-FW-53-1	PT	Satisfactory	None
407254-FW-54	PT	Satisfactory	None
407254-FW-63-1	PT	Satisfactory	None
407254-FW-85	PT	Satisfactory	None
408046-FW-3	PT	Satisfactory	None
408046-FW-4	PT	Satisfactory	None
<u>REACTOR COOLANT LOOP PIPING (<math>\geq 4</math> IN. NOMINAL PIPE SIZE)</u>			
RCS-LP3-EC2-SW-B	UT (45)	Satisfactory	None
	PT	Satisfactory	None
RCS-LP3-FW-2	UT (45)	Satisfactory	Limited scan on one side due to O/D configuration.
	PT	Satisfactory	None
RCS-LP3-FW-3	UT (45)	Satisfactory	One-sided examination due to O/D configuration.

ASME CLASS 1 COMPONENTS

CATEGORY B-J (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
	PT	Satisfactory	None
RCS-LP3-FW-6	UT (45)	Satisfactory	None
	PT	Satisfactory	None
RCS-LP3-FW-7	UT (45)	Satisfactory	None
	PT	Satisfactory	None
RCS-LP3-FW-8	UT (45)	Satisfactory	One-sided examination due to O/D configuration.
	PT	Satisfactory	None
RCS-15-FW-27	UT (45)	Satisfactory	One-sided examination due to O/D configuration.
	PT	Satisfactory	None
RCS-15-FW-28	UT (45)	Satisfactory	None
	PT	Satisfactory	None
RCS-15-FW-29	UT (45)	Satisfactory	One-sided exam (pipe side) only due to valve transition.
	PT	Satisfactory	None
RCS-LP4-EC2-SW-B	UT (45)	Satisfactory	Limited scan from 2.0" to 4.0" (circumferential measurement clockwise from 0) due to branch connection interference.
	PT	Satisfactory	None
RCS-LP4-FW-2	UT (45)	Satisfactory	One-sided (pipe side) examination due to O/D configuration
	PT	Satisfactory	None
RCS-LP4-FW-3	UT (45)	Satisfactory	One-sided (pipe side) examination due to O/D configuration

ASME CLASS 1 COMPONENTS

CATEGORY B-J (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
RCS-LP4-FW-EC1-BMR	UT (45)	Satisfactory	None
	PT	Satisfactory	None
	PT	Satisfactory	None
RCS-LP4-FW-6	UT (45)	Satisfactory	Indications on ID evaluated as counterbore.
	PT	Satisfactory	None
RCS-LP4-FW-7	UT (45)	Satisfactory	Limited scan 2 inches in length due to branch piping interference.
	PT	Acceptable	One (1) 1/8" diameter rounded indication.
RCS-LP4-FW-8	UT (45)	Satisfactory	One-sided examination (pipe side) due to O/D configuration.
	PT	Satisfactory	None
RCS-20-FW-37	UT (45)	Satisfactory	One-sided examination (pipe side) due to O/D configuration. Limited scan from 9 o'clock to 12 o'clock (90°) due to branch connection interference.
	PT	Satisfactory	None
RCS-20-FW-38	UT (45)	Satisfactory	One-sided examination (pipe side) due to O/D configuration. Limited scan from 12 o'clock to 3 o'clock (90°) due to branch connection interference.
	PT	Satisfactory	None
RCS-20-FW-39	UT (45)	Satisfactory	One-sided examination (pipe side) due to O/D configuration. Limited scan for 6" of weld length due to branch connection interference.

ASM CLASS 1 COMPONENTS

CATEGORY B-J (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
	PT	Satisfactory	None
<u>REACTOR COOLANT SYSTEM PIPING (<math>\geq 4</math> IN. NOMINAL PIPE SIZE)</u>			
RCS-SL-FW-1	UT (0, 45, 60)	Satisfactory	Indications from I/D Geometry. Evaluated as root reflector.
	PT	Satisfactory	None
RCS-SL-FW-2	UT (45)	Satisfactory	Two indications from I/D Geometry. Evaluated as root reflectors.
	PT	Satisfactory	None
RCS-SL-FW-3	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	None
RCS-SL-FW-4	UT (45)	Satisfactory	One-sided examination (pipe side) due to nozzle configuration. Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	None
RCS-SL-SW-6	UT (45)	Satisfactory	Indications from I/D Geometry. Evaluated as root reflectors.
	PT	Satisfactory	None
RCS-SL-2-SW-F	UT (45)	Satisfactory	Two indications from I/D Geometry. Evaluated as root reflectors.
	PT	Satisfactory	None
RCS-SL-3-SW-B	UT (45)	Satisfactory	Indications from I/D geometry located 360° (intermittent). Evaluated as root reflectors.

ASME CLASS 1 COMPONENTS

CATEGORY B-J (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
	PT	Satisfactory	None
RCS-SL-3-SW-C	UT (45)	Satisfactory	Indications from I/D geometry located 360° intermittent. Evaluated as root reflectors.
	PT	Satisfactory	None
RCS-SL-3-SW-D	UT (45)	Satisfactory	Indications from I/D geometry, 360° intermittent. Evaluated as root reflectors.
	PT	Satisfactory	None
RCS-SL-3-SW-E	UT (45)	Satisfactory	Indications from I/D geometry, 360° intermittent. Evaluated as root reflectors and counterbore.
	PT	Satisfactory	None
RCS-SL-3-SW-F	UT (45)	Satisfactory	Indications from I/D geometry, 360° intermittent. Evaluated as root reflectors.
	PT	Satisfactory	None
RCS-SL-3-SW-G	UT (45)	Satisfactory	Indications from I/D geometry, 360° intermittent. Evaluated as root reflectors.
	PT	Satisfactory	None
RCS-SL-3-SW-H	UT (45)	Satisfactory	Indications from I/D geometry, 360° intermittent. Evaluated as root reflectors.



ASME CLASS 1 COMPONENTS

CATEGORY B-J (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
	PT	Satisfactory	None
RCS-505-FW-12	UT (45)	Satisfactory	Indications from I/D geometry, 360° intermittent. Evaluated as root reflectors. One-sided (pipe side) examination due to O/D configuration.
	PT	Satisfactory	None
RCS-517-FW-11	UT (45)	Satisfactory	Indications from I/D geometry, 360° intermittent. Evaluated as root reflectors.
	PT	Satisfactory	None
RCS-517-1-SW-3	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	None
RCS-517-2-SW-2	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	None
RHS-501-FW-1	UT (0,45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors and counterbore.
	PT	Satisfactory	None.
RHS-501-FW-2	UT (45)	Satisfactory	One-sided exam due to O/D configuration. Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	None

ASME CLASS 1 COMPONENTS

CATEGORY B-J (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
RHS-501-1-SW-2	UT (45)	Satisfactory	Indications from I/D Geometry. Evaluated as root reflectors and counterbore.
	PT	Satisfactory	None
RHS-501-1-SW-3	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	None
RHS-501-1-SW-4	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	None
RHS-501-1-SW-5	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	None
SIL-6-FW-10	UT (45)	Satisfactory	One-sided examinations (pipe side) due to O/D configuration. Indications from I/D geometry 360° intermittent. Evaluated as root reflectors.
	PT	Satisfactory	None
SIL-6-FW-11	UT (45)	Satisfactory	One-sided examination (pipe side) due to O/D configuration. Indications from I/D geometry 360° intermittent. Evaluated as root reflectors.
	PT	Satisfactory	None

ASME CLASS 1 COMPONENTS

CATEGORY B-J (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
SIL-6-6-SW-B	UT (45)	Satisfactory	No scan from 8" CW to 11" CW due to welded box restraint limits access. Indications from I/D geometry 360° intermittent. Evaluated as beam redirection.
	PT	Satisfactory	None
SIL-6-6-SW-C	UT	Satisfactory	Indications from I/D geometry 360° intermittent. Evaluated as beam redirection.
	PT	Satisfactory	None
SIL-7-FW-10	UT	Satisfactory	One-sided examination (pipe side) due to O/D configuration.
	PT	Satisfactory	None
SIL-7-FW-11	UT (45)	Satisfactory	One-sided examination (pipe side) due to O/D configuration.
	PT	Satisfactory	None
SIL-7-FW-20-1	UT (45)	Satisfactory	None
	PT	Satisfactory	None
SIL-7-6-SW-C	UT (45)	Satisfactory	None
	PT	Satisfactory	None
<u>RESIDUAL HEAT REMOVAL SYSTEM (<math>\geq 4</math> IN. NOMINAL PIPE SIZE)</u>			
RHS-501-FW-3	UT (45)	Satisfactory	One-sided examination due to O/D configuration.
	PT	Satisfactory	None

ASME CLASS 1 COMPONENTS

CATEGORY B-J (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
RHS-501-FW-4	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	One linear indication 3/64" in length at 6-3/8" CW from O.
RHS-501-FW-5	UT (45)	Satisfactory	One-side examination (pipe side) due to O/D configuration. Indications from I/D geometry, 360° intermittent. Evaluated as root reflectors.
	PT	Satisfactory	None
RHS-501-3-SW-2	UT (45)	Satisfactory	None
	PT	Satisfactory	None
RHS-501-3-SW-3	UT (45)	Satisfactory	None
	PT	Satisfactory	None
RHS-501-3-SW-4	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	None
RHS-501-3-SW-5	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors and counterbore.
	PT	Satisfactory	None

LOW-PRESSURE SAFETY INJECTION SYSTEM ( $\geq 4$  IN. NOMINAL PIPE SIZE)

SIL-6-FW-8	UT (45)	Satisfactory	One-sided exam (pipe side) due to O/D configuration. Indications from I/D geometry. Evaluated as root reflectors.
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ASME CLASS 1 COMPONENTS

CATEGORY B-J (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
	PT	Satisfactory	None
SIL-6-FW-9	UT (45)	Satisfactory	One-sided examination (pipe side) due to O/D configuration. One indication 1" in length from I/D geometry. Evaluated as root reflector.
	PT	Satisfactory	None
SIL-6-5-SW-B	UT (45)	Satisfactory	Indications from I/D geometry, 360° intermittent. Evaluated as beam redirection.
	PT	Satisfactory	None
SIL-6-5-SW-E	UT (45)	Satisfactory	One-sided examination due to O/D configuration. Indications from I/D geometry, 360° intermittent. Evaluated as beam redirection.
	PT	Satisfactory	None
SIL-6-5-SW-G	UT (45)	Satisfactory	One-sided examination, due to O/D configuration. Indications from I/D geometry, 360° intermittent. Evaluation as beam redirection.
	PT	Satisfactory	None
SIL-7-FW-8	UT (60)	Satisfactory	Indications from I/D geometry. Evaluated as root geometry.
	PT	Satisfactory	None

ASME CLASS 1 COMPONENTS

CATEGORY B-J (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
SIL-7-5-SW-B	UT (45)	Satisfactory	None
	PT	Satisfactory	None
SIL-7-5-SW-E	UT (45)	Satisfactory	One-sided examination due to O/D configuration.
	PT	Satisfactory	None
SIL-7-5-SW-G	UT (45)	Satisfactory	One-sided examination due to O/D configuration. Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	

CATEGORY B-L-2

REACTOR COOLANT PUMP 1A

03-008-001	VT-3	Satisfactory	Pump was disassembled for maintenance. VT-3 was performed per Section XI and Relief Request IR-4.
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CATEGORY B-N-1

REACTOR PRESSURE VESSEL (INTERIOR)

03-001-003	VT-3	Acceptable	Review of the video tape of the examination shows minor surface scratches. Evaluated as acceptable.
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CATEGORY B-P

All Pressure Retaining Components of the Reactor Coolant System	VT-2	Satisfactory	The Reactor Pressure Vessel and associated Class 1 piping and components received a system leakage test in accordance with IWA-5000.
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ASME CLASS 2 COMPONENTS

CATEGORY C-A

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
<u>STEAM GENERATOR 1A</u>			
03-053-SW-G	UT (0,45,60)	Satisfactory	Scanning limitation due to lift off 360° intermittents due to O/D configuration.
03-053-SW-Y	UT (0,45,60)	Satisfactory	Examined 1/3 of weld length. Scanned from shell side only due to O/D configuration.
<u>VERTICAL RESIDUAL HEAT EXCHANGER (B)</u>			
03-074-004	UT (45)	Satisfactory	Limited scan for 25½ inches of weld length due to pipe saddle interference. Indications from I/D and O/D geometry. Evaluated as root and weld crown reflectors.

CATEGORY C-B

<u>VERTICAL RESIDUAL HEAT EXCHANGER (B)</u>			
RHS-3-FW-49	PT	Satisfactory	None
RHS-3-FW-53	PT	Satisfactory	None
<u>STEAM GENERATOR 1A</u>			
03-053-SW-R	UT (0, 45, 60)	Satisfactory	One-sided examination due O/D configuration. Limited scan due to insulation support brackets.
	MT	Satisfactory	Limited scan on 12 inches of weld length due to interference from permanent mounted insulation support brackets. See Relief Request IR-7.

ASME CLASS 2 COMPONENTS

CATEGORY C-B (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
03-053-SW-T	UT (0, 45, 60)	Satisfactory	Limited scan due to permanent mounted insulation support brackets.
	MT	Satisfactory	None

CATEGORY C-C

FEEDWATER SYSTEM

3-FWS-PSSH011 MT Satisfactory None

LOW PRESSURE SAFETY INJECTION SYSTEM

3-SIL-1-PSSP400 PT Satisfactory None

3-SIL-1-PSSP402 PT Satisfactory None

3-SIL-4-PSR040 PT Satisfactory HAZ not accessible due to welded pipe clamp.

CATEGORY C-D

MAIN STEAM SYSTEM VALVE BOLTING

MSS-V-10 UT (70°) Satisfactory None

CATEGORY C-F

FEEDWATER SYSTEM PIPING (> 4 IN. NOMINAL PIPE SIZE)

FWS-23-FW-1 UT (45) Acceptable 3 linear indications (midwall) within the acceptable limits. Indications from I/D geometry. Evaluated as root reflectors.



ASME CLASS 2 COMPONENTS

CATEGORY C-F (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
	MT	Repaired	A 1½" long linear indications was found in the weld HAZ. Microstructural analysis revealed the indication to be .075" deep with (2) additional subsurface indications, intergranular in nature, about the same depth and 0.065" from the first indication. Evaluated as hydrogen contamination cracking and <u>not</u> service induced. Weld was repaired by grinding and rewelding. Retest was acceptable.
FWS-23-FW-2	UT (45)	Satisfactory	One-sided examination (pipe side) due to O/D configuration.
	MT	Satisfactory	None
FWS-25-FW-6-1	RT	Satisfactory	Examined to meet ASME III, Subsection NC, Article NC-5000. Configuration does not allow for UT.
	MT	Satisfactory	None
FWS-25-FW-4-BM (Branch connection)	MT	Satisfactory	None
FWS-21-FW-4D-M (Branch connection)	MT	Satisfactory	None
<u>MAIN STEAM SYSTEM (&gt; 4 IN. NOMINAL PIPE SIZE)</u>			
MSS-502-FW-1-1	UT (45)	Satisfactory	One-sided examination (pipe side) due to O/D configuration. Indication from I/D geometry. Evaluated as root reflectors.
	MT	Satisfactory	None

ASME CLASS 2 COMPONENTS

CATEGORY C-F (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
MSS-502-FW-4-2M	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as counterbore.
	MT	Satisfactory	None
MSS-502-FW-5	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as counterbore.
	MT	Satisfactory	None
MSS-502-FW-5-LS-16	UT (45)	Satisfactory	None
	MT	Satisfactory	None
MSS-502-1-LS-1	UT	Satisfactory	None
	MT	Satisfactory	None
MSS-502-FW-4-LS-14	UT	Satisfactory	None
	MT	Satisfactory	None
MSS-502-4-LS-20	UT	Satisfactory	One-sided exam due to saddle support interference. Indications from I/D geometry. Evaluated as root reflectors.
	MT	Satisfactory	None
MSS-502-5-LS-15	UT	Satisfactory	None
	MT	Satisfactory	None
<u>LOW-PRESSURE SAFETY INJECTION (&gt; 4 IN. NOMINAL PIPE SIZE)</u>			
SIL-157-FW-2	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	None

ASME CLASS 2 COMPONENTS

CATEGORY C-F (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
SIL-157-FW-3	UT (45)	Satisfactory	One-sided exam due to welded restraint interference. Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	None
SIL-41-FW-1	UT (45)	Satisfactory	One-sided examination due to O/D configuration.
	PT	Satisfactory	None
SIL-41-FW-1-7M	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors and counterbore.
	PT	Satisfactory	None
SIL-504-FW-15	UT (45, 60)	Satisfactory	No axial scan (60°) on valve side due to O/D configuration. No circumferential scan (45°) on valve side due to O/D configuration. 100 percent WRV examined to meet SRP6.6.
	PT	Satisfactory	None
SIL-505-1-SW-2	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors caused by beam redirection.
	PT	Satisfactory	None

ASME CLASS 2 COMPONENTS

CATEGORY C-F (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
SIL-505-1-SW-4	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors caused by beam redirection.
	PT	Acceptable	Surface indications evaluated as scratches on pipe.
SIL-504-1-SW-8	UT (45)	Satisfactory	One-side examination due to pipe support interference. Indications from I/D geometry. Evaluated as root reflectors. 100 percent WRV examined to meet SRP6.6.
	PT	Satisfactory	None
SIL-504-1-SW-10	UT (45)	Satisfactory	One-sided examination due to O/D configuration. Indications from I/D geometry. Evaluated as root reflectors and beam redirection. 100 percent WRV examined to meet SRP6.6.
	PT	Satisfactory	None
SIL-504-1-SW-2	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root geometry and beam redirection.
	PT	Satisfactory	None
SIL-504-1-SW-7	UT (45)	Satisfactory	One-sided examination due to O/D configuration. Indications from I/D geometry. Evaluated as root reflectors and beam redirection. 100 percent WRV examined to meet SRP6.6.
	PT	Acceptable	Arc strike found on pipe. Evaluated as acceptable.

ASME CLASS 2 COMPONENTS

CATEGORY C-F (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
SIL-501-2-SW-6	UT (45)	Satisfactory	Indications from I/D geometry. Evaluated as root reflectors.
	PT	Satisfactory	None

ASME CLASS 3 COMPONENTS

CATEGORY D-B

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
<u>SERVICE WATER SYSTEM PIPING</u>			
3-SWP-6-PSA038-W	VT-3	Satisfactory	None
3-SWP-6-PSA048-W	VT-3	Satisfactory	None

SUBSECTION IWF EXAMINATIONS

CLASS 1

CATEGORY F-B

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>			
3-RHS-1-PSR003	VT-3	Satisfactory	None
3-RHS-1-PSR005	VT-3	Satisfactory	None
<u>HIGH PRESSURE SAFETY INJECTION SYSTEM</u>			
3-SIH-1-PSA251	VT-3	Satisfactory	None
3-SIH-1-PSA266	VT-3	Satisfactory	None
3-SIH-1-PSA342	VT-3	Satisfactory	None
3-SIH-1-PSA533	VT-3	Satisfactory	None
3-SIH-1-PSR252	VT-3	Satisfactory	None
3-SIH-1-PSR253	VT-3	Satisfactory	None
3-SIH-1-PSR254	VT-3	Satisfactory	None
3-SIH-1-PSR255	VT-3	Satisfactory	None
3-SIH-1-PSR256	VT-3	Satisfactory	None
3-SIH-1-PSR257	VT-3	Satisfactory	None
3-SIH-1-PSR258	VT-3	Satisfactory	None
3-SIH-1-PSR259	VT-3	Satisfactory	None
3-SIH-1-PSR260	VT-3	Satisfactory	None
3-SIH-1-PSR261	VT-3	Satisfactory	None
3-SIH-1-PSR262	VT-3	Satisfactory	None
3-SIH-1-PSR263	VT-3	Satisfactory	None
3-SIH-1-PSR264	VT-3	Satisfactory	None
3-SIH-1-PSR265	VT-3	Satisfactory	None
3-SIH-1-PSR268	VT-3	Satisfactory	None
3-SIH-1-PSR339	VT-3	Satisfactory	None

SUBSECTION IWF EXAMINATIONS

CLASS 1

CATEGORY F-B (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
3-SIH-1-PSR340	VT-3	Satisfactory	None
3-SIH-1-PSR341	VT-3	Satisfactory	None
3-SIH-1-PSR350	VT-3	Satisfactory	None
3-SIH-1-PSR351	VT-3	Satisfactory	None
3-SIH-1-PSR352	VT-3	Satisfactory	None
3-SIH-1-PSR353	VT-3	Satisfactory	None
3-SIH-1-PSR510	VT-3	Satisfactory	None
3-SIH-1-PSR511	VT-3	Satisfactory	None
3-SIH-1-PSR512	VT-3	Satisfactory	None
3-SIH-1-PSR513	VT-3	Satisfactory	None
3-SIH-1-PSR514	VT-3	Satisfactory	None
3-SIH-1-PSR515	VT-3	Satisfactory	None
3-SIH-1-PSR516	VT-3	Satisfactory	None
3-SIH-1-PSR517	VT-3	Satisfactory	None
3-SIH-1-PSR518	VT-3	Satisfactory	None
3-SIH-1-PSR519	VT-3	Satisfactory	None
3-SIH-1-PSR520	VT-3	Satisfactory	None
3-SIH-1-PSR521	VT-3	Satisfactory	None
3-SIH-1-PSR522	VT-3	Satisfactory	None
3-SIH-1-PSR523	VT-3	Satisfactory	None
3-SIH-1-PSR524	VT-3	Satisfactory	None
3-SIH-1-PSR525	VT-3	Satisfactory	None
3-SIH-1-PSR526	VT-3	Satisfactory	None
3-SIH-1-PSR527	VT-3	Satisfactory	None



SUBSECTION IWF EXAMINATIONS

CLASS 1

CATEGORY F-B (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
3-SIH-1-PSR528	VT-3	Satisfactory	None
3-SIH-1-PSR529	VT-3	Satisfactory	None
3-SIH-1-PSR530	VT-3	Satisfactory	None
3-SIH-1-PSR532	VT-3	Satisfactory	None
3-SIH-1-PSR534	VT-3	Satisfactory	None
3-SIH-1-PSR535	VT-3	Satisfactory	None

CATEGORY F-C

REACTOR COOLANT SYSTEM

3-RCS-1-PSR168	VT-3	Satisfactory	None
3-RCS-1-PSSH520	VT-3	Satisfactory	None
3-RCS-1-PSSH524	VT-3/VT-4	Satisfactory	None
3-RCS-1-PSSH531	VT-3/VT-4	Satisfactory	None

RESIDUAL HEAT REMOVAL SYSTEM

3-RHS-1-PSR014	VT-3	Satisfactory	None
3-RHS-1-PSST001	VT-3	Satisfactory	None
3-RHS-1-PSST002	VT-3	Repaired	Tightened locknuts
3-RHS-1-PSST004	VT-3	Satisfactory	None

HIGH PRESSURE SAFETY INJECTION SYSTEM

3-SIH-1-PSR267	VT-3	Satisfactory	None
3-SIH-1-PSR647	VT-3	Satisfactory	None
3-SIH-1-PSSH623	VT-3/VT-4	Acceptable	Misalignment acceptable
3-SIH-1-PSST084	VT-3	Satisfactory	None
3-SIH-1-PSST161	VT-3	Satisfactory	None

SUBSECTION IWF EXAMINATIONS

CLASS 1

CATEGORY F-C (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
3-SIH-1-PSST354	VT-3	Satisfactory	None
3-SIH-1-PSST531	VT-3	Satisfactory	None

SUBSECTION IWF EXAMINATIONS

CLASS 2

CATEGORY F-B

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
<u>FEEDWATER SYSTEM</u>			
3-FWS-1-PSR001	VT-3	Satisfactory	None
3-FWS-1-PSR003	VT-3	Satisfactory	None
3-FWS-1-PSR004	VT-3	Satisfactory	None
3-FWS-1-PSR006	VT-3	Satisfactory	None
3-FWS-1-PSR007	VT-3	Satisfactory	None
3-FWS-1-PSR008	VT-3	Satisfactory	None
3-FWS-1-PSR009	VT-3	Satisfactory	None
3-FWS-1-PSR013	VT-3	Satisfactory	None
3-FWS-1-PSR016	VT-3	Satisfactory	None
3-FWS-1-PSR017	VT-3	Satisfactory	None
<u>MAIN STEAM SYSTEM</u>			
3-MSS-1-PSR125	VT-3	Satisfactory	None
3-MSS-1-PSR127	VT-3	Satisfactory	None
<u>LOW PRESSURE SAFETY INJECTION</u>			
3-SIL-1-PSA190	VT-3	Satisfactory	None
3-SIL-1-PSA487	VT-3	Satisfactory	None
3-SIL-1-PSA490	VT-3	Satisfactory	None
3-SIL-1-PSA497	VT-3	Satisfactory	None
3-SIL-1-PSR005	VT-3	Satisfactory	None
3-SIL-1-PSR008	VT-3	Satisfactory	None
3-SIL-1-PSR010	VT-3	Satisfactory	None
3-SIL-1-PSR011	VT-3	Satisfactory	None
3-SIL-1-PSR012	VT-3	Satisfactory	None

SUBSECTION IWF EXAMINATIONS

CLASS 2

CATEGORY F-B (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
3-SIL-1-PSR192	VT-3	Satisfactory	None
3-SIL-1-PSR193	VT-3	Satisfactory	None
3-SIL-1-PSR194	VT-3	Satisfactory	None
3-SIL-1-PSR195	VT-3	Satisfactory	None
3-SIL-1-PSR196	VT-3	Satisfactory	None
3-SIL-1-PSR488	VT-3	Satisfactory	None
3-SIL-1-PSR489	VT-3	Satisfactory	None
3-SIL-1-PSR491	VT-3	Satisfactory	None
3-SIL-1-PSR492	VT-3	Satisfactory	None
3-SIL-1-PSR494	VT-3	Satisfactory	None
3-SIL-1-PSR495	VT-3	Satisfactory	None
3-SIL-1-PSR496	VT-3	Satisfactory	None
3-SIL-1-PSR498	VT-3	Satisfactory	None
3-SIL-1-PSR499	VT-3	Satisfactory	None
3-SIL-1-PSR500	VT-3	Satisfactory	None
3-SIL-1-PSR501	VT-3	Satisfactory	None
3-SIL-1-PSR502	VT-3	Satisfactory	None
3-SIL-1-PSR503	VT-3	Satisfactory	None
3-SIL-1-PSR504	VT-3	Satisfactory	None
3-SIL-1-PSR505	VT-3	Satisfactory	None
3-SIL-1-PSR509	VT-3	Satisfactory	None
3-SIL-4-PSR039	VT-3	Satisfactory	None

SUBSECTION IWF EXAMINATIONS

CLASS 2

CATEGORY F-C

<u>COMPONENT/WFLD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
<u>FEEDWATER SYSTEM</u>			
3-FWS-1-PSSH002	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH005	VT-3/VT-4	Repaired	Tightened loose bolt and nut.
3-FWS-1-PSSH010	VT-3/VT-4	Repaired	Tightened loose bolt.
3-FWS-1-PSSH011	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH014	VT-3/VT-4	Repaired	Tightened loose nut and bolt.
3-FWS-1-PSSH017	VT-3/VT-4	Acceptable	Position of indicators for hot/cold settings were reversed.
3-FWS-1-PSSH022	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH023	VT-3/VT-4	Satisfactory	None
<u>MAIN STEAM SYSTEM</u>			
3-MSS-1-PSR126	VT-3	Satisfactory	None
3-SS-1-PSSH123	VT-3/VT-4	Satisfactory	None
3-MSS-1-PSSH124	VT-3/VT-4	Satisfactory	None
<u>LOW PRESSURE SAFETY INJECTION SYSTEM</u>			
3-SIL-1-PSR004	VT-3	Satisfactory	None
3-SIL-1-PSR191	VT-3	Satisfactory	None
3-SIL-1-PSR508	VT-3	Satisfactory	None
3-SIL-1-PSR592	VT-3	Satisfactory	None
3-SIL-1-PSR620	VT-3	Satisfactory	None
3-SIL-1-PSR622	VT-3	Satisfactory	None

SUBSECTION IWF EXAMINATIONS

CLASS 2

CATEGORY F-C (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
3-SIL-1-PSSH006	VT-3/VT-4	Satisfactory	None
3-SIL-1-PSSH009	VT-3/VT-4	Acceptable	Incorrect load setting. Evaluated as acceptable.
3-SIL-1-PSSH016	VT-3/VT-4	Satisfactory	None
3-SIL-1-PSSH017	VT-3/VT-4	Satisfactory	None
3-SIL-1-PSSH024	VT-3/VT-4	Satisfactory	None
3-SIL-1-PSSH026	VT-3/VT-4	Acceptable	Incorrect load setting. Evaluated as acceptable.
3-SIL-1-PSSH033	VT-3/VT-4	Satisfactory	None
3-SIL-1-PSSH035	VT-3/VT-4	Satisfactory	None
3-SIL-1-PSSH593	VT-3/VT-4	Satisfactory	None
3-SIL-1-PSSH619	VT-3/VT-4	Satisfactory	None
3-SIL-1-PSSH621	VT-3/VT-4	Satisfactory	None
3-SIL-1-PSST493	VT-3	Satisfactory	None
3-SIL-1-PSST506	VT-3	Satisfactory	None
3-SIL-1-PSST507	VT-3	Satisfactory	None
3-SIL-4-PSR040	VT-3	Satisfactory	None
3-SIL-4-PSR041	VT-3	Satisfactory	None
3-SIL-4-PSR042	VT-3	Satisfactory	None
3-SIL-4-PSR043-1	VT-3	Satisfactory	None
3-SIL-4-PSR043-2	VT-3	Satisfactory	None
3-SIL-4-PSR044	VT-3	Satisfactory	None

SUBSECTION IWF EXAMINATIONS

CLASS 3

CATEGORY F-C

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
<u>SERVICE WATER SYSTEM</u>			
3-SWP-6-PSSH251	VT-3/VT-4	Satisfactory	None
3-SWP-6-PSST058	VT-3	Satisfactory	None
3-SWP-6-PSST085	VT-3	Satisfactory	None
3-SWP-6-PSST088	VT-3	Satisfactory	None

CATEGORY F-B

<u>SERVICE WATER SYSTEM</u>			
3-SWP-6-PSA038	VT-3	Satisfactory	None
3-SWP-6-PSA048	VT-3	Satisfactory	None
3-SWP-6-PSR040	VT-3	Satisfactory	None
3-SWP-6-PSR041	VT-3	Satisfactory	None
3-SWP-6-PSR042	VT-3	Satisfactory	None
3-SWP-6-PSR043	VT-3	Satisfactory	None
3-SWP-6-PSR044	VT-3	Satisfactory	None
3-SWP-6-PSR045	VT-3	Satisfactory	None
3-SWP-6-PSR046	VT-3	Satisfactory	None
3-SWP-6-PSR050	VT-3	Satisfactory	None
3-SWP-6-PSR051	VT-3	Satisfactory	None
3-SWP-6-PSR052	VT-3	Satisfactory	None
3-SWP-6-PSR053	VT-3	Satisfactory	None
3-SWP-6-PSR054	VT-3	Satisfactory	None
3-SWP-6-PSR055	VT-3	Satisfactory	None
3-SWP-6-PSR056	VT-3	Satisfactory	None
3-SWP-6-PSR057	VT-3	Satisfactory	None

SUBSECTION IWF EXAMINATIONS

CLASS 3

CATEGORY F-B (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
3-SWP-6-PSR081	VT-3	Satisfactory	None
3-SWP-6-PSR083	VT-3	Satisfactory	None
3-SWP-6-PSR084	VT-3	Satisfactory	None
3-SWP-6-PSR126	VT-3	Satisfactory	None
3-SWP-6-PSR242	VT-3	Satisfactory	None
3-SWP-6-PSR243	VT-3	Satisfactory	None



TABLE 3

Additional Examinations Required Per IWX-2430

Refer to Table 2-1 for those examinations which exceeded the acceptance standards of IWB-3000 and IWF-3000 (listed as repaired) and requiring the additional examinations listed below.

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
FWS-21-FW-2	UT (45)	Satisfactory	None
	MT	Satisfactory	None
FWS-21-FW-3	UT (45)	Satisfactory	None
	MT	Satisfactory	None
FWS-21-FW-6	UT (45)	Satisfactory	None
	MT	Acceptable	Shallow linear indications were recorded. Removed with additional surface preparation.
FWS-21-4-SW-F	UT (45)	Satisfactory	None
	MT	Satisfactory	None
FWS-22-4-SW-F	UT (45)	Satisfactory	None
	MT	Satisfactory	None
FWS-22-5-SW-C	UT (45)	Satisfactory	None
	MT	Satisfactory	None
FWS-22A-FW-6	UT (45)	Satisfactory	None
	MT	Satisfactory	None
FWS-22A-FW-7	UT (45)	Satisfactory	None
	MT	Satisfactory	None
FWS-23-FW-3	UT (45)	Satisfactory	None
	MT	Satisfactory	None
FWS-23A-FW-12	UT (45)	Satisfactory	None

TABLE 3 (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
	MT	Satisfactory	None
FWS-24-FW-2	UT (45)	Satisfactory	None
	MT	Satisfactory	None
FWS-24-FW-3	UT (45)	Satisfactory	None
	MT	Satisfactory	None
FWS-25-FW-5	UT (45)	Satisfactory	None
	MT	Satisfactory	None

CATEGORY F-C (CLASS 1)

3-RHS-1-PSST009	VT-3	Satisfactory	None
3-RHS-1-PSST010	VT-3	Satisfactory	None
3-RHS-1-PSST011	VT-3	Satisfactory	None

- NOTES:
1. One hundred (100) percent of the feedwater supports were examined per I&E Bulletin 79-13 (see Table 2-3).
  2. The amount of additional examinations on Class 2 feedwater piping welds (C-F Category) was extended to include an additional number of components of the same Code Category, Code Item No., and Pipe Size initially examined to meet any inspection (I&E Bulletin 79-13).
  3. Examination of Category B-G-2, bolting for reactor coolant pump seals was performed on three (3) additional pumps. These additional examinations were performed in accordance with maintenance procedures in lieu of Section XI requirements. Visual examination in accordance with IWA-2211 will be performed during the next refueling outage.

AUGMENTED EXAMINATIONS

TABLE 4

Examination of Feedwater Piping Per I&E Bulletin 79-13

Examination Area: 1) Piping (on all four loops) which includes nozzle-to-pipe welds, the piping to the first support, and the piping-to-penetration welds. An area of one pipe diameter of feedwater pipe downstream at the auxiliary feedwater connection.

2) In addition, all feedwater piping supports and snubbers in containment.

Examination Method: Radiographic examination in accordance with ASME III, Subsection NC, Article NC-5000, with a 2T penetration sensitivity level on the areas listed in Item 1 above.

Visual Examination (VT-3,4) on the areas listed in Item 2.

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
FWS-23-FW-1	RT	Satisfactory	None
FWS-23A-FW-11D-M	RT	Satisfactory	None
FWS-23A-FW-11E-M	RT	Satisfactory	None
FWS-23A-FW-85	RT	Satisfactory	None
FWS-23A-FW-11G-M	RT	Satisfactory	None
FWS-23A-FW-13-1	RT	Satisfactory	None
FWS-21-FW-1	RT	Satisfactory	None
FWS-21-6-SW-C	RT	Satisfactory	None
FWS-21-FW-6D-M	RT	Satisfactory	None
FWS-21-FW-8-1	RT	Satisfactory	None
FWS-22-FW-1	RT	Satisfactory	None
FWS-22-6-SW-C	RT	Satisfactory	None
FWS-22A-FW-6D-M	RT	Satisfactory	None
FWS-22A-FW-8-1	RT	Satisfactory	None
FWS-24-FW-1	RT	Satisfactory	None
FWS-25-5-SW-D	RT	Satisfactory	None

TABLE 4 (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
FWS-25-5-SW-E	RT	Satisfactory	None
FWS-25-FW-5-GM	RT	Satisfactory	None
FWS-25-FW-6-1	RT	Satisfactory	None
FWS-25-FW-6-1	RT	Satisfactory	None
FWS-25-FW-49	RT	Satisfactory	None
FWS-23A-FW-10B-M (base metal)	RT	Satisfactory	Base metal only. 20" of feedwater pipe base metal downstream of auxiliary feedwater pipe.
FWS-21-FW-4D-M (base metal)	RT	Satisfactory	Base metal only. 20" of feedwater pipe base metal downstream of auxiliary feedwater pipe.
FWS-22-A-FW-4D-M (base metal)	RT	Satisfactory	Base metal only. 20" of feedwater pipe base metal downstream of auxiliary feedwater pipe.
FWS-25-FW-4-BM (base metal)	RT	Satisfactory	Base metal only. 20" of feedwater pipe base metal downstream of auxiliary feedwater pipe.
3-FWS-1-PSR001	VT-3	Satisfactory	None
3-FWS-1-PSR003	VT-3	Satisfactory	None
3-FWS-1-PSR004	VT-3	Satisfactory	None
3-FWS-1-PSR006	VT-3	Satisfactory	None
3-FWS-1-PSR007	VT-3	Satisfactory	None
3-FWS-1-PSR008	VT-3	Satisfactory	None
3-FWS-1-PSR009	VT-3	Satisfactory	None
3-FWS-1-PSR013	VT-3	Repaired	Loose nuts.
3-FWS-1-PSR016	VT-3	Satisfactory	None

TABLE 4 (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
3-FWS-1-PSR021	VT-3	Satisfactory	None
3-FWS-1-PSSH014	VT-3/VT-4	Repaired	Loose nuts.
3-FWS-1-PSSP411	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH017	VT-3/VT-4	Acceptable	Spring can setting. Evaluated as acceptable.
3-FWS-1-PSSP412	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP413	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP414	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP415	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH022	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP416	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP417	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP418	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP419	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP420	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP421	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH023	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP422	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP423	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP424	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP425	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH025	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH426	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP427	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP429	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP430	VT-3/VT-4	Satisfactory	None

TABLE 4 (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
3-FWS-1-PSSP428	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP444	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP431	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP432	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH026	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP433	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP434	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP435	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP436	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH027	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP437	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP438	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP439	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP440	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP441	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP442	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP443	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP445	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH028	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH002	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP400	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH005	VT-3/VT-4	Repaired	Loose nuts.
3-FWS-1-PSSP401	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP402	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP403	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP404	VT-3/VT-4	Satisfactory	None

TABLE 4 (Continued)

<u>COMPONENT/WELD</u>	<u>EXAMINATION</u>	<u>RESULTS</u>	<u>REMARKS</u>
3-FWS-1-PSSH010	VT-3/VT-4	Repaired	Loose nuts.
3-FWS-1-PSSP405	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP406	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP407	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP408	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP409	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSP410	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSSH011	VT-3/VT-4	Satisfactory	None
3-FWS-1-PSR015*	VT-3	Satisfactory	None
3-FWS-1-PSR018*	VT-3	Satisfactory	None
3-FWS-1-PSR019*	VT-3	Satisfactory	None
3-FWS-1-PSR020*	VT-3	Satisfactory	None

NOTE: \*Four (4) rigid restraints located inside the containment building were not visually inspected during the refueling outage. They were subsequently inspected April 16, 1988 during a maintenance shutdown. Reference letter B12849, E. J. Mroczka to W. T. Russell, NRC I&E Bulletin No. 79-13 Inspection Results, dated March 21, 1988.

AUGMENTED EXAMINATIONS

TABLE 5

Wall Thickness Measurements For Erosion/Corrosion  
on Balance of Plant Piping Per I&E Bulletin 87-01

Examination Area: Areas were selected based on the parameters given in the referenced bulletin. Guidance from ERRI Research Project 1570-2, "Nondestructive Examinations of Ferritic Piping for Erosion/Corrosion," was utilized in selecting components for examination.

Examination Method: Ultrasonic thickness measurements per the requirements of I&E Bulletin 87-01, including utilizing certified personnel, ultrasonic equipment with an oscilloscope display, and an approved procedure.

<u>SYSTEM</u>	<u>EXAMINATIONS</u>	<u>COMPONENTS EXAMINED</u>	<u>SATISFACTORY</u>	<u>ACCEPTED*</u>	<u>REJECTED**</u>
Feedwater	UT Thickness	11 Elbows	11	0	0
		1 Valve <sup>†</sup>	1	0	0
		8 Tees	8	0	0
		2 End Caps	1	1	0
Condensate	UT Thickness	1 Reducer <sup>‡</sup>	1	0	0
		2 Valves <sup>†</sup>	2	0	0
		10 Elbows	10	0	0
S/G Blowdown	UT Thickness	1 Tee	1	0	0
		1 Elbow	1	0	0
		2 Reducers	2	0	0
		1 Valve <sup>†</sup>	0	1	0
Heater Drain Lines	UT Thickness	2 Reducers	0	2	0
		2 Elbows	2	0	0
Extraction Steam	UT Thickness	5 Elbows	5	0	0

<sup>†</sup> Valves - Pipe downstream of valve.

\* Accepted - Pipe was found to exceed the manufacturer's tolerance of 12.5% below nominal wall. Evaluated as acceptable.

\*\*Rejected - Pipe Minimum Wall was exceeded.



AUGMENTED EXAMINATIONS

TABLE 6

Visual Examination of Reactor Vessel  
Closure Head Interior Per FSAR

Examination Area: Cladded Surfaces of Interior of the RPV Closure Head

Examination Method: VT-1

Results: Satisfactory

Remarks: None

AUGMENTED EXAMINATIONS

TABLE 7

Eddy Current Examinations of Steam Generator  
Tubing Per Plant Technical Specification

SUMMARY

	<u>Total</u>	<u>SGA</u>	<u>SGB</u>	<u>SGC</u>	<u>SGD</u>
Total Tubes	22,504	5,626	5,626	5,626	5,626
Tubes Inspected	2,054	543	501	506	504
Tubes With Maximum Flaw Greater Than or Equal to 40 Percent (Defect)	0	0	0	0	0
Tubes With Maximum Flaw Less Than 40 Percent but Greater Than or Equal to 20 Percent	24	12	2	3	7
Tubes Plugged As a Result Of This Inspection	2	1	0	0	1

NOTE: The complete results of the steam generator tube inservice inspection will be submitted within 12 months in accordance with Plant Technical Specification 4.4.5.5.b.

AUGMENTED EXAMINATIONS

TABLE 8

Visual Examination and Inservice Testing of  
Snubbers Per Plant Technical Specifications

SUMMARY

Examination Method: Visual Examination (VT-3/VT-4) in accordance with IWA-2210.  
Functional tests in accordance with Section 4.7.10 of the Plant Technical  
Specifications.

	<u>Totals</u>	<u>Rejected</u>
Total Snubbers	1,044	N/A
Visually Inspected	1,044	10
Functionally Tested		
- Per Test Plan	182	6**
- Resulting From Visual Inspection	10	0
- Other*	2	0

\*Welding leads found attached to snubbers.

\*\*Snubber inoperable.

3.0 ULTRASONIC CALIBRATION STANDARDS FOR MP-3

UT CALIBRATION STANDARDS LIST  
FOR MILLSTONE POINT UNIT 3  
1987 REFUELING OUTAGE

<u>Standard No.</u>	<u>Description</u>	<u>Heat Numbers</u>	<u>Use</u>
UT-4	5" thick clad	C4372-2	S/G (SA-533 GR B Cl.1) Primary Weld
UT-7	2-1/2" thick	HT# 5160C-1	Main Coolant Piping (CCSS) (SA-351 GR CF8A)
UT-7A	2-1/2" thick	HT# 147895-1	Main Coolant Piping (SCSS) (SA-351 GR CF8A)
UT-8	3-1/2" thick	HT# T11340	Steam Generator Secondary Side Welds (SA-533 GR A, Cl.2)
UT-12	3/4" T	HT# 894124W	Vertical Residual Heat Exchangers (SA-240 TP 304)
UT-18	14" Sch. 160	HT# 20873	Press Surge Line Safe End (SA-182 GR F316)
UT-21	4" Sch. 160	HT# M9593	Class 1 Piping (SA-376 TP 316)
UT-22	6" Sch. 160	HT# 0631-29-2	Class 1 Piping (SA-376 TP 316)
UT-23	8" Sch. 160	HT# M0035	Class 1 Piping (SA-376 TP 316)
UT-24	10" Sch. 160	HT# 1091-5-1-2	Class 1 Piping (SA-376 TP 316)
UT-25	12" Sch. 140	HT# 1081-44-1	Class 1 Piping (SA-376 TP 316)
UT-26	12" Sch. 160	HT# 534982	Class 1 Piping (SA-376 TP 316)
UT-27	14" Sch. 160	HT# 3-383	Class 1 Piping (SA-376 TP 316)

<u>Standard No.</u>	<u>Description</u>	<u>Heat Numbers</u>	<u>Use</u>
UT-28	4.5" dia.	HT# 3P4028	RCP Studs (A-540-B24)
UT-31	32", 1.312" T	HT# 65817	Main Steam Piping (SA-155, Cl.1, GR KC-70)
UT-32	30", 1.250" T	HT# 89626	Main Steam Piping (SA-155, Cl.1, GR KC-70)
UT-34	31.5", 2.0 T	HT# 803P7323	Main Steam Piping (SA-155, Cl.1, GR KC-70)
UT-35	20" Sch. 100	HT# N37344	Main Feedwater Piping (SA-106, GR-B)
UT-37	16" Sch. 100	HT# N16677	Main Feedwater Piping (SA-106, GR-B)
UT-40	57.700" LG	HT# 83289	RPV Stud 57.750" Long
UT-41	35" LG x 2½ Dia.	HT# 220690	MSIV Stud
MP-1-UT-35	10" Sch. 80	HT# 39891	LPSI Piping (SA-240 TP316)

4. NDE EXAMINATION PROCEDURES

This Section describes the sources for the requirements which provide the basis for the various NDE Examination Procedures used during the Millstone 3 ISI. A complete list of the procedures used for implementing inservice inspections is detailed in Section 4.1.

Ultrasonic Examination Procedures

All ultrasonic examinations, for which ASME Section XI Code Credit is taken, were performed in accordance with the requirements of ASME Section XI, 1983 Edition including Addenda through Summer 1983, Appendix III for piping or Article 4, ASME Section V for ferritic vessels.

For piping examinations, additional recording criteria were adopted over and above those required by ASME, Section XI. These additional criteria are as follows:

- a) For austenitic piping welds, any indication of a suspected flaw, regardless of amplitude, discovered during examination of piping welds or adjacent base material was recorded.
- b) For ferritic piping examinations, all indications showing a signal amplitude of 20 percent of DAC was recorded rather than 50 percent of DAC as required by ASME Section XI.

Magnetic Particle Examination Procedures

Magnetic particle examinations were performed in accordance with Article 7, ASME Section V.

Liquid Penetrant Examination Procedures

Liquid penetrant examinations were performed in accordance with Article 6, ASME Section V.

Visual Examination Procedures

Visual examinations were performed in accordance with Subarticle IWA-2210 of ASME Section XI.

Personnel Qualification, Equipment, and Material Lists are detailed in Section 4.2.

4.1 List of Examination and Test Procedures

<u>Procedure No.</u>	<u>Revision</u>	<u>Application</u>
NU-LP-1	7	Procedure for Liquid Penetrant Exams
NU-MP-1	6	Procedure for Magnetic Particle Exams
NU-VT-1	7	Procedure for Inservice Visual Exams (VT-1, 2, 3, & 4)
NU-RT-1	3	Procedure of Radiographic Examination of Welds
NU-UT-1	6	General Requirements
NU-UT-2	5	Austenitic Piping Welds
NU-UT-3	4	Ferritic and Dissimilar Metal Piping Welds
NU-UT-4	2	Weld Marking Datum Points and Identification
NU-UT-5	3	Ultrasonic Examination Procedure for Thickness Measurements
NU-UT-18	2	Steam Generator Welds
NU-UT-9	0	Main Steam Isolation Valve Studs
NU-UT-23	2	Component Bolts, Studs, and Nuts
ISI-MIL-03-RVT	0	Remote Visual Examination of the Reactor Vessel Internals
MP-410-006	1	Ultrasonic Examination Procedure for Automated Inspection of Main Coolant Piping Welds (CCSS)
SP3601F.7	1	Reactor Coolant System Leak Test
ACP-QA-9.06A	1	Inservice Inspection Unresolved Indication Reporting
ACP-QA-2.18	0	ASME Section XI Repair/Replacements
SP31129	0	Inservice inspection

<u>Procedure No.</u>	<u>Revision</u>	<u>Application</u>
SP3116	1	Inservice inspection of steam generator tubes
EN31125	1	Piping inspection program for erosion/corrosion



4.2 Personnel Qualification, Equipment and Material Lists

MILLSTONE 3 1987 OUTAGE  
PERSONNEL CERTIFICATIONS LIST

<u>EBASCO</u> <u>Name</u>	<u>Certifications</u>
Joseph Bagley	VTIII-1,2,3,4, PTII
Holly F. Baker	RTII
Richard Bennardo	PTII, MTII, VTII-1,3,4
John S. Busby	UTI, PTII, MTII, VTII-1,2,3,4
Stanley J. Chieka	UTIT, PTII, VTII-1
Tommy Collier	UTI, PTII, VTII-1
Danisl Dougan	RTII, MTII, PTII
Debra Dufrene	UTIT, PTIT
Bradley J. Focer	UTII, MTII
Charles Geiger	RTII, MTII, PTII
Paul Hamer	UTII, MTII, PTII, VTII-1, VT1-3,4
John J. Kulawy	MTII, PTII, VTII-1,3,4
Ronald P. Nizioi	UTII, MTII, PTII, VTII-1
John O'Neil	UTII, MTII, PTII, VTII-1,3,4, RTI
Robert Pavkovich	UTI, PTII, VTII-1
Drew Peterson	UTIT, MTIT, PTIT
Cecil D. Rhodes	MTII, PTII
Darrell Roeters	UTII, MTII, PTII, VTII-1,2,3,4, RTIT, ETIT
Owen Saulter	UTII, MTII, PTII, VTII-1,3,4
William Scott	UTII, MTII, PTII, VTII-1
Aturo D. Smith	UTIII, ETII
Edward Sullivan	MTII, PTII, VTII-1,2,3,4

EBASCO  
Name

Certifications

Luis Valenzuela	UTII, MTII, PTII, VTII-1,2,3,4, RTII
John Vanderlinde	UTII, MTII, PTII, VTII-1,3,4
Miquel Villanueva	MTII, PTII, VTII-1,2,3,4, RTII
James D. Walker	PTII, VTII-1,3,4
Calvin Walraven	UTII, MTII, PTII

NUSCO  
Name

Certifications

Thomas Davis	VTII-1,3,4, UTII, MTII
Peter Durand	MTII, PTII (S.R.), UTII, VTII-1,3,4
Richard Fuller	UTIII, PTIII, MTII, VTII-1,3,4
David R. MacNeill	UTII, VTII-1
John F. Pinto	PTII (S.R.), VTII-1,3,4, MTII, UTII
Steven Sikorski	RTIII, UTIII, PTIII, MTIII, VTII-1

C.E.  
Name

Certifications

Faried M. Anwari	UTII
Glenn P. Gagner	UTII
Richard S. Kusy	UTIII
Phillip L. Lancaster	UTIII
Carey L. LaSoya	UTII
Robert C. McGuire	UTI
Gerald A. Pooler	UTII
Robert M. Roney, Jr.	UTII
Paul R. Smock	UTII
Gary A. Terning	UTIII

MILLSTONE 3 1987 OUTAGE  
EQUIPMENT CERTIFICATIONS INDEX

EBASCO EQUIPMENT

Ultrasonic Instruments

<u>Manufacturer</u>	<u>Type</u>	<u>S/N</u>
K-B Aerotech	USL-38	S/N0180454
K-B Aerotech	USL-48	S/N212525
K-B Aerotech	USL-48	S/N213222
K-B Aerotech	USL-48	S/N213478
K-B Aerotech	USL-48	S/N213620
Panametrics	EPOCH 2002	S/N269
Panametrics	EPOCH 2002	S/N400

Ultrasonic Transducers

<u>Manufacturer</u>	<u>Type</u>	<u>S/N</u>
Harisonic	HS-546	S/NB11332
K-B Aerotech	GAMMA HP	S/NA04480
K-B Aerotech	GAMMA	S/NA26436
K-B Aerotech	GAMMA	S/NB04721
K-B Aerotech	GAMMA	S/NB27739
K-B Aerotech	GAMMA	S/NC13630
K-B Aerotech	GAMMA	S/NC13632
K-B Aerotech	GAMMA	S/ND01781
K-B Aerotech	GAMMA	S/ND01786
K-B Aerotech	GAMMA HP	S/ND03718
K-B Aerotech	GAMMA HP	S/ND03725
K-B Aerotech	GAMMA	S/ND13794
K-B Aerotech	GAMMA HP	S/ND13796
K-B Aerotech	GAMMA HP	S/ND13797
K-B Aerotech	ALPHA	S/ND25733
K-B Aerotech	GAMMA	S/ND27715
K-B Aerotech	GAMMA	S/ND27717
K-B Aerotech	GAMMA	S/ND27722
K-B Aerotech	GAMMA	S/ND27724
K-B Aerotech	GAMMA	S/ND30713
K-B Aerotech	GAMMA	S/ND30714
K-B Aerotech	GAMMA	S/NE09697
K-B Aerotech	GAMMA	S/NF05734
K-B Aerotech	GAMMA	S/NF05735
K-B Aerotech	GAMMA	S/NF05736
K-B Aerotech	GAMMA	S/NF15780
K-B Aerotech	VSY 60	S/NF18694
K-B Aerotech	GAMMA	S/NF24757
K-B Aerotech	GAMMA	S/NF24760
K-B Aerotech	GAMMA	S/NF24762
K-B Aerotech	GAMMA	S/NF24763
K-B Aerotech	GAMMA	S/NG03519

<u>Manufacturer</u>	<u>Type</u>	<u>S/N</u>
K-B Aerotech	ALPHA HP	S/NG08229
K-B Aerotech	GAMMA	S/NG10650
K-B Aerotech	WSY 70-Z	S/NH11700
K-B Aerotech	WSY 70-Z	S/NH11701
K-B Aerotech	GAMMA	S/NH12310
K-B Aerotech	GAMMA	S/NH15646
K-B Aerotech	GAMMA	S/NJ19354
K-B Aerotech	GAMMA	S/NJ26607
K-B Aerotech	GAMMA	S/NK07639
K-B Aerotech	GAMMA	S/NK01325
K-B Aerotech	GAMMA	S/NK14110
K-B Aerotech	GAMMA	S/NK24932
K-B Aerotech	GAMMA	S/NL01969
K-B Aerotech	GAMMA	S/NL08793
K-B Aerotech	GAMMA HP	S/NM10902
K-B Aerotech	GAMMA	S/NM31135
K-B Aerotech	GAMMA	S/NP12127
Megasonics	DDM	S/N71073
Megasonics	DDM	S/N71074
Megasonics	DDM	S/N71075
Megasonics	DDM	S/N71076
Megasonics	DDM	S/N71077
Megasonics	DDM	S/N71079
Megasonics	DDM	S/N71080

Ultrasonic Couplant

<u>Type</u>	<u>Batch #</u>
Ultragel II	8764

Ultrasonic Test Blocks

<u>Type</u>	<u>S/N</u>
IIW-2 C/S	S/N788445
4-Step Wedge S/S	S/N87-3264
4-Step Wedge S/S	S/N87-3265
5-Step Wedge C/S	S/N87-3266
5-Step Wedge C/S	S/N87-3267
5-Step Wedge C/S	S/N87-3268
IIW-2 C/S	S/N87-3260
IIW-2 C/S	S/N87-3261
IIW-2 S/S	S/N789071
IIW-2 S/S	S/N792654
IIW-2 S/S	S/N793925
IIW-2 S/S	S/N793926
IIW-2 S/S	S/N793927

<u>Type</u>	<u>S/N</u>
4-Step Wedge S/S	S/N793928
4-Step Wedge S/S	S/N793929
5-Step Wedge S/S	S/N793930
5-Step Wedge S/S	S/N793931

Thermometers

<u>Manufacturer</u>	<u>Type</u>	<u>S/N</u>
PTC	Surface	S/N1009
PTC	Surface	S/N1010
PTC	Surface	S/N1011
PTC	Surface	S/N1012
PTC	Surface	S/N1013
PTC	Surface	S/N1014
PTC	Surface	S/N1015
PTC	Surface	S/N1016
PTC	Surface	S/N1017
PTC	Surface	S/N1018
PTC	Surface	S/N.019
PTC	Surface	S/N1020
PTC	Surface	S/N1021
PTC	Surface	S/N1022
PTC	Surface	S/N1023
PTC	Surface	S/N1024
PTC	Surface	S/N1025
PTC	Surface	S/N1026
PTC	Surface	S/N1027
PTC	Surface	S/N1028
PTC	Surface	S/N1029
PTC	Surface	S/N1030
PTC	Surface	S/N1031
PTC	Surface	S/N1032
PTC	Surface	S/N1033
PTC	Surface	S/N1034
PTC	Surface	S/N1035
PTC	Surface	S/N1099
PTC	Surface	S/N1100
PTC	Surface	S/N1101
PTC	Surface	S/N1102
PTC	Surface	S/N1103
PTC	Surface	S/N1104
PTC	Surface	S/N1105
PTC	Surface	S/N1106
PTC	Surface	S/N1107
PTC	Surface	S/N1108
PTC	Surface	S/N1109
PTC	Surface	S/N1110
PTC	Surface	S/N1111
PTC	Surface	S/N1112
PTC	Surface	S/N1113

<u>Manufacturer</u>	<u>Type</u>	<u>S/N</u>
PTC	Surface	S/N1114
PTC	Surface	S/N1115
PTC	Surface	S/N1116
PTC	Surface	S/N1117
PTC	Surface	S/N1117
PTC	Surface	S/N1118
PTC	Surface	S/N1119
PTC	Surface	S/N1120
PTC	Surface	S/N1121
PTC	Surface	S/N1121
PTC	Surface	S/N1124
PTC	Surface	S/N1125
PTC	Surface	S/N1126
PTC	Surface	S/N1127
PTC	Surface	S/N1128

Magnetic Particle Equipment

<u>Manufacturer</u>	<u>Type</u>	<u>S/N</u>
Parker	DA-200	8916
Parker	DA-200	8947
Parker	DA-200	8950
Parker	B-300	1580
Parker	B-300	1627

Magnetic Particle Material

<u>Manufacturer</u>	<u>Type</u>	<u>Batch #</u>
Magnaflux	8A Red Powder	86M023
Magnaflux	20B Magnaglo	87B062
Magnaflux	14AM Prepared Bath	86L055
Magnaflux	14AM Prepared Bath	86J063

Liquid Penetrant Material

<u>Manufacturer</u>	<u>Type</u>	<u>Batch #</u>
Magnaflux	Zyglo Developer ZP-4B	87F041
Magnaflux	Zyglo Penetrant ZL-54	86M009
Magnaflux	Zyglo Penetrant ZL-54	86C03W
Magnaflux	Zyglo Penetrant ZL-30A	87B02W
Spotcheck Developer	SKD-NF/ZP-9B	87B040
Spotcheck Cleaner	SKC-NF/ZC-7B	86M030
Spotcheck Cleaner	SKC-NF/ZC-7B	87B029
Spotcheck Cleaner	SKC-NF/ZC-7B	86H019
Spotcheck Developer	SKD-NF/ZP-9B	87J015
Spotcheck Developer	SKD-NF/ZP-9B	87A006
Spotcheck Penetrant	SKL-HF/S	87L033
Spotcheck Penetrant	SKL-HF/S	87F083

NUSCO EQUIPMENT

Ultrasonic Instrumerts

<u>Manufacturer</u>	<u>Type</u>	<u>S/N</u>
K-B Aerotech	USL-38	S/N210158
K-B Aerotech	USL-38	S/N210760
K-B Aerotech	USL-38	S/N210761
K-B Aerotech	USL-38	S/N211178
Panametrics	EPOCH 2002	S/N382
Panametrics	EPOCH 2002	S/N383

Ultrasonic Transducers

<u>Manufacturer</u>	<u>Type</u>	<u>S/N</u>
Dapco	D3 3/8"	S/N41845
Dapco	D3 3/8"	S/N53843
Dapco	D3 3/8"	S/N51848
Dapco	D3 3/8"	S/N51850
Dapco	D3 3/8"	S/N51851
Dapco	D3 3/8"	S/N51852
Dapco	D3 3/8"	S/N51854
Harisonic	HS 222	S/NE6141
Harisonic	HS 222	S/NE6142
Harisonic	HS 222	S/NE6143
Harisonic	HS 222	S/NE6144
Harisonic	HS 222	S/NE6145
Harisonic	HS 222	S/NE6146
Harisonic	HS 222	S/NE6147
Harisonic	HS 222	S/NE6148
K-B Aerotech	GAMMA	S/NA02628
K-B Aerotech	GAMMA	S/NA10307
K-B Aerotech	GAMMA	S/NA21513
K-B Aerotech	GAMMA	S/NA23652
K-B Aerotech	GAMMA	S/NA23461
K-B Aerotech	GAMMA	S/NA26462
K-B Aerotech	ALPHA HP	S/NA29550
K-B Aerotech	ALPHA HP	S/NA28551
K-B Aerotech	GAMMA	S/NA31369
K-B Aerotech	GAMMA	S/NB02363
K-B Aerotech	GAMMA	S/NB11541
K-B Aerotech	GAMMA	S/NB11543
K-B Aerotech	GAMMA	S/NB25550
K-B Aerotech	GAMMA	S/NE25553
K-B Aerotech	GAMMA	S/NC14621
K-B Aerotech	GAMMA SST	S/NC20128
K-B Aerotech	GAMMA SET	S/NC20130
K-B Aerotech	WSY 70-Z	S/NC22601
K-B Aerotech	WSY 70-Z	S/NC22603
K-B Aerotech	WSY 70-Z	S/NC22604
K-B Aerotech	WSY 70-Z	S/NC22607

<u>Manufacturer</u>	<u>Type</u>	<u>S/N</u>
K-B Aerotech	GAMMA HP	S/NC26026
K-B Aerotech	GAMMA	S/ND17688
K-B Aerotech	GAMMA	S/ND17695
K-B Aerotech	GAMMA	S/ND18602
K-B Aerotech	GAMMA HP	S/ND18619
K-B Aerotech	GAMMA HP	S/ND18627
K-B Aerotech	GAMMA	S/ND25618
K-B Aerotech	GAMMA	S/NE22645
K-B Aerotech	GAMMA	S/NE22652
K-B Aerotech	GAMMA	S/NE22657
K-B Aerotech	GAMMA	S/NE22658
K-B Aerotech	GAMMA	S/NE29232
K-B Aerotech	GAMMA	S/NF03122
K-B Aerotech	GAMMA	S/NF03125
K-B Aerotech	GAMMA	S/NF04225
K-B Aerotech	GAMMA	S/NF10506
K-B Aerotech	GAMMA	S/NF11204
K-B Aerotech	GAMMA	S/NF12212
K-B Aerotech	GAMMA SST	S/NF15164
K-B Aerotech	GAMMA	S/NF16223
K-B Aerotech	GAMMA	S/NB16235
K-B Aerotech	GAMMA	S/NF18229
K-B Aerotech	GAMMA	S/NF23611
K-B Aerotech	GAMMA	S/NF26508
K-B Aerotech	GAMMA	S/NF27608
K-B Aerotech	GAMMA	S/NF27616
K-B Aerotech	GAMMA	S/NF27618
K-B Aerotech	GAMMA	S/NF27622
K-B Aerotech	GAMMA	S/NF30220
K-B Aerotech	GAMMA	S/NF30221
K-E Aerotech	GAMMA	S/NG03514
K-B Aerotech	GAMMA	S/NG07624
K-B Aerotech	GAMMA	S/NG07625
K-B Aerotech	GAMMA	S/NG09600
K-B Aerotech	GAMMA	S/NG15615
K-B Aerotech	GAMMA	S/NG15619
K-B Aerotech	GAMMA	S/NG15620
K-B Aerotech	GAMMA	S/NG15624
K-B Aerotech	GAMMA	S/NG29132
K-B Aerotech	GAMMA	S/NH20505
K-B Aerotech	GAMMA	S/NH20530
K-B Aerotech	GAMMA	S/NH21165
K-B Aerotech	GAMMA	S/NH30549
K-B Aerotech	GAMMA	S/NJ03269
K-B Aerotech	GAMMA	S/NJ05524
K-B Aerotech	GAMMA	S/NK02116
K-B Aerotech	GAMMA	S/NF02124
K-B Aerotech	GAMMA	S/NK03136
K-B Aerotech	GAMMA	S/NK03352
K-B Aerotech	ALPHA	S/NK05695
K-B Aerotech	ALPHA	S/NK05696



<u>Manufacturer</u>	<u>Type</u>	<u>S/N</u>
K-B Aerotech	ALPHA	S/NK05697
K-B Aerotech	ALPHA	S/NK05698
K-B Aerotech	GAMMA	S/NK11584
K-B Aerotech	GAMMA	S/NK23010
K-B Aerotech	GAMMA	S/NKB2863
K-B Aerotech	GAMMA	S/NKB2865
K-B Aerotech	GAMMA	S/NKB2866
K-B Aerotech	GAMMA	S/NM16512
K-B Aerotech	GAMMA	S/NM19537
K-B Aerotech	GAMMA	S/NM19546
K-B Aerotech	ANN 2-2-2	S/N00269T
K-B Aerotech	ANN 2-2-2	S/N00841T
K-B Aerotech	MWB 60 N4	S/N2
K-B Aerotech	MWB 60 N4	S/N4
K-B Aerotech	MWB 45 N4	S/N5
K-B Aerotech	MWB 45 N4	S/N6
K-B Aerotech	MWB 45 N4	S/N7
K-B Aerotech	MWB 45 N4	S/N10
K-B Aerotech	GAMMA	S/N53477
K-B Aerotech	GAMMA	S/N85393
Megasonics	MOST	S/N61211
Megasonics	CGD	S/N61212
Megasonics	MST	S/N61213
Megasonics	CGD	S/N61222
Megasonics	RST	S/N61223
Nortec	ZT-Z 1/4"	S/N 5551
Nortec	ZT-Z 1/4"	S/N1556J
Nortec	ZT-Z 1/4"	S/N15565
Stresstel	T-SCOPE	S/N2914
Stresstel	T-SCOPE	S/N2915
Stresstel	T-SCOPE	S/N2916
Stresstel	T-SCOPE	S/N2917
Stresstel	T-SCOPE	S/N2918

Liquid Penetrant Material

<u>Manufacturer</u>	<u>Type</u>	<u>Batch #</u>
Magnaflux	Sporcheck Developer	SKD-NF/ZP-9B

Ultrasonic Instruments

<u>Manufacturer</u>	<u>Type</u>	<u>S/N</u>
Sonic	MK 1	S/N13123E

Ultrasonic Test Blocks

<u>Manufacturer</u>	<u>Type</u>	<u>S/N</u>
ATS	1" Angle Beam	S/N796762
ATS	1" Angle Beam	S/N796763
ATS	1" Angle Beam	S/N796764
ATS	1" Angle Beam	S/N796765
ATS	1" Angle Beam	S/N796766
ATS	1" Angle Beam	S/N796767

Ultrasonic Transducers

<u>Manufacturer</u>	<u>Type</u>	<u>S/N</u>
K-B Aerotech	GAMMA	S/N15240
K-B Aerotech	WSY 70-2	S/NK11549
K-B Aerotech	GAMMA	S/N30329
K-B Aerotech	GAMMA	S/NK28515
Panametrics		S/N70907
Panametrics		S/N71133
Panametrics		S/N75581
Technisonic	TS-225	S/NT9238
Technisonic	TS-224	S/NT9195-2
Technisonic	TS-224	S/NT9195-1
Technisonic	TS-223	S/NT9194-2
Technisonic	TS-223	S/NT9194-1
Technisonic	TS-176	S/NT8483
Technisonic	Dual Volume	S/NT7823

5. EVALUATION CRITERIA

5.1 Acceptance Standards

Acceptance criteria, in general, was based on ASME Section XI, Subsection IWA-3000 for all categories of components. Subsection IWB-3000 was used as the acceptance standard for the specific examination categories for which such rules have been developed. These rules were used in the evaluation of defects in Class 2 and 3 pressure retaining components of the corresponding examination category. IWF-3000 was used for evaluating Class 1, 2, and 3 component supports.

5.2 ASME, Section XI Repairs and Replacements

When repairs or replacements of pressure retaining components and their supports were required, they were performed in accordance with Millstone Administrative Procedure ACP-QA-2.18, "ASME Section XI Repair/Replacements."

6. REPAIRS/REPLACEMENTS

6.1 Inservice Inspection Repairs

All defects noted during ISI with dimensions exceeding the acceptance criteria (see Section 5.0) were identified for repair in accordance with ACP-QA-9.06A, "Inservice Inspection Unresolved Indication Reporting.

6.1.1 The defect removal was performed by NNECO in accordance with the appropriate NNECO procedures and Quality Assurance Requirements.

6.1.2 Upon completion of the repair, the area or volume containing the defect was reexamined using the same examination method which was employed when the defect was detected. These reexams were either performed by ISI personnel, or the repair records from NNECO were reviewed to verify defect removal. NNECO records were employed only in cases where their program required verification of defect removal using the same NDE method as that employed by ISI personnel to detect the defect.

6.1.3 Owner's Report for Repair or Replacements, Form NIS-2, is Attachment 1.

6.2 Plant Design Change Requests (PDCRs) involving Section XI Repairs or Replacements to IWA-4000 or 7000 are listed in Attachment 2. These include examinations, tests, replacements, and repairs on piping and components conducted since the preceding summary report (PSI), as shown on the Owner's Report, Form NIS-2, in Attachment 2.

6.3 Repairs and replacements to component supports are listed and shown on the NIS-2 reports in Attachment 3.

6.4 All records for repairs and replacements required by IWA-6000 are maintained at the Millstone Nuclear Power Station.

ATTACHMENT 1

ATTACHMENT 1

REPAIRS/REPLACEMENTS RESULTING FROM INSERVICE INSPECTION DURING 1987 REFUELING OUTAGE

- 1) RCP "D" Seal Bolting.
- 2) Gouge in High Pressure Safety Injection Line.
- 3) Indication found on Feedwater Penetration "5".
- 4) Loose bolts on supports.

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

1. Owner Northeast Utilities Service Co. Date 3/14/88  
Name

P. O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit III  
Name

P. O. Box 128 Waterford, CT 06385 M3-88-00280  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P. O. Box 128, Waterford, CT  
Address

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3RCS*P1D	STD Pressed	N/A	N/A	1741C63H001	1985	Replacement	Yes

No. 1 seal Steel

Housing bolts

(16)

7. Description of Work Replacement of Reactor Coolant Pump Seal Housing Bolts ("D" Pump)

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X /

Other / / Pressure 2295 psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Supv Date 4/20/88, 19 88  
 Owner or ~~Owner's~~ Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by HSB I.I of HARTFORD have inspected the components described in this Owner's Report during the period 11-1-87 to 4-20-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. J. [Signature] Commissions CT 11113  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4 20 1988



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

1. Owner Northeast Utilities Service Co. Date 3/8/88  
Name

P. O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P. O. Box 128, Waterford, CT 06385 ME-87-18288  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P. O. Box 128, Waterford, CT  
Address

4. Identification of System High Pressure Safety Injection System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, NA Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
SIH-2	SANDVIK	465376	N/A	Att. 6	1985	Repair	Yes

7. Description of Work Light grinding to blend in a gouge

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

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

FORM NIS-2 (Back)

9. Remarks Inspections performed - Liquid Penetrant, visual and ultrasonic examination.

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng S-pv Date 7/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by NSBI&I of Hartford have inspected the components described in this Owner's Report during the period 3/11/88 to 4-20-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-20 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/8/88  
Name

P. O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit III  
Name

P. O. Box 128, Waterford, CT 06385 M3-87-18253  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P. O. Box 128, Waterford, CT  
Address

4. Identification of System Feedwater System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, 1322 Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
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FWS

Pent. #5 Graver 60900N-P69 8287 PL-10207-11 1977 Repair Yes

7. Description of Work Indications removed by mechanical means. Excavation was rewelded.

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

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

FORM NIS-2 (Back)

9. Remarks Indications were found during ISI examinations. Inspections performed on the reworked area  
included; magnetic particle, liquid penetrant and ultrasonic examinations.

CERTIFICATE OF COMPLIANCE

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

Signed *Tulay* *Asst Eng Supv* Date *4/20*, 19 *88*  
 Owner or ~~Owner's~~ Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I  
 of Hartford have inspected the components described in this Owner's Report  
 during the period 3/14/88 to 4-20-88, and state that to the best of my  
 knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's  
 Report in accordance with the requirements of the ASME Code, Section XI.

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

*R J Z...* Commissions *CT 1119*  
 Inspector's Signature National Board, State, Province, and Endorsements  
 Date *4 20* 19 *88*

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

1. Owner Northeast Utilities Service Co. Date 3/14/88  
Name

P. O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 See Other Identification  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Feedwater

5. (a) Applicable Construction Code ANSI B31.1 1971 Edition, 73 Addenda, \_\_\_\_\_ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
FWS-1-PSSH-005	S&W	N/A	N/A	M3-87-17773	N/A	Repair	
FWS-1-PSSH-010	S&W	N/A	N/A	M3-87-17976	N/A	Repair	
FWS-1-PSSH-014	S&W	N/A	N/A	M3-88-01196	N/A	Repair	
RHS-1-PSST-002	S&W	N/A	N/A	M3-88-01193	N/A	Repair	

7. Description of Work Tighten loose bolts/nuts found during ISI inspection.

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure / /  
Other / X / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Supv Date 4/20, 19 85  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by HSA ICI of HARTFORD have inspected the components described in this Owner's Report during the period 1-2-88 to 4-2-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 1988

ATTACHMENT 2

ATTACHMENT 2

CLASS 1 REPAIRS/REPLACEMENTS

- 1) RTD Bypass Line Removal (PDCR #M3-87-025).
- 2) S/G "A" Tube Plugging.
- 3) S/G "D" Tube Plugging.
- 4) S/G Primary Manway Modification.
- 5) Replacement of Primary Manway Bolting with Studs, Washers, and Nuts (PDCR M3-87-069).
- 6) Replacement of RCS Safeties.
- 7) Replacement of RCS Safeties.
- 8) Repair of PORV Steam Cuts.
- 9) Replacement of Stud on Pressurizer Safety.
- 10) Repair of PORV Steam Cuts.
- 11) Replacement of PORV Studs.
- 12) Replacement of Studs on RCS\*V030.
- 13) Replacement of Stud on RTD Flow Indication.
- 14) Replacement of Nut on RCS\*V097.
- 15) Replacement of PORV Solenoid Valves.
- 16) Machining of RCS Flange (RCS-006-84-1).



ATTACHMENT 2

CLASS 2 REPAIRS/REPLACEMENTS

- 1) Replacement of RCP "A" Seal Leakoff Line Flex Hose.
- 2) Repair of CHS\*RV8117.
- 3) Repair of CHS\*RV8117.
- 4) Replacement of FWS\*V864.
- 5) Repair of Steam Cuts on FWS\*V898.
- 6) Condensate POT Replacement (PDCR MP3-87-057).
- 7) Machining of S/G Secondary Side Handholes.
- 8) Replacement of Secondary Side Handhole Bolts (S/G A).
- 9) S/G "A" Handhole Helicoil Repair.
- 10) S/G "D" Handhole Repair.
- 11) Repair of MSS\*CTV27D.
- 12) Replacement of MSS\*CTV27D Control Block Bolting.
- 13) Repair of MSS\*A0V31D.
- 14) Replacement of Main Steam Safeties.
- 15) S/G Nitrogen Modification PDCR MP3-86-043.
- 16) Auxiliary Feedwater Valve FWA\*HV31C Replacement.
- 17) Replacement of 3SIL\*SV8875B.
- 18) Sliding block on RHK Heat Exchanger.
- 19) Repair of RSS\*MOV-38A.
- 20) Repair of Steam Generator D Handholes.
- 21) Repair of MSS&CTV27 A/B/C.
- 22) Steam Generator Blowdown Sample (SSR\*CTV19B) Replacement.
- 23) Steam Generator Blowdown Sample (SSR\*CTV19C) Replacement.
- 24) Replacement of FWS-V968.
- 25) Replacement of MSS-CTV-27D Disc Holdown Screws.

ATTACHMENT 2

CLASS 3 REPAIR/REPLACEMENT

- 1) Charging Pump Cooling Vent Replacement.
- 2) Modification to CCP\*V18.
- 3) Swapping of CCP\*V05 with CCP\*V06.
- 4) Replacement of EGF\* Hose 1B/2B.
- 5) Disc replacement of QSS\*V029.
- 6) Hydro of Hose for EDG Fuel Oil.
- 7) Replacement of SWP Capped Nipple.
- 8) Repair of Service Water Tee.
- 9) Repair/Replacement of Service Water Fittings.
- 10) Service Water Pump Discharge Valve Replacement (PDCR MP3-86-153).
- 11) Repair of Service Water Pipe.
- 12) Replacement of Studs and Nuts on SWPV705.
- 13) Replace CCP Heat Exchanger Cover Plate Bolts.
- 14) RCP 'A' Removal Interferences.
- 15) RCP 'C' Removal Interferences.

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

1. Owner Northeast Utilities Service Co. Date 3/14/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 4  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 See Attached  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification (AWO No.)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
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See Attached

7. Description of Work Removal of the RTD Bypass Lines

8. Tests Conducted: Hydrostatic /X/ Pneumatic / / Nominal Operating Pressure / /  
Other / / Pressure 2295 psi Test Temp. 500 °F

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

Attachment

PDCR #MP3-87-025, "RTD Bypass Loop Elimination Modification."

This PDCR removes valves, piping, snubbers, and supports associated with the RTD Bypass system and replaces them with thermowell mounted, fast response RTDs which are installed directly in the RCS pipe.

The modifications begin with the removal of the existing bypass piping at each connection point to the RCS. The existing hot and cold leg penetrations are machined to accept RTD thermowells or capped and new thermowell bosses installed. The thermowell is mounted inside the boss and the RTD is installed within the thermowell. The crossover leg connection is capped.

Associated AWOs

M3-87-13789	Removal of "C" loop RTD bypass lines
M3-87-13790	Removal of "B" loop RTD bypass lines
M3-87-13791	Removal of "A" loop RTD bypass lines
M3-87-13793	Removal of "D" loop RTD bypass lines
M3-87-14313	Temporarily remove tubing on Loop "A"
M3-87-14314	Temporarily remove tubing on Loop "B"
M3-87-14316	Temporarily remove tubing on Loop "C"
M3-87-13911	Installation of RTD (Loop B)
M3-87-13912	Installation of RTD (Loop C)
M3-87-13914	Installation of RTD (Loop D)
M3-87-13834	Installation of RTD (Loop A)

following have been removed:

<u>LINE NUMBER</u>	<u>VALVE NUMBER</u>	<u>LINE NUMBER</u>	<u>VALVE NUMBER</u>
RCS-002-44-1 (A-)	RCS*V19 (A-)	RCS-002-52-1 (C-)	RCS*V95 (C-)
RCS-750-151-4	RCS*V20 (A-)	RCS-750-155-4	RCS*V96 (C-)
RCS-750-186-2 (A-)	RCS*V42 (A-)	RCS-750-190-2 (C-)	RCS*V118 (C-)
RCS-002-194-1 (A-)	RCS*V43 (A-)	RCS-002-196-1 (C-)	RCS*V120 (C-)
RCS-001-202-1 (A-)		RCS-001-208-1 (C-)	
RCS-001-203-1 (A-)		RCS-001-209-1 (C-)	
RCS-001-204-1 (A-)		RCS-001-210-1 (C-)	
RCS-002-46-1 (A-)	RCS*V16 (A-)	RCS-002-54-1 (C-)	RCS*V92 (C-)
RCS-002-47-1 (A-)	RCS*V17 (A-)	RCS002-55-1 (C-)	RCS*V93 (C-)
RCS-750-152-4	RCS*V18 (A-)	RCS*V94 (C-)	
RCS-750-187-2 (A-)	RCS*V40 (A-)	RCS-750-191-2 (C-)	RCS*V119 (C-)
	RCS*V41 (A-)		RCS*V121 (C-)
RCS-002-48-1 (B-)	RCS*V63 (B-)	RCS-750-158-4	RCS*V137 (D-)
RCS-750-153-4	RCS*V64 (B-)	RCS-750-192-2 (D-)	RCS*V157 (D-)
RCS-750-188-2 (B-)	RCS*V78 (B-)	RCS-002-191-1 (D-)	RCS*V159 (D-)
RCS-002-195-1 (B-)	RCS*V79 (B-)	RCS-001-211-1 (D-)	
RCS-001-205-1 (B-)		RCS-001-212-1 (D-)	
RCS-001-206-1 (B-)		RCS-001-213-1 (D-)	
RCS-001-207-1 (B-)		RCS-002-58-1 (D-)	RCS*V133 (D-)
RCS-002-50-1 (B-)	RCS*V60 (B-)	RCS-002-59-1 (D-)	RCS*V134 (D-)
RCS-002-51-1 (B-)	RCS*V61 (B-)	RCS-750-157-4	RCS*V135 (D-)
RCS-750-154-4	RCS*V62 (B-)	RCS-750-193-2 (D)	RCS*V158 (D-)
RCS-750-189-2 (B-)	RCS*V76 (B-)		RCS*V160 (D-)
	RCS*V77 (B-)	RCS-003-53-1 (C-)	RCS*V97 (C-)

<u>LINE NUMBER</u>	<u>VALVE NUMBER</u>	<u>LINE NUMBER</u>	<u>VALVE NUMBER</u>
RCS-003-45-1 (A-)	RCS*V21 (A-)	RCS-003-169-1 (D-)	RCS*V139 (D-)
RCS-003-166-1 (A-)	RCS*V22 (A-)	RCS-003-49-1 (B-)	RCS*V65 (B-)
RCS-003-57-1 (D-)	RCS*V138 (D-)	RCS-003-167-1 (B-)	RCS*V66 (B-)

The following is a list of snubbers and spring cans removed:

<u>SUPPORT NUMBER</u>	<u>SUPPORT NUMBER</u>	<u>SUPPORT NUMBER</u>	<u>SUPPORT NUMBER</u>
3RCS-1-PSSH-067	3RCS-1-PSSP-465	3RCS-1-PSSP-210	3RCS-1-PSSP-231
3RCS-1-PSSH-068	3RCS-1-PSSP-467	3RCS-1-PSSP-211	3RCS-1-PSSP-232
3RCS-1-PSSH-069	3RCS-1-PSSP-468	3RCS-1-PSSP-212	3RCS-1-PSSP-233*
3RCS-1-PSSH-070	3RCS-1-PSSP-469	3RCS-1-PSSP-213*	3RCS-1-PSSP-234
3RCS-1-PSSP-433	3RCS-1-PSSP-470	3RCS-1-PSSH-214	3RCS-1-PSSH-235
3RCS-1-PSSP-434	3RCS-1-PSSP-471	3RCS-1-PSSP-215	3RCS-1-PSSP-236*
3RCS-1-PSSP-435	3RCS-1-PSSP-472	3RCS-1-PSSH-216	3RCS-1-PSSH-237
3RCS-1-PSSP-436	3RCS-1-PSSP-473	3RCS-1-PSSP-217	3RCS-1-PSSP-238
3RCS-1-PSSP-437	3RCS-1-PSSP-474	3RCS-1-PSSP-218	3RCS-1-PSSP-239
3RCS-1-PSSP-438	3RCS-1-PSSP-475	3RCS-1-PSSP-219	3RCS-1-PSSP-240
3RCS-1-PSSP-439	3RCS-1-PSSP-476	3RCS-1-PSSP-220	3RCS-1-PSSP-241
3RCS-1-PSSP-440	3RCS-1-PSSP-477	3RCS-1-PSSH-221*	3RCS-1-PSSH-242
3RCS-1-PSSP-441	3RCS-1-PSSP-201	3RCS-1-PSSP-222	3RCS-1-PSSP-243
3RCS-1-PSSP-442	3RCS-1-PSSH-202	3RCS-1-PSSH-223	3RCS-1-PSSH-244
3RCS-1-PSSP-444	3RCS-1-PSSP-203	3RCS-1-PSSP-224	3RCS-1-PSSP-245
3RCS-1-PSSP-454	3RCS-1-PSSP-204	3RCS-1-PSSP-225	3RCS-1-PSSP-246
3RCS-1-PSSP-455	3RCS-1-PSSP-205	3RCS-1-PSSP-226	3RCS-1-PSSP-247
3RCS-1-PSSP-456	3RCS-1-PSSP-206	3RCS-1-PSSP-227	3RCS-1-PSSP-248*
3RCS-1-PSSP-466	3RCS-1-PSSP-207	3RCS-1-PSSP-228	3RCS-1-PSSP-249*
3RCS-1-PSSP-464	3RCS-1-PSSH-208	3RCS-1-PSSH-229	3RCS-1-PSSH-250
3RCS-1-PSSP-252	3RCS-1-PSSP-209	3RCS-1-PSSP-230	3RCS-1-PSSP-251
3RCS-1-PSSP-253	3RCS-1-PSSH-263	3RCS-1-PSSP-274	3RCS-1-PSSP-1503
3RCS-1-PSSP-254	3RCS-1-PSSP-264	3RCS-1-PSSP-275 *	3RCS-1-PSSP-1504
3RCS-1-PSSP-255	3RCS-1-PSSH-265	3RCS-1-PSSP-276	3RCS-1-PSSP-1505
3RCS-1-PSSP-256	3RCS-1-PSSP-266	3RCS-1-PSSH-277	3RCS-1-PSSP-1506
3RCS-1-PSSH-257	3RCS-1-PSSP-267	3RCS-1-PSSP-278	3RCS-1-PSSP-1507
3RCS-1-PSSP-258	3RCS-1-PSSP-268	3RCS-1-PSSH-279	3RCS-1-PSSP-1508
3RCS-1-PSSH-259	3RCS-1-PSSP-269 *	3RCS-1-PSSP-280	3RCS-1-PSSP-1509
3RCS-1-PSSP-260	3RCS-1-PSSP-270	3RCS-1-PSSP-281	3RCS-1-PSSP-1510
3RCS-1-PSSP-261	3RCS-1-PSSH-271	3RCS-1-PSSP-282 *	
3RCS-1-PSSP-262	3RCS-1-PSSP-272	3RCS-1-PSSP-283	
	3RCS-1-PSSP-273	3RCS-1-PSSH-284	

PER E&DCR N-ME-04485 Five additional supports were removed:

RCS-1-PSR-1531	RCS-1-PSR-1538
RCS-1-PSR-1532	RCS-1-PSR-1535
RCS-1-PSR-1537	

\*These supports remain and are reused as seismic conduit supports.

FORM NIS-2 (Back)

Remarks Inspections performed - ultrasonic inspection, visual, liquid penetrant and radiographic examination (as applicable).

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement \_\_\_\_\_ conforms to the rules of the ASME Code, Section XI. Repair or replacement

Signed *[Signature]* Asst Eng Supv Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by HSA I&I of Hartford have inspected the components described in this Owner's Report during the period 1/21/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Date 1/28/89  
Name

P.O. Box 128, Waterford, CT Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT M3-87-16397  
Address Authorized Work Order Number

3. Work Performed by Westinghouse  
Name

P.O. Box 340175P, Pitt., PA  
Address

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, 1484-3/1528-3 Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
S/G A	Westinghouse	NECT-1776	13584	RCS-SG1A	1981	Repaired	Yes

7. Description of Work Plugging of tube number Row 50, Col. 94

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

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

FORM NIS-2 (Back)

9. Remarks Due to AVB wear, see special report to NRC.

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CERTIFICATE OF COMPLIANCE

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

Signed *Duly* Asst Eng Supt Date 4/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by MSB I&I of Hartford have inspected the components described in this Owner's Report during the period 1/27/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R J J m* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88



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

1. Owner Northeast Utilities Date 1/28/89  
Name

P.O. Box 128, Waterford, CT Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT M3-87-16399  
Address Authorized Work Order Number

3. Work Performed by Westinghouse  
Name

P.O. Box 34017SP, Pitt., PA  
Address

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, 1484-3/1528-3 Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S73

6. Identification of Components repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
S/C D	Westinghouse	NEGT-1777	15215	RCS-SG:D	1981	Repaired	Yes

7. Description of Work Plugging of tube number Row 48, Col. 98

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

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

FORM NIS-2 (Back)

9. Remarks Due to ABV wear, see specia. report to NRC.

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CERTIFICATE OF COMPLIANCE

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

Signed *Duly* Asst Eng Supv Date 4/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 1/28/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R. J. Z...* Commissions 05-119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/7/88  
Name \_\_\_\_\_  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address \_\_\_\_\_
2. Plant Millstone Nuclear Power Station Unit III  
Name \_\_\_\_\_  
P.O. Box 128, Waterford, CT 06385 M3-87-16441/16442/16443/16444  
Address \_\_\_\_\_ Authorized Work Order Number \_\_\_\_\_
3. Work Performed by Millstone Station  
Name \_\_\_\_\_  
P.O. Box 128, Waterford, CT  
Address \_\_\_\_\_
4. Identification of System RCS
5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3RCS*		NEGT-		Drawing Number			
SG1A	Westinghouse	1776	13584	1106J72	1981	Replacement	Yes
SG1B	Westinghouse	1775	13583	1106372	1981	Replacement	Yes
SG1C	Westinghouse	1778	15216	1106572	1981	Replacement	Yes
SG1D	Westinghouse	1777	15215	1106572	1981	Replacement	Yes

7. Description of Work Modification to increase screw size from 1/2" to 3/4" on S/G Primary Manway Diaphragm
8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /  
Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

Remarks Modification is to facilitate installation.

CERTIFICATE OF COMPLIANCE

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

Signed *Tulyan* *Asst Eng S-IV* Date *4/20*, 19 *88*  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/11/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R J L...* Commissions *CT-19*  
Inspector's Signature National Board, State, Province, and Endorsements

Date *4-21* 19 *88*

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

1. Owner Northeast Utilities Service Co. Date 3/9/88  
Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address
2. Plant Millstone Nuclear Power Station Unit 111  
Name  
P.O. Box 128, Waterford, CT 06385 M3-87-13845/18346/13847/13848  
Address Authorized Work Order Number
3. Work Performed by Millstone Station  
Name  
P.O. Box 128, Waterford, CT  
Address
4. Identification of System Reactor Coolant System
5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3RCS*		NEGT		Drawing Number			
SG1A	Westinghouse	1776	13584	1106J72	1981	Replacement*	Yes
SG1B	Westinghouse	1775	13583	1106J72	1981	Replacement*	Yes
SG1C	Westinghouse	1778	13216	1106J72	1981	Replacement*	Yes
SG1D	Westinghouse	1777	13215	1106J72	1981	Replacement*	Yes

7. Description of Work Installation of primary manway diaphragms and manway covers.
8. Tests Conducted: Hydrostatic /x/ Pneumatic / / Nominal Operating Pressure / /  
Other / / Pressure 2295 psi Test Temp.  / / °F

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FORM NIS-2 (Back)

9. Remarks \*Replace bolts with studs, nuts, and washers compatible with hydraulic torque ring (PDCR  
MP3-87-069)

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CERTIFICATE OF COMPLIANCE

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

Signed *Tully* Ast Eng Supv Date 4/20, 19 88  
 Owner or Owner's Designee, Title

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CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by NSCR IAI of Hartford have inspected the components described in this Owner's Report during the period 3-11-88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R. J. [Signature]* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Service Co. Date 2/8/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-12479/12480/12482  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System RCS

5. (a) Applicable Construction Code ASME III 1971 Edition, W72 Addenda, NA Code Case  
(b) Applicable Edition Section XI Utilized for Repairs or replacements 1988, W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3RCS*SV		N56964-07					
-8010A	Crosby	-0102	1039	N/A	N/A	Replacement	Yes
-8010B	Crosby	-0101	1037	N/A	N/A	Replacement	Yes
-8010C	Crosby	-0103	1040	N/A	N/A	Replacement	Yes

7. Description of Work Reinstall refurbished original valves

8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /X/  
Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed *Tully* Asst Eng Supv Date 4/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/12/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R. J. [Signature]* Commissions CT1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88



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

1. Owner Northeast Utilities Service Co. Date 3/14/88  
Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address
2. Plant Millstone Nuclear Power Station Unit 111  
Name  
P.O. Box 128, Waterford, CT 06385 M3-88-02124  
Address Authorized Work Order Number
3. Work Performed by Millstone Station  
Name  
P.O. Box 128, Waterford, CT  
Address
4. Identification of System Reactor Coolant System
5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3RCS*SV							
8010A	Crosby	N56964-07-0101	1037	DS-C-56964-7	1983	Removed	Yes
8010A	Crosby	N56964-07-0059	N/A	DS-C-56964-7	1983	Replacement	Yes

7. Description of Work Valve Replacement
8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /X  
Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed [Signature] Asst Eng Supv Date 7/20, 19 88  
 Owner of Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by HSC Int'l of Hartford HSC Int'l have inspected the components described in this Owner's Report during the period 5-11-88 to 4-2-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions CT1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Service Co. Date 2/8/88  
 Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
 Address
2. Plant Millstone Nuclear Power Station Unit 111  
 Name  
P.O. Box 128, Waterford, CT 06385 M3-86-12155  
 Address Authorized Work Order Number
3. Work performed by Millstone Station  
 Name  
P.O. Box 128, Waterford, CT  
 Address

4. Identification of System RCS
5. (a) Applicable Construction Code ASME III 1977 Edition, S77 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
RCS*PCV456	Crosby	P-129	N/A	N/A	1983	Repair	Yes

7. Description of Work Machine seat to repair steam cuts
8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /X/  
 Other / Pressure \_\_\_\_\_ ps<sup>i</sup> Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed Tuly ASIT Eng Supv Date 7/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/12/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R J Z... Commissions CP1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4.21 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/11/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-05263  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ASME III 1971 Edition, W73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
							Yes
*	Crosby	N56964-070102	1039	DS-C-56964	1985	Replacement	Yes

\*Pressurizer Safety Spare Valve

7. Descriptor of Work Replacement of a stud galled on the test stand

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

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

FORM NIS-2 (Back)

Remarks None

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] Asst Eng Supv Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/14/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Service Co. Date 2/8/88  
Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name  
P.O. Box 128, Waterford, CT 06385 M3-86-12156  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name  
P.O. Box 128, Waterford, CT  
Address

4. Identification of System RCS

5. (a) Applicable Construction Code ASME III 1977 Edition, S77 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3RCS*PCV455A	Crosby	P131	N/A	N/A	1983	Repair	Yes

7. Description of Work Repair of steam cuts

8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /X/  
Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

Remarks None

CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Supt Date 4/20, 19 88  
Owner ~~or~~ Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/12/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R J [Signature] Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88



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

1. Owner Northeast Utilities Service Co. Date 2/8/88  
Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name  
P.O. Box 128, Waterford, CT 06385 M3-86-12156  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name  
P.O. Box 128, Waterford, CT  
Address

4. Identification of System RCS

5. (a) Applicable Construction Code ASME 111 1977 Edition, S77 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, W80

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
RCS*PVC455A	Crosby	P131	N/A	N/A	1983	Replacement	Yes

7. Description of Work Replacement of studs and nuts seized

8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /X/  
Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Studs SA199, Gr. B6, Nuts SA 194, Gr. B6

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CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Spt Date 4/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/12/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R J Zorn Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/11/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-12108  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, 1553-1 Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
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3RCS*	Drawing Number
V030	Westinghouse * N/A 5059046 1977 Replacement Yes

\*10000CS8B0000A000CS740008

7. Description of Work Replacement of two stud/nuts galled during disassembly for ISI.

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X /  
Other / / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks Visual inspection performed

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CERTIFICATE OF COMPLIANCE

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

Signed *Tulye* Asst Eng Sup Date 7/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by NSB ICI of Hartford have inspected the components described in this Owner's Report during the period 3-11-88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R J Linn* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 1988

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

1. Owner Northeast Utilities Service Co. Date 3/25/88  
Name

P.O. Bcx 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit III  
Name

P.O. Box 128, Waterford, CT 06385 M3-86-01901/07619/M3-87-04010/04019/04020  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3RCS-FIS							
417	*	N/A	N/A	N/A	1983	Replacement	Yes
427	*	N/A	N/A	N/A	1983	Replacement	Yes
437	*	N/A	N/A	N/A	1983	Replacement	Yes
447	*	N/A	N/A	N/A	1983	Replacement	Yes

\*Lone Star Screw

7. Description of Work Replacement of Studs/Nuts Due to Galling

8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /X/  
Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks None

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] ASST Eng Supt Date 7/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by HSP ICF of Hartford have inspected the components described in this Owner's Report during the period 8-1-88 to 8-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 8-21 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/28/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-03514  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3RCS*				Drawing Number			
V097	Walworth	A1938	1225	D-51318	1979	Replacement	Yes

7. Description of Work Replacement of Bonnet to Body Nut due to Galling

8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /X/  
Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

Remarks None

CERTIFICATE OF COMPLIANCE

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

Signed *Tully* Asst Eng Supv Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by AFC ICF of HARTFORD have inspected the components described in this Owner's Report during the period 3-11-88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R J Rosen* Commissions CT1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88



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

1. Owner Northeast Utilities Service Co. Date 3/28/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-03300/03304  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3RCS*PCV		K72030-		Drawing Number			
455A	Crosby	00-0001	N/A	DS-C-67990	1987	Replacement	Yes
456	Crosby	00-0003	N/A	DS-C-67970	1987	Replacement	Yes
455A	Crosby	00-0022	N/A	DS-C-67970	1987	Replacement	Yes
456	Crosby	00-0023	N/A	DS-C-67970	1987	Replacement	Yes

7. Description of Work Replacement of the PORV Solenoid Valve

8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /X/  
Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks None

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] Asst Eng Supt Date 7/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by NIS ICF of Hartford have inspected the components described in this Owner's Report during the period 3-11-88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Service Co. Date 4/11/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-07712  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3RCS-006-84-1	Stone & Webster	N/A	N/A	CI-3RCS-516	1983	Repair	Yes

7. Description of Work Removal by machining of nicks (.015" deep) on the gasket seating portion of flange.

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X /  
Other /X / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
LP test

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks None.

CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Supt Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSR I&I of Hartford have inspected the components described in this Owner's Report during the period 1/12/88 to 4/12/88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R J J Commissions CT1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-12-88 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/14/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit III  
Name

P.O. Box 128, Waterford, CT 06385 M3-88-01563  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Charging/Letdown System

5. (a) Applicable Construction Code ASME III 1980 Edition, W80 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code
							Stamped (Yes Or No)
3CHS*E3							
				Drawing Number			
1A	Metal Bellows	001	N/A	84269	1985	Removed	Yes
1A	Titeflex	002	N/A	109042-2	1985	Replaced	Yes

7. Description of Work Replacement of the Flex hose due to construction damage.

8. Tests Conducted: Hydrostatic /\_/\_/ Pneumatic /\_/\_/ Nominal Operating Pressure /X\_/  
Other /\_/\_/ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks Inspections performed - liquid penetrant and visual.

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CERTIFICATE OF COMPLIANCE

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

Signed [Signature] Asst Eng Supv Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by HSB I & J of HARTFORD have inspected the components described in this Owner's Report during the period 3-1-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/14/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-88-02106  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Charging Letdown

5. (a) Applicable Construction Code ASME III 1971 Edition, W73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME
							Code Stamped (Yes Or No)
<u>3CHS*RV</u>							
				<u>Drawing Number</u>			
<u>8117</u>	<u>Lonergran</u>	<u>407487-16-1</u>	<u>N/A</u>	<u>A-2616</u>	<u>1981</u>	<u>Repaired</u>	<u>Yes</u>

7. Description of Work Replacement of valve disc/nozzle and bellows.

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X/  
Other / / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks- Leak Rate Test performed and functional test upon completion of the repair.

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CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng. Supv. Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by HSS ICI of Hartford have inspected the components described in this Owner's Report during the period 3-1-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. J. [Signature] Commissions CT 1113  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88



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

1. Owner Northeast Utilities Service Co. Date 2/8/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-86-12112  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System CHS

5. (a) Applicable Construction Code ASME III 1971 Edition, W73 Addenda, NA Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
CHS*RV8117	Loneragan	407487-16-1	N/A	N/A	1979	Replacement	Yes

7. Description of Work Replacement of disc and nozzle.

8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /X  
Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks ~~None~~ <sup>m</sup> 4/20/88 LLRT performed

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CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Supv Date 4/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/12/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. J. [Signature] Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/11/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-08635  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Feedwater

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3FWS*							
V864	Hancock	H337ABC	N/A	N/A	N/A	Removed	No
V864	Hancock	H345ABC	N/A	N/A	N/A	Replacement	No

7. Description of Work Replacement of 3/4 inch valve

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

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Liquid penetrant examinations of welds performed.

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Ast Eng Sup Date 4/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/14/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT III G  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/11/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit III  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-11321  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Feedwater

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, 1635-1 Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
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3FWS\*

V898	Anchor/Darling	2N1019	N/A	3484-3	1977	Repair	Yes
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7. Description of Work Weld repair of steam cuts

8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /X/  
Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks inspections performed - visual inspection, leak test at normal operating pressure and liquid penetrant.

CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Supt Date 7/20, 19 88  
Owner or ~~Owner's~~ Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by HSD 272 of HARTFORD have inspected the components described in this Owner's Report during the period 3-11-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R J Z Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Date 1/28/88  
 Name \_\_\_\_\_  
P.O. Box 128, Waterford, CT Sheet 1 of 2  
 Address \_\_\_\_\_

2. Plant Millstone Nuclear Power Station Unit III  
 Name \_\_\_\_\_  
P.O. Box 128, Waterford, CT MP-3-87-14379/14380/14381/14382 - installation  
 Address \_\_\_\_\_ Authorized Work Order Number

3. Work Performed by C. N. Flagg & Co. MP3-87-13802-Fab./MP-3-87-14375/14376/14377/  
 Name \_\_\_\_\_ 14378 - tubing 1" m 4/10/88  
Meriden, CT Address \_\_\_\_\_

4. Identification of System Feedwater System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
							Yes
Steam Generator	S&W	N/A	N/A	N/A	N/A	Replacement	Yes
Condensate Pots							

7. Description of Work Steam Generator Condensate Pot Replacement per PDCR M3-87-057

8. Tests Conducted: Hydrostatic /X/ Pneumatic / / Nominal Operating Pressure / /  
 Other / / Pressure 1485 psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks PDCR MP-3-87-057, "Condensate Pot Replacement." The scope of this PDCR consists of: 1) Removal of all condensate pots, their supports and a portion of the tubing, root valves on all reference legs on the steam generators, 2) Prefabricate the new condensate pot configuration and install in-place seismic analysis indicates no need for support, and 3) shop hydro of the spool pieces (AWO MP3-87-15117).

E+DCR M-CS-04501/04540

CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Supv Date 7/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/23/88 to 4 27 88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R J [Signature] Commissions CT1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4 22 19 88



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

1. Owner Northeast Utilities Service Co. Date 3/7/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-13857/13858/13859  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Main Steam Generator Secondary Side Handholes (CL-2)

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, 1484-3/1528-3 Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code
							Stamped (Yes Or No)
3MSS*		NEGT		Drawing Number			
SG1B	Westinghouse	1775	13583	1106J72	1981	Repair	Yes
SG1C	Westinghouse	1778	15216	1106J72	1981	Repair	Yes
SG1D	Westinghouse	1777	15215	1106J72	1981	Repair	Yes

7. Description of Work Machine handhole covers to obtain proper fitup.

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X /  
Other MP exam Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks Modification to the S/G handhold cover seating surface is required to provide proper  
fl metallic compression.

CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Supt Date 7/20, 19 88  
 Owner of Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boile and Pressure Vessel Inspectors and the State or Province of CT and employed by NSD ICE  
 of HARTFORD have inspected the components described in this Owner's Report during the period 2-1-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. J. [Signature] Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/14/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-13849  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Main Steam

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3MSS		NEGT		Drawing Number			
*SG1A	Westinghouse	1776	13584	1106J72	1981	Replacement	Yes

7. Description of Work Replacement of Secondary Side Handhole bolts (24)

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X/  
Other / / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks Inspections performed - liquid penetrant

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CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Supv Date 7/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by ASB Inc of Hartford have inspected the components described in this Owner's Report during the period 3-28-88 to 4-22-88, and state that to the best of my knowledge and belief, the owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. J. [Signature] Commissions CT1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 7-22-88 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/7/87  
Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name  
P.O. Box 128, Waterford, CT 06385 M3-87-16645  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name  
P.O. Box 128, Waterford, CT  
Address

4. Identification of System Main Steam

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
MSS*		NEGT		Drawing Number			
SG1A	Westinghouse	1776	13584	1106372	1981	Repair	Yes

7. Description of Work Handholes 4A/5A had 1 bolt (each) psll requiring a helicoil repair.

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Threads galled during removal for sludge lancing.

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Supv Date 7/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/11/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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*[Signature]* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/8/87  
Name

P.O. Box 28, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-16266  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Main Steam System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, NA Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3MSS*		NEGT		Drawing Number			
SG10	Westinghouse	1777	155215	1106J72	1981	Repair	Yes

7. Description of Work Machining of the gasket sealing surface on S/C handhole covers 2D/3D

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X /  
Other / / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks Found during magnetic particle examination. Examinations performed were magnetic particle examination and in-service leak test. The weld was visually inspected.

CERTIFICATE OF COMPLIANCE

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

Signed *Tuly* Asst Eng, Supv Date 7/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/11/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R J Jones* Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-22 19 88



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

1. Owner Northeast Utilities Service Co. Date 3/9/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit III  
Name

P.O. Box 128, Waterford, CT 06385 M3-86-03675  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Main Steam

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, NA Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
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3MSS*							
CTV27D	Sulzer	5425	1	N/A	1981	Repair	Yes

7. Description of Work Machining of the seating surface.

8. Tests Conducted: Hydrostatic /\_/\_/ Pneumatic /\_/\_/ Nominal Operating Pressure /X/  
Other /\_/\_/ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks inspections performed - liquid penetrant and in-service leak test.

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng S-pv Date 4/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/11/88 to 4-12-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1115  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/9/88  
Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit III  
Name  
P.O. Box 128, Waterford, CT 06385 M3-86-03675  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name  
P.O. Box 128, Waterford, CT  
Address

4. Identification of System Main Steam

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, NA Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3MSS*							
CTV27D	Sulzer	5425	1	N/A	1981	Replacement	Yes

7. Description of Work Replacement of Control Block bolting

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X /  
Other / / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed *Tully* Asst Eng Supv Date 4/22, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/11/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/9/88  
 Name \_\_\_\_\_  
P.O. Box 128, Waterford, CT 06365 Sheet 1 of 2  
 Address \_\_\_\_\_

2. Plant Millstone Nuclear Power Station Unit 111  
 Name \_\_\_\_\_  
P.O. Box 128, Waterford, CT 06385 M3-87-04611  
 Address \_\_\_\_\_ Authorized Work Order Number \_\_\_\_\_

3. Work Performed by Millstone Station  
 Name \_\_\_\_\_  
P.O. Box 128, Waterford, CT  
 Address \_\_\_\_\_

4. Identification of System Main Steam

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3MSS*							
AOV31D	Fisher	8473869	6725	N/A	1983	Repair	Yes

7. Description of Work Weld buildup and machining of seat

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X /  
 Other / / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Examinations performed - liquid penetrant, visual, functional test at normal operating pressure and in-service leak test.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair conforms to the rules of the ASME Code, Section XI.

Signed [Signature] Asst Eng S-10 Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/11/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions CT1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/8/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 3  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 See Attached Sheet  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Main steam

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
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See Attached Sheet

7. Description of Work Replacement of valves as identified

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X /  
Other / / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

Attachment

SAFETIES REMOVED

<u>Designation</u>	<u>Mfr.</u>	<u>Serial #</u>	<u>Dwg #</u>	<u>AWO Number</u>
MSS*RV25?	Dresser	B500304	3707RAX	M3-87-16950
MSS*RV26B	Dresser	B500308	3707RAX	M3-87-16947
MSS*RV24B	Dresser	B500300	3707RAX	M3-87-16946
MSS*RV24A	Dresser	B500299**▲	3707RAX	M3-87-16944
MSS*RV23A	Dresser	B500295**▼	3707RAX	M3-87-16943

SAFETIES REINSTALLED

MSS*RV25B	Dresser	BR06749	3NC1013	M3-87-16950
MSS*RV26B	Dresser	BR06741	3NC1013	M3-87-16947
MSS*RV24B	Dresser	BR06746	3NC1013	M3-87-16946
MSS*RV24A	Dresser	BR00294	3707RAX	M3-87-16944
MSS*RV23A	Dresser	B500299**	3707RAX	M3-87-16943

\*\*Upon removal of valves B500299 and B500295, they were sent to Crosby; repaired (PO 910932) and returned. B500295 was stored as a spare. B500299 has been reinstalled into MSS\*RV23A.



FORM NIS-2 (Back)

9. Remarks In-Service Leak Test

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Supv Date 7/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CI and employed by NSR ICI of HARTFORD have inspected the components described in this Owner's Report during the period 3-11-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Date 1/25/88  
Name  
P.O. Box 128, Waterford, CT Sheet 1 of 3  
Address
2. Plant Millstone Nuclear Power Station Unit III  
Name  
P.O. Box 128, Waterford, CT M3-87-00827/M3-87-00868/M3-87-0869/M3-87-01206  
Address Authorized Work Order Number
3. Work Performed by C. N. Flagg & Co. M3-87-02417/M3-87-02675/M3-87-02001/M3-87-03046  
Name  
Meriden, CT M3-87-02696  
Address
4. Identification of System Nitrogen isolation Valves to Main Steam and Steam Gen. blowdown
5. (a) Applicable Construction Code ASME III 1974 Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
BDL*V951	Dresser	H721 ABB	N/A	3NC029	1982	Replacement	Yes
BDG*V952	Dresser	H723 ABB	N/A	3NC029	1982	Replacement	Yes
BDG*V953	Dresser	H724 ABB	N/A	3NC029	1982	Replacement	Yes
BDG*V954	Dresser	H736 ABB	N/A	3NC029	1982	Replacement	Yes
BDG*V955	Dresser	H743 ABB	N/A	3NC029	1982	Replacement	Yes
BDG*V956	Dresser	H749 ABB	N/A	3NC029	1982	Replacement	Yes
BDG*V957	Dresser	H766 ABB	N/A	3NC029	1982	Replacement	Yes
BDG*V958	Dresser	H767 ABB	N/A	3NC029	1982	Replacement	Yes

Description of Work PDCR MP3-86-043 and E&DCR N-ME-03552, title "Main Steam and Steam Generator Blowdown  
System Nitrogen Isolation Valves Removal/Reorientation

8. Tests Conducted: Hydrostatic /    / Pneumatic /    / Nominal Operating Pressure / X /  
Other /    / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Removed Valves MSS\*V075, MSS\*V076, MSS\*V085, MSS\*V086, MSS\*V099, MSS\*V100, MSS\*V109, MSS\*V110  
All existing lines were capped. Valves Reorientation of BDC\*V951/952/953/954/955/956/957/958 with the  
installation of identical valves with flow opposite to those removed.

CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Supt Date 7/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/20/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/14/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-15294  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Auxiliary Feedwater

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board		Year Built	Repaired, Replaced, or Replacement	ASME Code
			No.	Other Identification			Stamped (Yes Or No)
3FWA*							
HV31C	Target Rock	3	N/A	1173140	1981	Removed	Yes
HV31C	Target Rock	13	N/A	1173140	1981	Replaced	Yes

7. Description of Work Replacement of the valve

8. Tests Conducted: Hydrostatic /X/ Pneumatic / / Nominal Operating Pressure / /  
Other / / Pressure 1850 psi Test Temp.  / / °F

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

FORM NIS-2 (Back)

9. Remarks Inspections performed - liquid penetrant, visual and hydro

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CERTIFICATE OF COMPLIANCE

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

Signed Tully - ASst Eng Supr Date 4/20, 19 88  
 Owner of ~~Owner's~~ Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by NBC ICI of Hartford have inspected the components described in this Owner's Report during the period 2-1-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. J. Jim Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Enforcements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/14/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-88-00934  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Safety Injection Accumulator Tank Nitrogen

5. (a) Applicable Construction Code ASME 111 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board		Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
			No.	Other Identification			
351L*			Drawing Number				
SV8875B	Target Rock	24	244	79AB-004	1980	Removed	Yes
SV8875B	Target Rock	116	692	79AB-004	1986	Replacement	Yes

7. Description of Work Valve Replacement

8. Tests Conducted: Hydrostatic /\_/\_/ Pneumatic /\_/\_/ Nominal Operating Pressure /X/  
Other /\_/\_/ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks Inspections performed - liquid penetrant and visual inspection.  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

Signed Tuley Ast Eng Supt Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by HSG 202 of Norfolk have inspected the components described in this Owner's Report during the period 3-1-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R J [Signature] Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88



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

1. Owner Northeast Utilities Service Co. Date 9/12/87  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit III  
Name

P.O. Box 128, Waterford, CT 06385 M3-86-18498  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System RHS (Sliding Support Block to Residual Heat Exchanger Lug)

(a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N242-1, N71-9 Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
Sliding Block on							
3RHS*E1A	ADROIT	N/A	N/A	N/A	1987	Replacement	Yes
Fabricators							

7. Description of Work Remove sliding block, replace with new block, reinstall with new cap screws

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure / /  
Other /X / Visual Inspection Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed *Tuly* Act Eng Supv Date 7/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/16/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R J Dora* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 7/20 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/14/88  
Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name  
P.O. Box 128, Waterford, CT 06385 M3-88-00887  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name  
P.O. Box 128, Waterford, CT  
Address

4. Identification of System Containment Recirculation

5. (a) Applicable Construction Code ASME III 1977 Edition, S79 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board		Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
			No.	Other Identification			
3RSS*					Drawing Number		
MOV-38A	Pacific	0593-3	N/A	81-691	1983	Repair	Yes

7. Description of Work Machining of bonnet seating surface

8. Tests Conducted: Hydrostatic /\_/\_/ Pneumatic /\_/\_/ Nominal Operating Pressure /X\_/\_/  
 Other /\_/\_/ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Inspections performed - liquid penetrant and visual inspection.

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CERTIFICATE OF COMPLIANCE

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

Signed *Tully* Asst Eng Supv Date 7/20, 19 85  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by HST Inc of Hartford have inspected the components described in this Owner's Report during the period 7-1-88 to 7-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R. J. ...* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 7-22 19 88

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

1. Owner Northeast Utilities Service Company Date 3/25/88  
Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address
2. Plant Millstone Nuclear Power Station Unit 111  
Name  
P.O. Box 128, Waterford, CT 06385 M3-87-03766  
Address Authorized Work Order Number
3. Work Performed by Millstone Station  
Name  
P.O. Box 128, Waterford, CT  
Address
4. Identification of System Main Steam
5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
MSS*				Drawing Number			
SG1D	Westinghouse	NEGT 1777	15215	1106J72	1981	Repair	Yes

7. Description of Work Repair of Steam Cuts on Handhole 2D and 3D
8. Tests Conducted: Hydrostatic // Pneumatic // Nominal Operating Pressure /X/  
Other // Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

Remarks None

CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Supt Date 7/26, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2-1-88 to 7-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R J [Signature] Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/25/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-00955/00956/00957  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Main Steam System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National		Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
			Board No.	Other Identification			
			Drawing Number				
27A	Sulzer	5425	1	103-047-342	1981	Repair	Yes
27B	Sulzer	5431	2	103-047-342	1981	Repair*	Yes
27C	Sulzer	5437	3	103-047-342	1981	Repair	Yes

\*Replacement of Bolt Broken During Assembly

7. Description of Work Repair of steam cuts on block valve seating surface

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X /  
Other / / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks Inspections - In-service leak test, liquid penetrant and visual inspection of machined surfaced.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Supv Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by NSB ICI of Hartford have inspected the components described in this Owner's Report during the period 2-1-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R J [Signature] Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88



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

1. Owner Northeast Utilities Service Company Date 3/28/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-03552  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Steam Generator Blowdown Sample

5. (a) Applicable Construction Code ASME 111 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3SSR*CTV				Drawing Number			
198	Target Rock	9	N/A	81V-004	1981	Removed	Yes
198	Target Rock	19	N/A	81V-004	1984	Replaced	Yes

7. Description of Work Replacement of the valve

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X/  
Other / / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks Functional Testing - LLRT, Stroke-Time Testing on ISLT

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CERTIFICATE OF COMPLIANCE

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

Signed *Duly* *Asst Eng Supv* Date *7/20*, 19 *88*  
 Owner or ~~Owner's~~ Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of *CT* and employed by *NBC 101* of *Hartford* have inspected the components described in this Owner's Report during the period *2-1-88* to *4-22-88*, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R. J. Jones* Commissions *CT 1119*  
 Inspector's Signature National Board, State, Province, and Endorsements

Date *4-22-88* 19

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

1. Owner Northeast Utilities Service Co. Date 3/25/88  
 Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
 Address

2. Plant Millstone Nuclear Power Station Unit 111  
 Name  
P.O. Box 128, Waterford, CT 06385 M3-87-03553  
 Address Authorized Work Order Number

3. Work Performed by Millstone Station  
 Name  
P.O. Box 128, Waterford, CT  
 Address

4. Identification of System Steam Generator Blowdown Sampling System

5. (a) Applicable Construction Code ASME III 1977 Edition, S79 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3SSR#CTV				Drawing Number			
19C	Target Rock	10	N/A	81V-004	1984	Removed	Yes
19C	Target Rock	20	N/A	81V-004	1984	Replaced	Yes

7. Description of Work Replacement of the Valve

8. Tests Conducted: Hydrostatic // Pneumatic // Nominal Operating Pressure /X/  
 Other // Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks Functional testing included stroke-time testing, local leak rate testing and in-service leak rate testing.

CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Supt Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by NSB I of Hartford have inspected the components described in this Owner's Report during the period 2-1-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-27-88 19 88

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

1. Owner Northeast Utilities Service Co. Date 4/11/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-08835  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Feedwater

5. (a) Applicable Construction Code ASME III 1977 Edition, S79 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3FWS-V968	Velan	8401068N3	N/A	PI-16189-N2	1984	Removed	Yes
3FWS-V968	Dresser	59800843	N/A	H815AAY	N/A	Replacement	Yes

7. Description of Work Replacement of the 3/4 inch valve

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X /  
Other /X / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
LP Visual

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

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Supv Date 7/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by N50 SCS of HARTFORD have inspected the components described in this Owner's Report during the period 2-1-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R J [Signature] Commissions CT1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 4/11/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-11534  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Main Steam

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3N55-CTV-270	Sulzer	5443	4	0-103.047.342	1981	Replacement	Yes

7. Description of Work Replacement of the Disc Holdown Screws

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

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

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Svr Date 4/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by MSB SAI of Hartford have inspected the components described in this Owner's Report during the period 2-1-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 1988



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

1. Owner Northeast Utilities Service Co. Date 3/9/88  
 Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
 Address

2. Plant Millstone Nuclear Power Station Unit 111  
 Name  
P.O. Box 128, Waterford, CT 06385 M3-87-04751  
 Address Authorized Work Order Number

3. Work Performed by Millstone Station  
 Name  
P.O. Box 128, Waterford, CT  
 Address

4. Identification of System Charging Pump Cooling Vent

5. (a) Applicable Construction Code ASME III 1971 Edition, 573 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3CCE*							
V976	Dresser	H471AAW	N/A	3NC029	1981	Removed	Yes
V976	Dresser	H788AAX	N/A	<del>3NC029</del> 3NC029 4/11/88	1981	Replaced	Yes

7. Description of Work Valve Replaced

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure /X /  
 Other / / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks Inspection performed - Liquid penetrant

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct. Replacement conforms to the rules of the ASME Code, Section XI. Repair or replacement

Signed *[Signature]* Asst Eng Supv Date 7/21, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/11/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4 22 19 88

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

1. Owner Northeast Utilities Date 2/12/88  
Name

P.O. Box 128, Waterford, CT Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT M3-85-34422/M3-85-40113  
Address Authorized Work Order Number

85  
87  
M 4/21/88

3. Work Performed by C. N. Flagg & Co  
Name

Meriden, CT  
Address

4. Identification of System CCP-H

5. (a) Applicable Construction Code ASME III 1973 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980, W61

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
CCP*V18	S&W	CCP-4	N/A	N/A	1985	Repaired	Yes

7. Description of Work CCP\*V18 was modified by adding an external level ARM

8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /X  
Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Valve was repaired and passed LLRT by AWO-M3-<sup>85</sup>87-40113 M 4/21/88

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] Asst Eng Supv Date 4/21, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB IGI of Hartford have inspected the components described in this Owner's Report during the period 2/24/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI

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

[Signature] Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/14/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-88-00506  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 28, Waterford, CT  
Address

4. Identification of System Component Cooling

5. (a) Applicable Construction Code ASME III 1974 Edition, S74 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
							(Yes Or No)
3CCP*		D-0055		Dw			
V05	Pratt	3-21	N/A	C-3547	1977	Replacement	Yes
V06	Pratt	3-19	N/A	C-3547	1977	Replacement	Yes

7. Description of Work Swap V5 with V6

8. Tests Conducted: Hydrostatic /\_/\_/ Pneumatic /\_/\_/ Nominal Operating Pressure /X\_/\_/  
Other: /\_/\_/ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Supv Date 7/21, 19 88  
 Owner of Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by HSC 162 of Hartford have inspected the components described in this Owner's Report during the period 3-1-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/8/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-17154  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Quench Spray System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
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3QSS\* Dwg

V029 Walworth A1915 1191 8-51319 1979 Replacement Yes

7. Description of Work Replacement of the Disc

8. Tests Conducted: Hydrostatic /\_/\_/ Pneumatic /\_/\_/ Nominal Operating Pressure 1.5  
Other /\_/\_/ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Inspections perform - Liquid Penetrant of valve disc, visual inspection and in-service leak test.

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CERTIFICATE OF COMPLIANCE

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

Signed *T. J. Ryan* Asst Eng Supt Date 7/21, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/14/88 to 3/14/88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R. J. Ryan* Commissions CT1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4/22 19 88



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

1. Owner Northeast Utilities Service Co. Date 3/7/88  
Name \_\_\_\_\_
- P.O. Box 128, Waterford, CT 063845 Sheet 1 of 2  
Address \_\_\_\_\_
2. Plant Millstone Nuclear Power Station Unit 111  
Name \_\_\_\_\_
- P.O. Box 128, Waterford, CT 06385 M3-87-14358 / M3-87-16877  
Address \_\_\_\_\_ Authorized Work Order Number \_\_\_\_\_
3. Work Performed by Millstone Station  
Name \_\_\_\_\_
- P.O. Box 128, Waterford, CT  
Address \_\_\_\_\_
4. Identification of System Diesel Generator Fuel Line
5. (a) Applicable Construction Code ASME 111 1971 Edition, S73 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
							Drawing Number
HCCF 1B/2B	**	28	28	11869800	1976	Replacement	Yes
3EGF*001-60-3	*	85434/002	N/A	85434	N/A	Replacement	Yes

\*Metsl Bellows

\*\*Colt/Fairbanks Morse

7. Description of Work Replacement required to eliminate chaffing of piping

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure X  
Other / / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks Flexible hoses were installed in accordance with PDCR 3-86-135 to eliminate vibrations being  
transmitted to lower parts of the fuel oil return lines. The vibration on 3EGF#HOSE 1B resulted in a failure  
of this hose. The hose was replaced with hard piping.

CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Insp Date 7/21, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by NIS-202 of Hartford have inspected the components described in this Owner's Report during the period 3-14-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT1117  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 10/23/87  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-10812  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Emergency Diesel Generator

5. (a) Applicable Construction Code ASME 111 1977 Edition, W78 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1982, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
Flex Hose	*	386-240-1		85434-01	N/A	N/A	N/A
Flex Hose	*	386-240-2		85434-02	N/A	N/A	N/A
Flex Hose	*	386-240-3		85434-03	N/A	N/A	N/A
Flex Hose	*	386-240-4		85434-04	N/A	N/A	N/A

\*Metal Bellows

7. Description of Work Hydro 4 Flex hoses to 53 psig for 30 min.

8. Tests Conducted: Hydrostatic /X/ Pneumatic / / Nominal Operating Pressure / /  
Other / / Pressure 53 psi Test Temp.  / / °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Metal-Bellows Corp. - Flex hose numbers 3E6F\*Hose 1A/1B, 2A/B

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CERTIFICATE OF COMPLIANCE

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

Signed *Tully* *Asst Eng Supv* Date *7/21*, 19 *88*  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 9/28/87 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*RJG* Commissions *CT 1119*  
 Inspector's Signature National Board, State, Province, and Endorsements

Date *4-22* 19*88*

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

1. Owner Northeast Utilities Service Co. Date 3/9/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit III  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-16491  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Service Water

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3SWP-							
030-02-3	S&W	CI SWP-18	N/A	SWP-01	N/A	Replacement	Yes

7. Description of Work Replacement of a 3/4 inch capped nipple

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure / /  
Other /X/ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Liquid penetrant examination performed on the welding surface and completed weld

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng S-pv Date 7/21, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/14/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/7/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-16189  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Service Water

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board		Year Built	Repaired, Replaced, or Replacement	ASME Code
			No.	Other Identification			Stamped (Yes Or No)
TEE*	Southwest	3SWP-18-2-7-3	4964	3SWP-18	N/A	Repair	No

7. Description of Work Excavate the corroded area, weld buildup the base material

8. Tests Conducted: Hydrostatic /X/ Pneumatic / / Nominal Operating Pressure / /  
Other / / Pressure 110 psi Test Temp.          °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks \*TEE contains lines 3SWP-30-2-3 and 3SWP-30-7-3. Hydro performed under AWO #M3-87-16354

CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Supv Date 4/21, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/14/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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*[Signature]* Commissions CT1117  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88



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

1. Owner Northeast Utilities Date 1/23/87  
Name

P.O. Box 128, Waterford, CT Sheet 1 of 3  
Address

2. Plant Millstone Nuclear Power Company Unit 111  
Name

P.O. Box 128, Waterford, CT M3-87-03497, M3-87-03272  
Address Authorized Work Order Number

3. Work Performed by C. N. Flagg & Co. Authorized Work Orders: M3-87-03870, M3-87-03872  
Name

Meriden, CT M3-S6-18294, M3-87-03610, M3-87-83219, M3-87-03220  
Address

4. Identification of System Service Water

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Hydro Pressures	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3SWP-150-61-3	45° Elbow - Guyon Alloys	125	N/A	CP319011	N/A	Replacement	Yes
3SWP-150-61-3	Fittings - Guyon Alloys Pipe - Southwest	125	N/A	CP319011	N/A	Replacement	Yes
3SWP-150-072-3	Fittings - Guyon Alloys Pipe - Southwest	150	N/A	CP319008	N/A	Replacement	Yes
P-018-75-3	Southwest	<del>150</del> 110	N/A	3SWP029 S/N 29-5-4-3	N/A	Repair	Yes

*110 m 4/21/87*

Identification of Components Repaired or Replaced and Replacement Components (Cont'd)

Name of Component	Name of Manufacturer	Hydro Pressure	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3SWP-150-71-3	Piping - Southwest	150	N/A	CP 319010	N/A	Replacements	Yes
	Fittings - Cuyon Alloy						
3SWP-150-61-3	Piping South-west	125	N/A	CP 319011	N/A	Replacements	Yes
	Fittings - Cuyon Alloy						

7. Description of Work Replacement of pipe and fittings

8. Tests Conducted: Hydrostatic /X/ Pneumatic /\_\_/ Nominal Operating Pressure /\_\_/  
 Other /\_\_/ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Supv Date 4/21, 19 88  
 Owner of ~~Owner's~~ Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/24/88 to 4 22 88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4 22 19 88

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

1. Owner Northeast Utilities Date 3/18/88  
Name

P.O. Box 128, Waterford, CT Sheet 1 of 3  
Address

2. Plant Millstone Nuclear Power Station Unit III  
Name

P.O. Box 128, Waterford, CT See Attached Sheet  
Address Authorized Work Order Number

3. Work Performed by C. N. Flagg & Co.  
Name

Meriden, CT  
Address

4. Identification of System Service Water Hanger (CP 319748-H003)

5. (a) Applicable Construction Code ANSI B31.1 1973 Edition, Sum. 73 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
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See Attached Sheet

7. Description of Work Removal/Modification of CP-319748-H003) for PDCR 3-86-153

8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure X

Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Number 3-86-153, "Service Water Pump Discharge Valve Replacement."

This PDCR replaced existing service water pump discharge butterfly valves with aluminum-bronze butterfly valves. To facilitate removal of the valve, modifications to pipe support (CP 319748-H003) must be performed.

AWOs

E&DCR

M3-87-02542	} interferences	N-CS-03790
M3-87-02250		N-ME-03235
M3-86-18320-C		
M3-86-18318-A		
M3-86-10668-D		
M3-86-10664-B		
PA 86-108		

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed *Tulay* Asst Eng Supv Date 4/21, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/12/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R J Z...* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Date 2/12/88  
Name

P.O. Box 128, Waterford, CT Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT M3-87-16089  
Address Authorized Work Order Number

3. Work Performed by C. N. Flagg & Co.  
Name

Meriden, CT  
Address

4. Identification of System SWP

5. (a) Applicable Construction Code ASME III 1971 Edition, W72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
SWP-30-							
2-3	Southwest	N/A	N/A	N/A	N/A	Repair	Yes
7-3	Southwest	N/A	N/A	N/A	N/A	Repair	Yes

7. Description of Work Metal excavation of erosion area, shielded metal arc process buildup

8. Tests Conducted: Hydrostatic /X/ Pneumatic / / Nominal Operating Pressure / /  
Other / / Pressure 110 psi Test Temp.  / / °F

E: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Hydro performed under AWO-M3-87-16354

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CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Supv Date 4/21, 1988  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/7/88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RJ Z... Commissions CT1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 1988



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

1. Owner Northeast Utilities Service Co. Date 3/25/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-04138  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Service Water

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3SWP*							
V705	*	N/A	N/A	N/A	1982	Replacement	No.

\*Studs = Ovako Oyab

\*Nuts = Job SMIT

7. Description of Work Replacement of Flange Studs and Nuts due to corrosion

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this \_\_\_\_\_ conforms to the  
 Repair or replacement  
 rules of the ASME Code, Section XI.

Signed *Truly* *Asst Eng Supv* Date *7/21*, 19 *88*  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of *CT* and employed by *HS&I* of \_\_\_\_\_ have inspected the components described in this Owner's Report during the period *3-1-88* to *4-22-88*, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R. B. Jones* Commissions *CT 1119*  
 Inspector's Signature National Board, State, Province, and Endorsements

Date *4-22* 19 *88*

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

1. Owner Northeast Utilities Service Co. Date 3/28/88  
 Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
 Address

2. Plant Millstone Nuclear Power Station Unit III  
 Name  
P.O. Box 128, Waterford, CT 06385 M3-87-00965/00967/00968  
 Address Authorized Work Order Number

3. Work Performed by Millstone Station  
 Name  
P.O. Box 128, Waterford, CT  
 Address

4. Identification of System Component Cooling Water

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3CCP							
E1A	Yuba	73-N-005-1A	2632	N/A	1977	Replacement	Yes
E1B	Yuba	73-N-005-1B	2632	N/A	1977	Replacement	Yes
E1C	Yuba	73-N-005-1C	2633	N/A	1977	Replacement	Yes

7. Description of Work Replacement of Cover Plate Bolts with Studs and Nuts

8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /X/  
 Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

E: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed Tuly Asst Eng Supt Date 7/21, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by HSQ I & S of NAAT&nd have inspected the components described in this Owner's Report during the period 3-1-88 to 4-22-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R J [Signature] Commissions CT1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88

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

1. Owner Northeast Utilities Service Co. Date 4/11/88  
Name

P.O. Box 128, Waterford, CT Sheet 1 of 2  
Address

2. Plant Millstone Station Unit 3  
Name

P.O. Box 128, Waterford, CT M3-87-18405  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Component Cooling Water

5. (a) Applicable Construction Code ASME III 1971 Edition, Sum. 73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3CCP-002-526-3	US Steel	L82899	N/A	12179-CP-372024	1985	Replacement	Yes
3CCP-150-91-3	Permutit	3306	N/A	12179-CP-372074	1985	Replacement	Yes
CP-372074-H05	Stone & Webster	N/A	N/A	12179-CP-372074	1985	Replacement	Yes
CP-372074-H001	Stone & Webster	N/A	N/A	12179-CP-372074	1985	Replacement	Yes

7. Description of Work Removal and reinstallation of piping and supports

8. Tests Conducted: Hydrostatic /X/ Pneumatic / / Nominal Operating Pressure / /  
Other /X/ LP Pressure 215 psi Test Temp. N/A °F

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

FORM NIS-2 (Back)

9. Remarks Piping and supports were removed to facilitate reactor coolant pump removal.

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Supv Date 7/21, 19 88  
 Owner or ~~Owner's~~ Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period April 12, 1988 to April 12, 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT1117  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4 22 1988

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

1. Owner Northeast Utilities Service Co. Date 4/11/88  
Name

P.O. Box 128, Waterford, CT Sheet 1 of 2  
Address

2. Plant Millstone Station Unit 111  
Name

P.O. Box 128, Waterford, CT M3-87-18021  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Component Cooling Water

5. (a) Applicable Construction Code ASME III 1971 Edition, S71 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3CCP-002-527-3	US Steel	L20273	N/A	12179-CP-37205	1985	Replacement	Yes

7. Description of Work Piping removed and reinstalled to facilitate RCP removals

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Visual/LP Pressure 215 psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Supv Date 7/21, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period January 1, 1988 to April 12, 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-22 19 88



ATTACHMENT 3

ATTACHMENT 3Repair/Replacement of Supports

- 1) Replacement of snubbers during March outage.
- 2) Replacement of snubbers during November outage.
- 3) Elimination of supports by PDCR MP3-87-050.
- 4) Snubbers replaced by struts by PDCR MP3-87-050.
- 5) Functional testing of large bore snubber PDCR MP3-87-051.
- 6) Elimination of supports by PDCR MP3-87-052.
- 7) Snubbers replaced by struts by PDCR MP3-87-052.
- 8) Replacement of large bore snubber.
- 9) Modifications to Reactor Coolant Supports.
- 10) Repair of MSS-4-PSSP-485 end support.
- 11) Modifications to main steam supports.
- 12) Replacement of bolt on SIL-1-PSSP-988.
- 13) Modification of Service Water Supports.
- 14) Installation of Seismic Supports (Diesel Fuel Oil).
- 15) Installation of new supports (Diesel Lube Oil).
- 16) Replacement of nut on component cooling water.
- 17) Modification to Service Water 3SWP-6-PSR-214/226/227.
- 18) Replacement of 3SWP-PSA-033.
- 19) Modification CRDM Lateral Support Strut Pin.

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

1. Owner Northeast Utilities Service Co. Date 9/12/87  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 3  
Address

2. Plant Millstone Nuclear Power Station Unit III  
Name

P.O. Box 128, Waterford, CT 06385 See Below  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System See Below

5. (a) Applicable Construction Code ANSI B31.1 1971 Edition, 73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Installed Serial No.	Removed Serial No.	Other Identification (AWO No.)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
CHS-1-PSSP-1058	*	7802	25108	MP-87-01459	1985	Replacement	Yes
CHS-1-PSSP-721	*	5971	34078	MP-87-01460	1985	Replacement	Yes
RCS-1-PSSP-325	*	6556	34715	MP-87-01457	1985	Replacement	Yes
RCS-1-PSSP-434	*	22238	23131	MP-87-01456	1985	Replacement	Yes
SIL-1-PSSP-436	*	2906	2888	MP-87-01430	1985	Replacement	Yes
RCS-1-PSSP-435	*	7113	34806	MP-87-01461	1985	Replacement	Yes
SIL-1-PSSP-438	*	349	9126	MP-87-01397	1985	Replacement	Yes
RCS-1-PSSP-914	*	6982	35016	MP-87-01396	1985	Replacement	Yes
SIL-1-PSSP-469	*	5944	34152	MP-87-01395	1985	Replacement	Yes

\*ITT Grinnell

## Identification of Components Repaired or Replaced and Replacement Components (Cont'd)

Name of Component	Name of Manufacturer	Installed Serial No.	Removed Serial No.	Other Identification (AWO No.)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
RCS-1-PSSP-027	*	6705	29041	MP-87-01423	1985	Replacement	Yes
RCS-1-PSSP-470	*	6740	34166	MP-87-01400	1985	Replacement	Yes
RCS-1-PSSP-0111	*	11367	15871	MP-87-01392	1985	Replacement	Yes
RCS-1-PSSP-1519	*	9036	23817	MP-87-01424	1985	Replacement	Yes
RCS-1-PSSP-236	*	6394	34808	MP-87-01425	1985	Replacement	Yes
RCS-1-PSSP-239	*	35501	34815	MP-87-01426	1985	Replacement	Yes
RCS-1-PSSP-150	*	2874	2806	MP-87-01427	1985	Replacement	Yes
SIL-1-PSSP-472	*	309	26279	MP-87-10429	1985	Replacement	Yes
SIL-1-PSSP-414	*	11374	7778	MP-87-01428	1985	Replacement	Yes
SIL-1-PSSP-112	*	7271	18891	MP-87-01398	1985	Replacement	Yes

\*ITT Grinnell

7. Description of Work Snubber Replacement

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure / /  
 Other /X / Visual/Functional Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks All snubbers were replaced as result of boron contamination.

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Sup Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/8/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Service Co. Date 12/29/87  
 Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 3  
 Address
2. Plant Millstone Nuclear Power Station Unit III  
 Name  
P.O. Box 128, Waterford, CT 06385 See Below  
 Address Authorized Work Order Number
3. Work Performed by Millstone Station  
 Name  
P.O. Box 128, Waterford, CT  
 Address
4. Identification of System See Below
5. (a) Applicable Construction Code ANSI B31.1 1971 Edition, 73 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Installed Serial No.	Removed Serial No.	Other Identification (AWO No.)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
RCS-1-PSSP-0401	*	11876	4820	MP-88-00138	1985	Replacement	Yes
RCS-1PSSP-0400	*	11848	4394	MP-88-00137	1985	Replacement	Yes
RHS-1-PSSP-0405	*	4394	4409	MP-88-00141	1985	Replacement	Yes
RCS-1-PSSP-0975	*	7156	35526	MP-87-05845	1985	Replacement	Yes
RHS-1-PSSP-0420	*	13751	5689	MP-87-06034	1985	Replacement	Yes
RCS-1-PSSP-0150	*	9303	2874	MP-87-05850	1985	Replacement	Yes
RCS-1-PSSP-1020	*	22241	23809	MP-87-05849	1985	Replacement	Yes
CHS-1-PSSP-0650	*	7219	20713	MP-87-05848	1985	Replacement	Yes
-1-PSSP-0649	*	9021	16540	MP-87-05851	1985	Replacement	Yes
CCP-2-PSSP-0414	*	16048	3181	MP-87-04965	1985	Replacement	Yes

Identification of Components Repaired or Replaced and Replacement Components (Cont'd)

Name of Component	Name of Manufacturer	Installed Serial No.	Removed Serial No.	Other Identification (AWO No.)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
RCS-1-PSSF-1022	*	6741	29087	MP-87-05012	1985	Replacement	Yes
SIH-1-PSSP-1029	*	11807	18713	MP-87-05847	1985	Replacement	Yes
SIL-1-PSSP-0443	*	9251	2892	MP-87-05031	1985	Replacement	Yes
RHS-4-PSSP-0406	*	2622	9624	MP-87-05024	1985	Replacement	Yes
RCS-1-PSSP-1114	*	6694	6340	MP-87-05017	1985	Replacement	Yes
RHS-1-PSSP-0414	*	11115	8797	MP-87-06187	1985	Replacement	Yes
RCS-1-PSSP-0648	*	7232	22211	MP-87-05846	1985	Replacement	Yes
SWP-2-PSSP-0410	*	13721	3189	MP-87-05613	1985	Replacement	Yes
CP-394052-H001	*	7712	6737	MP-87-4962	1985	Replacement	Yes
302762-H001	*	6393	10151	MP-87-04959	1985	Replacement	Yes
RCS-1-PSSP-0134	*	20495	22541	MP-87-04993	1985	Replacement	Yes
RCS-1-PSSP-0064	*	22481	23495	MP-87-4991	1985	Replacement	Yes
RCS-1-PSSP-0062	*	22483	23494	MP-87-4990	1985	Replacement	Yes
MSS-4-PSSP-0489	*	19547	23850	MP-87-5607	1985	Replacement	Yes
MSS-4-PSSP-490	*	20520	23853	MP-87-5608	1985	Replacement	Yes
MSS-4-PSSP-0486	*	8980	19458	MP-87-04983	1985	Replacement	Yes
MSS-4-PSSP-0492	*	22495	19418	MP-87-5890	1985	Replacement	Yes
DTM-4-PSSP-0027	*	20990	23505	MP-87-5606	1985	Replacement	Yes
DTM-4-PSS-0030	*	8972	23504	MP-87-5966	1985	Replacement	Yes
RCS-1-PSSP-0065	*	22473	23493	MP-87-4992	1985	Replacement	Yes

\*ITT Grinnell

7. Description of Work Snubber Replacement

Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure / /  
 Other /X / Visual/Functional Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks None

CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Supv Date 4/20, 19 88  
Owner or Owner's Designee, title

CERTIFICATE OF INSERVICE INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 1/29/88 to 4-31-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88



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

1. Owner Northeast Utilities Date 2/4/88  
Name

P.O. Box 128, Waterford, CT Sheet 1 of 3  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT See attached sheet  
Address Authorized Work Order Number

3. Work Performed by C. N. Flagg & Co.  
Name

Address

4. Identification of System RCS

5. (a) Applicable Construction Code ANSI B31.1 1971 Edition, 73 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
See Attached							

7. Description of Work Elimination of snubbers/components IAW PDCR 3-87-50

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

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

Attachment

PDCR Number 3-87-050, "Snubber Reduction"

The following components have been eliminated:

<u>Designation</u>	<u>AWO Number</u>	<u>S/G Cube</u>	<u>Designation</u>	<u>AWO Number</u>	<u>S/G Cube</u>
RCS-1-PSSP-297	MP-87-11900	B	RCS-1-PSSP-321	MP-87-11913	D
RCS-1-PSSP-298	MP-87-11900	B	RCS-1-PSSP-322	MP-87-11913	D
RCS-1-PSSP-300	MP-87-11900	B	RCS-1-PSSP-324	MP-87-11913	D
RCS-1-PSSP-301	MP-87-11900	B	RCS-1-PSSP-325	MP-87-11913	D
RCS-1-PSSP-1232	MP-87-11900	B	RCS-1-PSSP-1236	MP-87-11913	D
RCS-1-PSSP-299	MP-87-11900	B	RCS-1-PSSH-323	MP-87-11913	D
RCS-1-PSST-308	MP-87-11900	B	RCS-1-PSSH-332	MP-87-11913	D
RCS-1-PSSP-285	MP-87-11891	A	RCS-1-PSSP-309	MP-87-11908	C
RCS-1-PSSP-286	MP-87-11891	A	RCS-1-PSSP-310	MP-87-11908	C
RCS-1-PSSP-288	MP-87-11891	A	RCS-1-PSSP-312	MP-87-11908	C
RCS-1-PSSP-289	MP-87-11891	A	RCS-1-PSSP-313	MP-87-11908	C
RCS-1-PSSP-1230	MP-87-11891	A	RCS-1-PSSP-1234	MP-87-11908	C
RCS-1-PSSH-287	MP-87-11891	A	RCS-1-PSSH-311	MP-87-11908	C
RCS-1-PSST-296	MP-87-11891	A	RCS-1-PSST-320	MP-87-11908	C

The following have eliminated the L.C. Rating:

-1-PSST-305	MP-87-11900	B	RCS-1-PSST-329	MP-87-11913	D
-1-PSST-293	MP-87-11891	A	RCS-1-PSST-317	MP-87-1198	C

FORM NIS-2 (Back)

Remarks None

CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Sup Date 4/20, 19 88  
Owner or ~~Owner's~~ Designee, title

CERTIFICATE OF INSERVICE INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/16/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Date 2/4/88  
Name  
P.O. Box 128, Waterford, CT Sheet 1 of 3  
Address

2. Plant Millstone Nuclear Power Station Unit III  
Name  
P.O. Box 128, Waterford, CT See attached sheet  
Address Authorized Work Order Number

3. Work Performed by C. N. Flagg & Co.  
Name  
Meriden, CT  
Address

4. Identification of System RCS

5. (a) Applicable Construction Code ANSI B31.1 1971 Edition, 73 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
See Attached							

7. Description of Work Replacement of snubbers with struts IAW PDCR #3-87-50.

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

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

Attachment

PDCR Number 3-87-050, "Snubber Reduction"

The following snubbers have been replaced by struts:

<u>Snubber Designation</u>	<u>AWO Number</u>	<u>S/G Cube</u>	<u>New Designation</u>
RCS-1-PSSP-302	MP-87-11900	B	RCS-1-PSST-302
RCS-1-PSSP-304	MP-87-11900	B	RCS-1-PSST-304
RCS-1-PSSP-306	MP-87-11900	B	RCS-1-PSST-306
RCS-1-PSSP-326	MP-87-11913	D	RCS-1-PSST-326
RCS-1-PSSP-328	MP-87-11913	D	RCS-1-PSST-328
RCS-1-PSSP-330	MP-87-11913	D	RCS-1-PSST-330
RCS-1-PSSP-290	MP-87-11891	A	RCS-1-PSST-290
RCS-1-PSSP-292	MP-87-11891	A	RCS-1-PSST-292
RCS-1-PSSP-294	MP-87-11891	A	RCS-1-PSST-294
RCS-1-PSSP-314	MP-87-11908	C	RCS-1-PSST-314
RCS-1-PSSP-316	MP-87-11908	C	RCS-1-PSST-316
RCS-1-PSSP-318	MP-87-11908	C	RCS-1-PSST-318

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed *July* *Asst Eng Supv* Date *4/20*, 19 *88*  
 Owner of Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/16/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*RJ 3000* Commissions *CT 115*  
 Inspector's Signature National Board, State, Province, and Endorsements

Date *4-21* 19 *88*

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

1. Owner Northeast Utilities Service Co. Date 2/4/88  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 3  
Address

2. Plant Millstone Nuclear Power Station Unit III  
Name

P.O. Box 128, Waterford, CT 06385 See below  
Address Authorized Work Order Number

3. Work Performed by Millstone Station Authorized Work Order No(s). M3-87-14228/M3-87-  
Name

P.O. Box 128, Waterford, CT 16175/M3-87-14229/M3-87-14226/M3-87-14227/M3-87-  
Address 14223/M3-87-14224/M3-87-14221/M3-87-14210/M3-87-  
14199

4. Identification of System RCS

(a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification (AWO No.)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
RCS*SUP4-21	Paul Monroe	RCS*SUP4-21	N/A	PDCR M3-87-051	N/A	Modification	Yes
RCS*SUP4-34	Paul Monroe	RCS*SUP4-34	N/A	PDCR M3-87-051	N/A	Modification	Yes
PCS*SUP4-18	Paul Monroe	RCS*SUP4-18	N/A	PDCR M3-87-051	N/A	Modification	Yes
RCS*SUP4-8	Paul Monroe	RCS*SUP4-8	N/A	PDCR M3-87-051	N/A	Modification	Yes
RCS*SUP4-29	Paul Monroe	RCS*SUP4-29	N/A	PDCR M3-87-051	N/A	Modification	Yes
RCS*SUP4-35	Paul Monroe	RCS*SUP4-35	N/A	PDCR M3-87-051	N/A	Modification	Yes
RCS*SUP4-47	Paul Monroe	RCS*SUP4-47	N/A	PDCR M3-87-051	N/A	Modification	Yes
RCS*SUP4-23	Paul Monroe	RCS*SUP4-23	N/A	PDCR M3-87-051	N/A	Modification	Yes
RCS*SUP4-9	Paul Monroe	RCS*SUP4-9	N/A	PDCR M3-87-051	N/A	Modification	Yes

## Identification of Components Repaired or Replaced and Replacement Components (Cont'd)

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification (AWO No.)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
RCS*SUP4-33	Paul Monroe	RCS*SUP4-33	N/A	FDCR M3-87-051	N/A	Modification	Yes
RCS*SUP4-15	Paul Monroe	RCS*SUP4-15	N/A	PDCR M3-87-051	N/A	Modification	Yes
RCS*SUP4-7	Paul Monroe	RCS*SUP4-7	N/A	PDCR M3-87-051	N/A	Modification	Yes
RCS*SUP4-4	Paul Monroe	RCS*SUP4-4	N/A	PDCR M3-87-051	N/A	Modification	Yes

7. Description of Work PDCR M3-87-051, "Functional Test of the RCS Large Bore Snubbers."

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-2 (Back)

Remarks Installation of in-place test equipment and functional test of snubbers was performed.

CERTIFICATE OF COMPLIANCE

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

Signed *Tuly* *Asst Eng Sup* Date *4/20*, 19 *88*  
Owner or ~~Owner's~~ Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/16/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R J Zm* Commissions *CT 1119*  
Inspector's Signature National Board, State, Province, and Endorsements

Date *4-21* 19 *88*

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

1. Owner Northeast Utilities Date: 2/3/88  
Name

P.O. Box 128, Waterford, CT Sheet 1 of 3  
Address

2. Plant Milstone Nuclear Power Station Unit III  
Name

P.O. Box 128, Waterford, CT See Attached  
Address Authorized Work Order Number

3. Work Performed by C. N. Flagg & Co.  
Name

Meriden, CT  
Address

4. Identification of System See attached list

5. (a) Applicable Construction Code ANSI B31.1 1973 Edition, S73 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
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See Attached

7. Description of Work Components eliminated by PDCR M3-87-052.

8. Tests Conducted. Hydrostatic / Pneumatic / Nominal Operating Pressure /

Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

Attachment

PDCR MP3-87-052, "Snubber Reduction Using Zero Deflection Criteria."

The following components have been eliminated:

<u>Support Designation</u>	<u>AWO Number</u>	<u>Stress Cal.</u>	<u>Support Dwg. Number (25212-)</u>	<u>PLI Dwg. (25212-)</u>
CHS-2-PSSP-416-	M3-87-12484	X7410	22720 Sh. 74C-85	20271 Sh. 82, 83, 84
CHS-2-PSSP-417-	M3-87-12484	X7410	22720 Sh. 74C-85	20271 Sh. 82, 83, 84
CHS-2-PSSH-218-	M3-87-12484	X7410	22721 Sh. 74D-104	20271 Sh. 82, 84
CHS-2-PSSH-224-	M3-87-12484	X7410	22721 Sh. 74D-105	20271 Sh. 75, 77, 80
CHS-2-PSSH-225-	M3-87-12484	X7410	22721 Sh. 74D-106	20271 Sh. 75, 77, 80
CHS-2-PSSH-226-	M3-87-12484	X7410	22721 Sh. 74D-107	20271 Sh. 76, 79, 81
CHS-2-PSSH-231-	M3-87-12484	X7410	22721 Sh. 74D-109	20271 Sh. 84
CHS-2-PSSP-430-	M3-87-12525	X7411	22720 Sh. 74C-94	20271 Sh. 116, 117, 118
CHS-2-PSSP-431-	M3-87-12525	X7411	22720 Sh. 74C-94	20271 Sh. 116, 117, 118
CHS-2-PSSH-209-	M3-87-12525	X7411	22721 Sh. 74D-101	20083 Sh. 2, 4
CHS-2-PSSH-263-	M3-87-12525	X7411	22721 Sh. 74D-114	20273 Sh. 27
CHS-2-PSSH-285-	M3-87-12529	X7417	22721 Sh. 74D-123	20269 Sh. 58
CHS-2-PSSP-446-	M3-87-12534	X7418	22721 Sh. 74D-95	20274 Sh. 236, 237, 238
CHS-2-PSSP-447-	M3-87-12534	X7418	22721 Sh. 74D-95	20274 Sh. 236, 237, 238
CHS-2-PSSP-249-	M3-87-12534	X7418	22721 Sh. 74D-113	20271 Sh. 112, 113, 114
CHS-2-PSSH-288-	M3-87-12534	X7418	22721 Sh. 74D-124	20271 Sh. 93, 94, 95
CHS-2-PSSP-463-	M3-87-12542	X7401	22637 Sh. 74B-177	20272 Sh. 154
CHS-2-PSSP-464-	M3-87-12542	X7401	22637 Sh. 74B-178	20272 Sh. 154
CHS-2-PSSP-465-	M3-87-12542	X7401	22637 Sh. 74B-179	20272 Sh. 154
CHS-1-PSSH-520-	M3-87-12553	X7426	22617 Sh. 74A-65	20080 Sh. 59, 60
RCS-1-PSSP-942-	M3-87-12668	X10734	22727 Sh. 107T-35	20115 Sh. 41, 43
RCS-1-PSSP-944-	M3-87-12668	X10734	22727 Sh. 107T-35	20115 Sh. 41, 43
RCS-1-PSSP-950-	M3-87-12668	X10734	22727 Sh. 107T-45	20115 Sh. 41, 43
RCS-1-PSSP-952-	M3-87-12668	X10734	22727 Sh. 107T-45	20115 Sh. 41, 43
RCS-1-PSSP-953-	M3-87-12668	X10734	22727 Sh. 107T-45	20115 Sh. 41, 43
RCS-1-PSSP-956-	M3-87-12668	X10734	22727 Sh. 107T-49	20130 Sh. 5, 7
RCS-1-PSSP-960-	M3-87-12668	X10734	22727 Sh. 107T-53	20153 Sh. 7, 8
RCS-1-PSSP-961-	M3-87-12668	X10734	22727 Sh. 107T-54	20153 Sh. 7, 8
RCS-1-PSSP-1047-	M3-87-12668	X10734	22727 Sh. 107T-43	20115 Sh. 41, 43
RCS-1-PSSH-434+	M3-87-12668	X10734	22725 Sh. <del>107D-115</del>	20130 Sh. 5, 7
SFC-3-PSSP-080-	M3-87-12709	X7706	22853 Sh. 77C-7	20276 Sh. 22
SFC-3-PSSP-150-	M3-87-12709	X7707	22853 Sh. 77C-76	20277 Sh. 10
SFC-3-PSSP-153-	M3-87-12709	X7707	22853 Sh. 77C-77	20277 Sh. 10
SFC-3-PSSP-158-	M3-87-12709	X7707	22853 Sh. 77C-84	20277 Sh. 9
SFC-3-PSSP-161-	M3-87-12709	X7707	22853 Sh. 77C-87	20277 Sh. 9
CHS-1-PSSP-633-	M3-87-12666	X7427	22617 Sh. 74A-52	20080 Sh. 75
CHS-1-PSSH-541-	M3-87-12666	X7427	22626 Sh. 107D-78	20115 Sh. 53
SIL-1-PSSP-982-	M3-87-12712	X7431	22626 Sh. 107D-78	20155 Sh. 53
SIL-1-PSSP-985-	M3-87-12719	X10706	22626 Sh. 107D-78	20115 Sh. 48
SIL-1-PSSP-986-	M3-87-12719	X10706	22626 Sh. 107D-81	20115 Sh. 53
SIL-4-PSSP-1053-	M3-87-12719	X10706	22626 Sh. 107D-82	20115 Sh. 53
CHS-1-PSSH-440-	M3-87-12719	X10706	22626 Sh. 107D-78	20115 Sh. 48

2/24  
7/24/85

FORM NIS-2 (Back)

Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Sup Date 4/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HRB ISI of Hartford have inspected the components described in this Owner's Report during the period 2/16/88 to 4-2-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Date 2/1/88  
Name

P.O. Box 128, Waterford, CT Sheet 1 of 3  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT See attached sheet  
Address Authorized Work Order Number

3. Work Performed by C. N. Flagg & Co.  
Name

Meriden, CT  
Address

4. Identification of System See attached list

5. (a) Applicable Construction Code ANSI B31.1 1973 Edition, 573 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, 583

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board Nu.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
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See Attached

7. Description of Work Snubbers replaced by struts (PDCR M3-87-052)

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

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

SR MP-3-87-052 titled, "Snubber Reduction Using Zero Deflection Criteria."

The following snubbers have been replaced with strucs:

<u>Support Designation</u>	<u>AWO Number</u>	<u>Stress Cal No.</u>	<u>New Designation</u>	<u>Support Drawing Number</u>	<u>PLI Drawing Number</u>
CSH-2-PSSP-418-	M3-87-12484	X7410	3CHS-2-PSST-418	25212-22720 Sh. 74C-86	25212-20271 Sh. 75, 77, 80
CHS-2-PSSP-419-	M3-87-12484	X7410	3CHS-2-PSST-419	25212-22720 Sh. 74C-86	25212-20271 Sh. 75, 77, 80
CHS-2-PSSP-420-	M3-87-12484	X7410	3CHS-2-PSST-420	25212-22720 Sh. 74C-87	25212-20271 Sh. 30
CHS-2-PSSP-421-	M3-87-12484	X7410	3CHS-2-PSST-421	25212-22720 Sh. 74C-88	25212-20271 Sh. 82, 83, 84
CHS-2-PSSP-422-	M3-87-12484	X7410	3CHS-2-PSST-422	25212-22720 Sh. 74C-88	25212-20271 Sh. 83, 82, 84
CHS-2-PSSP-423-	M3-87-12484	X7410	3CHS-2-PSST-423	25212-22720 Sh. 74C-89	25212-20271 Sh. 84
CHS-2-PSSP-424-	M3-87-12484	X7410	3CHS-2-PSST-424	25212-22720 Sh. 74C-90	25212-20271 Sh. 76, 78, 81
CHS-2-PSSP-425-	M3-87-12484	X7410	3CHS-2-PSST-425	25212-22720 Sh. 74C-90	25212-20271 Sh. 76, 78, 81
CHS-2-PSSP-426-	M3-87-12484	X7410	3CHS-2-PSST-426	25212-22720 Sh. 74C-91	25212-20271 Sh. 75, 78, 80
CHS-2-PSSP-427-	M3-87-12484	X7410	3CHS-2-PSST-427	25212-22720 Sh. 74C-91	25212-20271 Sh. 75, 80, 78
CHS-2-PSSP-428-	M3-87-12484	X7410	3CHS-2-PSST-428	25212-22720 Sh. 74C-92	25212-20271 Sh. 242
CHS-2-PSSP-429-	M3-87-12484	X7410	3CHS-2-PSST-429	25212-22720 Sh. 74C-93	25212-20271 Sh. 242
CHS-2-PSSP-432-	M3-87-12525	X7411	3CHS-2-PSST-432	25212-22720 Sh. 74C-95	25212-20083 Sh. 2, 4
CHS-2-PSSP-433-	M3-87-12525	X7411	3CHS-2-PSST-433	25212-22720 Sh. 74C-95	25212-20083 Sh. 2, 4
CHS-2-PSSP-434-	M3-87-12525	X7411	3CHS-2-PSST-434	25212-22720 Sh. 74C-96	25212-20083 Sh. 2, 4
CHS-2-PSSP-435-	M3-87-12525	X7411	3CHS-2-PSST-435	25212-22720 Sh. 74C-96	25212-20083 Sh. 2, 4
CHS-2-PSSP-442-	M3-87-12526	X7411	3CHS-2-PSST-442	25212-22721 Sh. 74D-91	25212-20271 Sh. 73
CHS-2-PSSP-518-	M3-87-12526	X7411	3CHS-2-PSST-518	25212-22721 Sh. 74D-91	25212-20271 Sh. 73
CHS-2-PSSP-443-	M3-87-12529	X7417	3CHS-2-PSST-443	25212-22721 Sh. 74D-92	25212-20269 Sh. 58
CHS-2-PSSP-444-	M3-87-12529	X7417	3CHS-2-PSST-444	25212-22721 Sh. 74D-93	25212-20269 Sh. 58
CHS-2-PSSP-445-	M3-87-12529	X7417	3CHS-2-PSST-445	25212-22721 Sh. 74D-94	25212-20269 Sh. 58
CHS-2-PSSP-448-	M3-87-12534	X7418	3CHS-2-PSST-448	25212-22721	25212-20269 Sh. 112, 113, 114
CHS-2-PSSP-449-	M3-87-12534	X7418	3CHS-2-PSST-449	25212-22721	25212-20269 Sh. 112, 113, 114
CHS-2-PSSP-450-	M3-87-12534	X7418	3CHS-2-PSST-450	25212-22721 Sh. 74D-98	25212-20271 Sh. 112, 113, 114
CHS-2-PSSP-451-	M3-87-12534	X7418	3CHS-2-PSST-451	25212-22721 Sh. 74D-98	25212-20271 Sh. 112, 113, 114
CHS-2-PSSP-452-	M3-87-12534	X7418	3CHS-2-PSST-452	25212-22721 Sh. 74D-99	25212-20271 Sh. 93, 94, 95
CHS-2-PSSP-453-	M3-87-12534	X7418	3CHS-2-PSST-453	25212-22721 Sh. 74D-99	25212-20271 Sh. 93, 94, 95
CHS-2-PSSP-462-	M3-87-12542	X7401	3CHS-2-PSST-462	25212-22637 Sh. 74B-176	25212-20272 Sh. 154
CHS-2-PSSP-528-	M3-87-12542	X7401	3CHS-2-PSST-528	25212-22637 Sh. 74B-176	25212-20272 Sh. 154
CHS-1-PSSP-604-	M3-87-12550	X7421	3CHS-1-PSST-604	25212-22617 Sh. 74A-22	25212-20080 Sh. 64
CHS-1-PSSP-606-	M3-87-12550	X7421	3CHS-1-PSST-606	25212-22617 Sh. 74A-24	25212-20080 Sh. 62, 64
CHS-1-PSSP-607-	M3-87-12550	X7421	3CHS-1-PSST-607	25212-22617 Sh. 74A-24	25212-20080 Sh. 62, 64
CHS-1-PSSP-612-	M3-87-12550	X7421	3CHS-1-PSST-612	25212-22617 Sh. 74A-29	25212-20080 Sh. 67
CHS-1-PSSP-651-	M3-87-12550	X7421	3CHS-1-PSST-651	25212-22617 Sh. 74A-92	25212-20080 Sh. 67
CHS-1-PSSP-622-	M3-87-12553	X7426	3CHS-1-PSST-622	25212-22617 Sh. 74A-36	25212-20080 Sh. 60
CHS-1-PSSP-624-	M3-87-12553	X7426	3CHS-1-PSST-624	25212-22617 Sh. 74A-37	25212-20080 Sh. 60
RCS-1-PSSP-954-	M3-87-12668	X10734	RCS-1-PSST-954	25212-22727 Sh. 107T-47	25212-20130 Sh. 5, 7
RCS-1-PSSP-955-	M3-87-12668	X10734	RCS-1-PSST-955	25212-22727 Sh. 107T-47	25212-20130 Sh. 5, 7
RCS-1-PSSP-957-	M3-87-12668	X10734	RCS-1-PSST-957	25212-22727 Sh. 107T-56	25212-20130 Sh. 5, 7
RCS-1-PSSP-958-	M3-87-12668	X10734	RCS-1-PSST-958	25212-22727 Sh. 107T-51	25212-20130 Sh. 5, 7
RCS-1-PSSP-1521-	M3-87-12668	X10734	3RCS-1-PSST-1521	25212-22730 Sh. 108R-115	25212-21115 Sh. 41, 43
CHS-1-PSSP-623-	M3-87-12666	X7427	3CHS-1-PSST-623	25212-22617 Sh. 74A-38	25212-20080 Sh. 69, 70, 71
CHS-1-PSSP-625-	M3-87-12666	X7427	3CHS-1-PSST-625	25212-22617 Sh. 74A-38	25212-20080 Sh. 69, 70, 71
CHS-1-PSSP-687-	M3-87-12666	X7427	3CHS-1-PSST-627	25212-22617 Sh. 74A-40	25212-20080 Sh. 75
RCS-1-PSSP-714-	M3-87-12712	X7431	RCS-1-PSST-714	25212-22729 Sh. 74R-32	25212-20082 Sh. 33, 35
RCS-1-PSSP-805-	M3-87-12712	X7431	RCS-1-PSST-805	25212-22729 Sh. 74R-16	25212-20082 Sh. 33, 35
SIL-1-PSSP-984-	M3-87-12719	X10706	SIL-1-PSST-984	25212-22626 Sh. 107D-80	25212-20115 Sh. 53
SIL-1-PSSP-987-	M3-87-12719	X10706	SIL-1-PSST-987	25212-22626 Sh. 107D-83	25212-20115 Sh. 53
SIL-1-PSSP-1052-	M3-87-12719	X10706	SIL-1-PSST-1052	25212-22626 Sh. 107D-140	25212-20115 Sh. 48

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed Tully Asst Eng Supv Date 4/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/16/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Ry 300 Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/7/88  
 Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
 Address

2. Plant Millstone Nuclear Power Station Unit 111  
 Name  
P.O. Box 128, Waterford, CT 06385 MP-87-06753  
 Address Authorized Work Order Number

3. Work Performed by Millstone Station  
 Name  
P.O. Box 128, Waterford, CT  
 Address

4. Identification of System RCS

5. (a) Applicable Construction Code ASME 111 1971 Edition, 573 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3RCS*		PD14310					
SUP 4-9	**	148	N/A	PD 14310	N/A	Removed	Yes
SUP 4-9	**	150	N/A	PD 14310	N/A	Replaced	Yes

\*\*Paul Monroe

7. Description of Work Replace #148 with #150 (spare)

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure / /  
 Other /X / Function/Visual Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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



FORM NIS-2 (Back)

Remarks Replacement required due to threads galled during TTIP hardware installation

CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Amit Eng Supt Date 4/20, 19 88  
Owner/Designer's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/14/88 to 4-11-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT, IA  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Date 12/12/87  
 Name  
P.O. Box 128, Waterford, CT Sheet 1 of 2  
 Address

2. Plant Hillstone Nuclear Power Station Unit III  
 Name  
P.O. Box 128, Waterford, CT M3-87-13798  
 Address Authorized Work Order Number

3. Work Performed by C. N. Flagg & Co.  
 Name  
Meriden, CT  
 Address

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ANSI B31.1 1973 Edition, S73 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3-RCS-1		3-RCS-					
PSSP-046	S&W	PSSP-046	N/A	N/A	1987	Replacement	Yes
PSR-168	S&W	PSR-168	N/A	N/A	1987	Replacement	Yes
PSST-028	S&W	PSST-028	N/A	N/A	1987	Replacement	Yes

7. Description of Work Modification to existing supports.

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

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

FORM NIS-2 (Back)

Remarks Splice plates added to PSSP-046 making it removable, tube steel eliminated on PSR-168  
by using a longer strut and added welded attachment to existing support for PSST-028.

CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Insp Date 7/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTIO

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by USA 708 of HARTFORD have inspected the components described in this Owner's Report during the period 8-11-88 to 1-21-89, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-21 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/7/88  
 Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
 Address

2. Plant Millstone Nuclear Power Station Unit 111  
 Name  
P.O. Box 128, Waterford, CT 06385 MP-88-00381  
 Address Authorized Work Order Number

3. Work Performed by Millstone Station  
 Name  
P.O. Box 128, Waterford, CT  
 Address

4. Identification of System Main Steam

5. (a) Applicable Construction Code ANSI B31.1 1971 Edition, 73 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3MSS-4				Drawing			
PSSP-485	Grinnell	9C	N/A	AH-1474-2	N/A	Replacement	Yes

7. Description of Work Fabricate extension tube end bushing and replace existing bushing

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure / /  
 Other /X / Visual ~~test~~ Pressure                      psi Test Temp.                      °F  
M 4/2/88

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

FORM NIS-2 (Back)

9. Remarks Inspections performed - visual and liquid penetrant.

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Abit Erg Supr Date 4/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford inspected the components described in this Owner's Report during the period 3/11/88 to 4-2-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Date 2/19/88  
 Name  
P.O. Box 128, Waterford, CT Sheet 1 of 2  
 Address
2. Plant Millstone Nuclear Power Station Unit 111  
 Name  
P.O. Box 28, Waterford, CT M3-87-02178  
 Address Authorized Work Order Number
3. Work Performed by C. N. Flagg & Co.  
 Name  
Meriden, CT  
 Address
4. Identification of System MSS
5. (a) Applicable Construction Code ANSI B31.1 1973 Edition, S73 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3-MSS-4-				12179-BZ			
PSSP-003-	S&W	N/A	N/A	11A-9	1983	Replacement	Yes
PSSP-489	S&W	N/A	N/A	20-61	1983	Replacement	Yes
PSSP-490	S&W	N/A	N/A	20-61	1983	Replacement	Yes

7. Description of Work New duct supports 3-HVV-4-DS9073/064 on 2/19/88 were attached to above supports
8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /  
 Other / Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks E&DCR N-CS-03805, PDCR #MP3-87-012

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CERTIFICATE OF COMPLIANCE

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

Signed *July* Asst Eng Supv Date 7/20, 19 87  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/23/88 to 4-3-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*R J Z...* Commissions CT 1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 7-21 19 87

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

1. Owner Northeast Utilities Service Co. Date 9/12/87  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 MP-87-01580  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System SIL (Replace pipe clamp bolt)

5. (a) Applicable Construction Code ANSI B31.1 1971 Edition, 73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
							(Yes Or No)
SIL-1-PSSP-998	Pacific-Scientific	N/A	N/A	C2-34	N/A	Replaced	
				CH-1082-2		Pipe Clamp Bolt	

7. Description of Work Snubber Replacement (bolt)

8. Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure / /  
Other /X / Visual/Functional Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-2 (Back)

Remarks None

CERTIFICATE OF COMPLIANCE

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

Signed *Tulay* Asst Eng Supv Date 7/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/16/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*RZ Zorn* Commissions CT1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/23/88  
 Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
 Address

2. Plant Millstone Nuclear Power Station Unit 111  
 Name  
P.O. Box 128, Waterford, CT 06385 M3-87-17731  
 Address Authorized Work Order Number

3. Work Performed by Millstone Station  
 Name  
P.O. Box 128, Waterford, CT  
 Address

4. Identification of System Service Water System

5. (a) Applicable Construction Code ASME III 1971 Edition, W73 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3SWP-7-							
PSA-033	S&W	39558	N/A	N/A	1984	Replacement	Yes

PDCE 3-87-101

7. Description of Work Welds joining support plate were cut/rewelded to facilitate repair of service water strainer.

Tests Conducted: Hydrostatic / / Pneumatic / / Nominal Operating Pressure 125 psi  
 Other 1K/ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
*up exam*

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Sup Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CR and employed by NSR I&I of HARTFORD have inspected the components described in this Owner's Report during the period 3-1-88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Date 2/4/88  
 Name  
P.O. Box 128, Waterford, CT Sheet 1 of 2  
 Address

2. Plant Millstone Nuclear Power Station Unit III  
 Name  
P.O. Box 128, Waterford, CT M3-87-14709  
 Address Authorized Work Order Number

3. Work Performed by C. N. Flagg & Co.  
 Name  
Meriden, CT  
 Address

4. Identification of System Diesel Fuel Oil

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
CP-360530-							
H010	S&W	N/A	N/A	N/A	1987	Replacement	Yes
H011	S&W	N/A	N/A	N/A	1987	Replacement	Yes
H012	S&W	N/A	N/A	N/A	1987	Replacement	Yes

7. Description of Work \_\_\_\_\_

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks None

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CERTIFICATE OF COMPLIANCE

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

Signed *[Signature]* Asst Eng Supv Date 4/20, 19 88  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 2/12/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions CT1119  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Date 12/19/87  
 Name  
P.O. Box 128, Waterford, CT Sheet 1 of 2  
 Address

2. Plant Millstone Nuclear Power Station Unit III  
 Name  
P.O. Box 128, Waterford, CT M3-87-14696/M3-87-14697  
 Address Authorized Work Order Number

3. Work Performed by C. N. Flagg & Co.  
 Name  
Meriden, CT  
 Address

4. Identification of System Emergency Diesel Generator Lube Oil

5. (a) Applicable Construction Code ANSI B31.1 1973 Edition, S73 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board		Year Built	Repaired, Replaced, or Replacement	ASME Code
			No.	Other Identification			Stamped (Yes Or No)
3EG0-6-TPSR							
117-119	S&W	N/A	N/A	N/A	1987	Replacement	Yes
120-123	S&W	N/A	N/A	N/A	1987	Replacement	Yes

7. Description of Work New supports installed as detailed on E&DCR #N-CS-03323

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks None

CERTIFICATE OF COMPLIANCE

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

Signed *Only* Asst Eng Supv Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 1/19/88 to 2-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*Ry 200* Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4/21, 19 88

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

1. Owner Northeast Utilities Service Co. Date 3/9/87  
Name

P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
Address

2. Plant Millstone Nuclear Power Station Unit 111  
Name

P.O. Box 128, Waterford, CT 06385 M3-87-03384  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System CCP

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
CP372076							
+H007	S&W	N/A	N/A	E+DCR FJ38000	1981	Replacement	Yes

7. Description of Work Replacement of a nut misplaced during disassembly

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-2 (Back)

Remarks None

CERTIFICATE OF COMPLIANCE

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

Signed *July* Asst Eng Supr Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 3/11/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*RJ Zorn* Commissions CT1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Date 12/12/87  
 Name  
P.O. Box 128, Waterford, CT Sheet 1 of 2  
 Address

2. Plant Millstone Nuclear Power Station Unit III  
 Name  
P.O. Box 128, Waterford, CT M3-87-13868/M3-87-13870  
 Address Authorized Work Order Number

3. Work Performed by C. N. Flagg & Co  
 Name  
Meriden, CT  
 Address

4. Identification of System Service Water System

5. (a) Applicable Construction Code B31.1 1973 Edition, S73 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3-SWP-6-				N-CS-			
PSR-214	S&W	N/A	N/A	3186	N/A	Modification	No
PSR-227	S&W	N/A	N/A	3145	N/A	Modification	No
PSR-226	S&W	N/A	N/A	3145	N/A	Modification	No

7. Description of Work ~~ENDCR's N CS-3186-3145~~ E + DCR's N-CS-3186/3145 <sup>Rev</sup> 4/2/88

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Attachment of tube steel, plate and angle to QA Cat. 1 SWP Pipe supports is required to support installation of Emergency Diesel Air Dryer System.

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] Asst Eng Supv Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 1/19/88 to 4-21-88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions CT 1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

7. EXAMINATION CLASS BOUNDARY DIAGRAMS

	<u>Drawing Number</u>
Class 1 Boundaries	25212-20997
Class 2 Boundaries	25212-20998 Sh. 1 & 2
Class 3 Boundaries	25212-20999 Sh. 1, 2, & 3

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

1. Owner Northeast Utilities Service Co. Date 4/8/88  
 Name  
P.O. Box 128, Waterford, CT 06385 Sheet 1 of 2  
 Address

2. Plant Millstone Station Unit 111  
 Name  
P.O. Box 128, Waterford, CT M3-87-17097  
 Address Authorized Work Order Number

3. Work Performed by Millstone Station  
 Name  
P.O. Box 128, Waterford, CT  
 Address

4. Identification of System Service Water

5. (a) Applicable Construction Code ASME III 1971 Edition, W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
3SWP-7-PSA33	Southwest	39558	N/A	FW 83-1	1984	Replacement	Yes

Note: PDCE 3-87-101

7. Description of Work Addition of flanges to facilitate replacement of strainer intervals.

8. Tests Conducted: Hydrostatic / Pneumatic / Nominal Operating Pressure /X/  
 Other /X/ Visual Exam Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks None

CERTIFICATE OF COMPLIANCE

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

Signed [Signature] Asst Eng Supt Date 4/20, 19 88  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period 12/8/87 to 4/12/88, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions C1119  
Inspector's Signature National Board, State, Province, and Endorsements

Date 4-21 19 88

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

1. Owner Northeast Utilities Service Co. Date 4/11/88  
Name

P.O. Box 128, Waterford, CT Sheet 1 of 2  
Address

2. Plant Millstone Station Unit 111  
Name

P.O. Box 128, Waterford, CT M3-87-17516  
Address Authorized Work Order Number

3. Work Performed by Millstone Station  
Name

P.O. Box 128, Waterford, CT  
Address

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ASME III 1971 Edition, S73 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983, S83

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes Or No)
PIN	Westinghouse	N/A	N/A	NF Support	N/A	Replacement	Yes

7. Description of Work See remarks

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks Modification (PDCR M3-87-103) to drill and tap a 1" dia. hole, 5/16" deep (in the CRDM lateral support strut pins (3" dia.)) to facilitate the disassembly.

CERTIFICATE OF COMPLIANCE

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

Signed *only* *Asst Eng Svc* Date *7/10*, 19 *88*  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Connecticut and employed by HSB I&I of Hartford have inspected the components described in this Owner's Report during the period December 11, 1987 to April 12, 1988, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*A. J. ...* Commissions *CT 1119*  
Inspector's Signature National Board, State, Province, and Endorsements

Date *7/21* 19 *88*

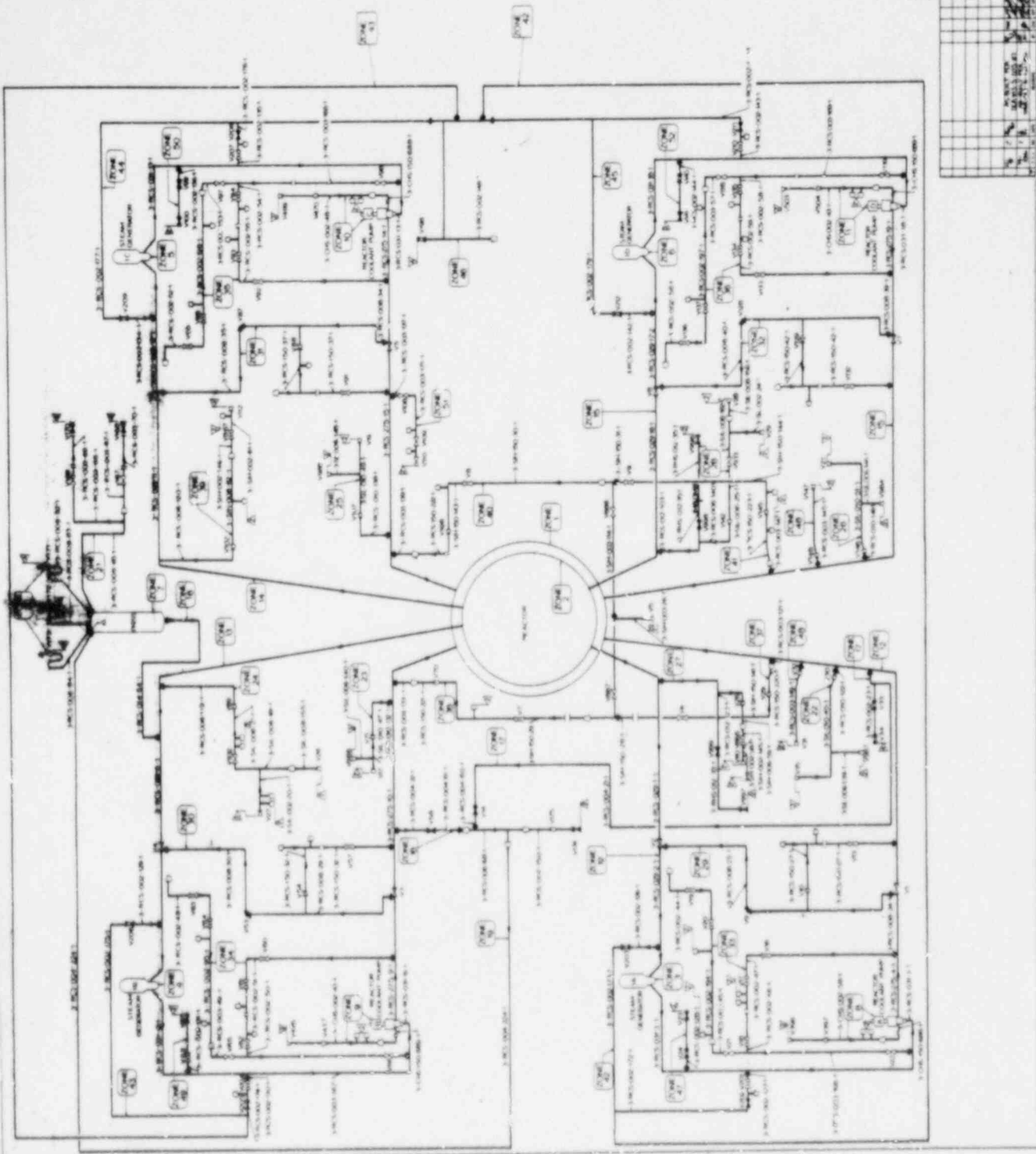


LEGEND

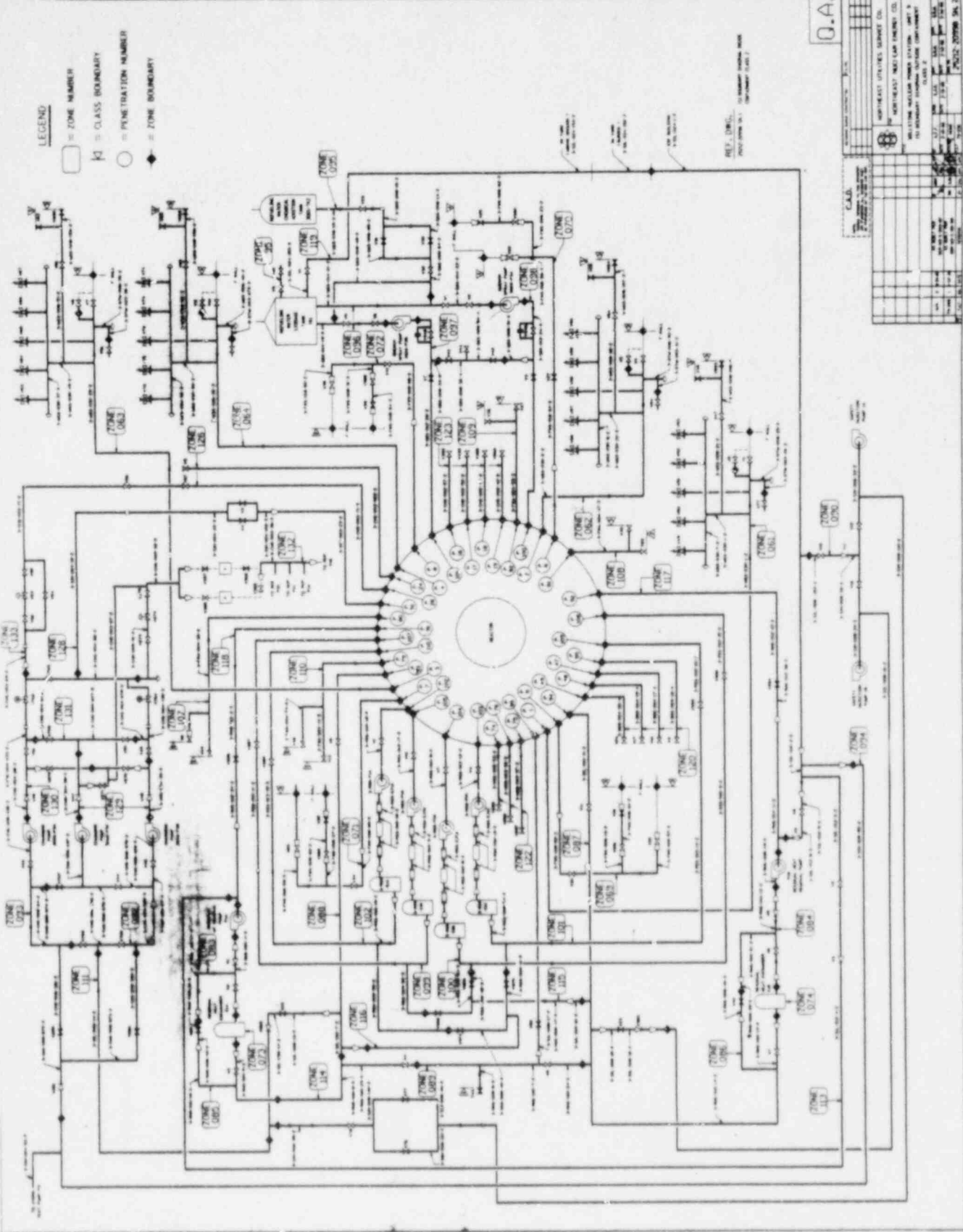
- - ZONE NUMBER
- |— CLASS BOUNDARY
- |— ZONE BOUNDARY

0A

WINN-DIXIE UTILITIES SERVICE CO.  
 NORTHWEST INDIANA ENERGY CO.  
 100 WEST WASHINGTON STREET, SUITE 100  
 INDIANAPOLIS, INDIANA 46204  
 PHONE: 317-434-1234  
 FAX: 317-434-1235  
 E-MAIL: WINN-DIXIE@INDIANA.EDS.COM







LEGEND

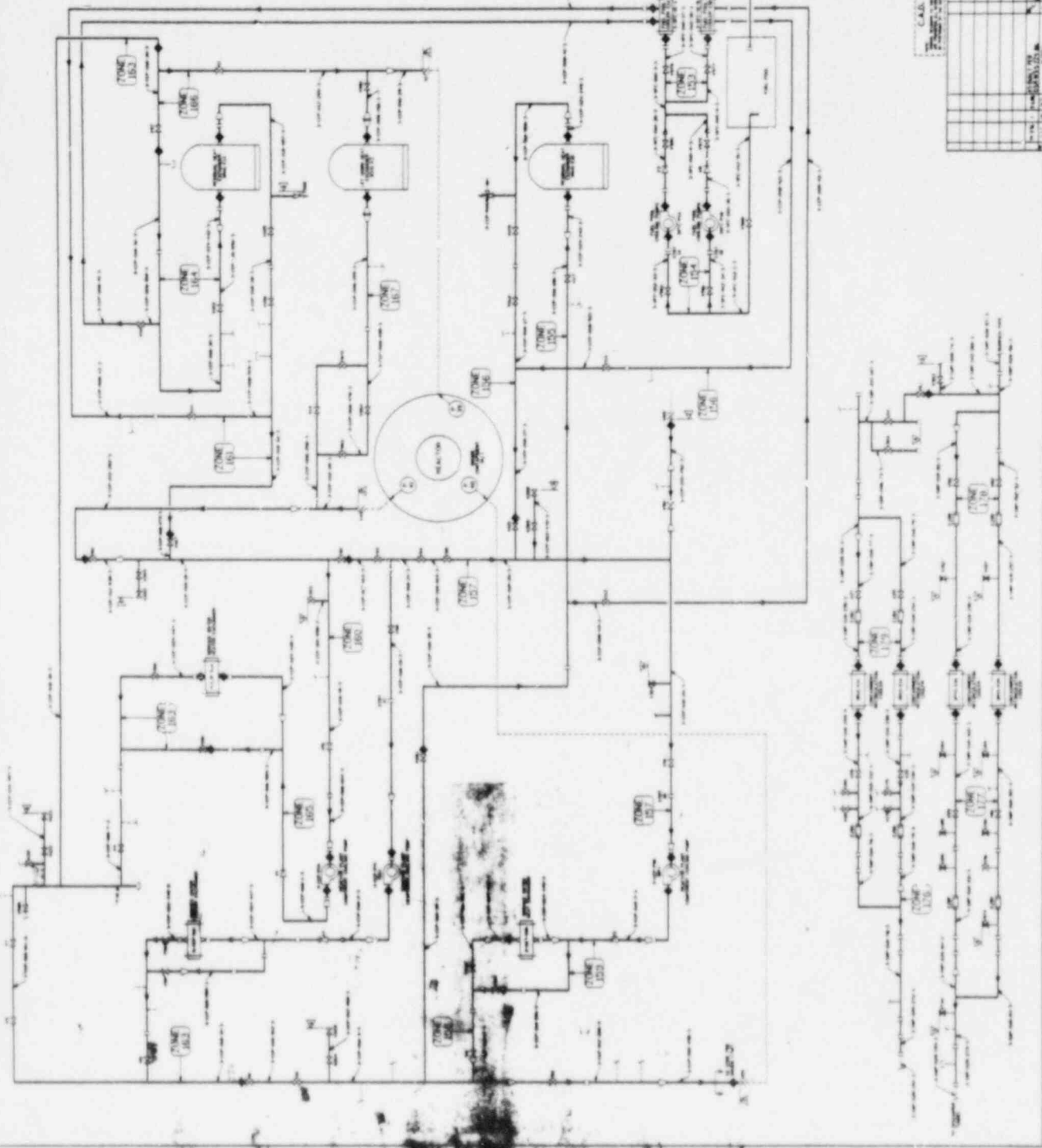
- = ZONE NUMBER
- k = CLASS BOUNDARY
- = PENETRATION NUMBER
- ◆ = ZONE BOUNDARY

CLASS		WESTERN STEEL SHIPMENT CO.	
PROJECT NAME		WESTERN STEEL SHIPMENT CO. SHIP	
DATE		1944	
DRAWN BY		J. A.	
CHECKED BY			
APPROVED BY			
SCALE		AS SHOWN	
SHEET NO.		1	
TOTAL SHEETS		1	
PROJECT NUMBER		7032-20708-3A.2	



LEGEND

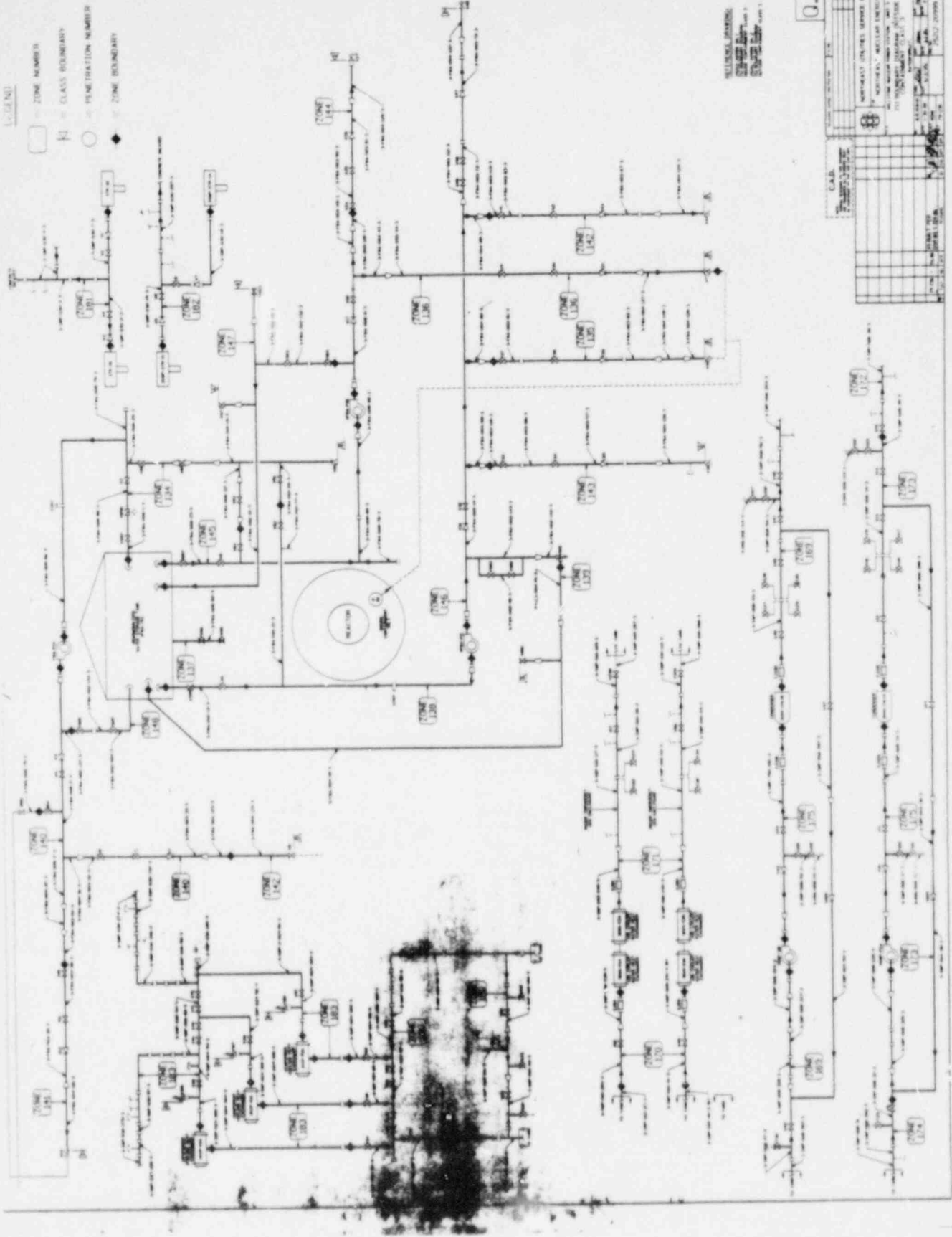
- ZONE NUMBER
- ⌈ CLASS BOUNDARY
- PENETRATION NUMBER
- ◆ ZONE BOUNDARY



REVISIONS  
DATE  
BY  
CHECKED  
DATE  
BY

CLASS	PROJECT NUMBER	DATE
8		
NORTHWEST INDUSTRIAL SERVICE CO.		
10000 100TH AVE. S.W.		
SHAWNEE, OREGON 97132		
DRAWN BY: [Name]		
CHECKED BY: [Name]		
DATE: [Date]		
SCALE: [Scale]		
SHEET NO. 2		

0.A



WILLIAMS BROTHERS  
 ENGINEERS  
 100 N. W. 10th St.  
 MIAMI, FLA.

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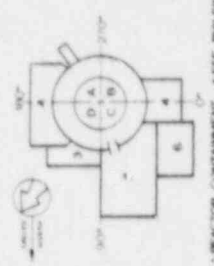
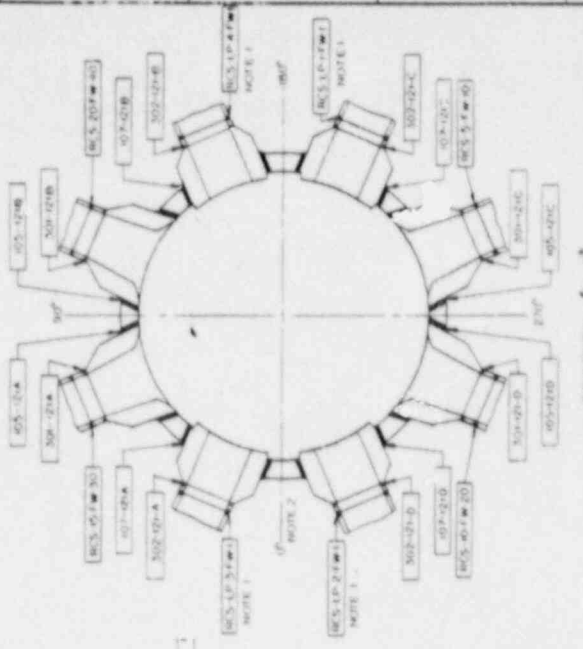
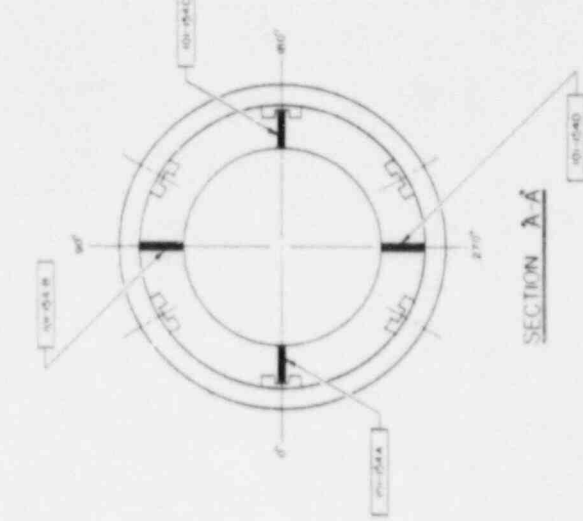
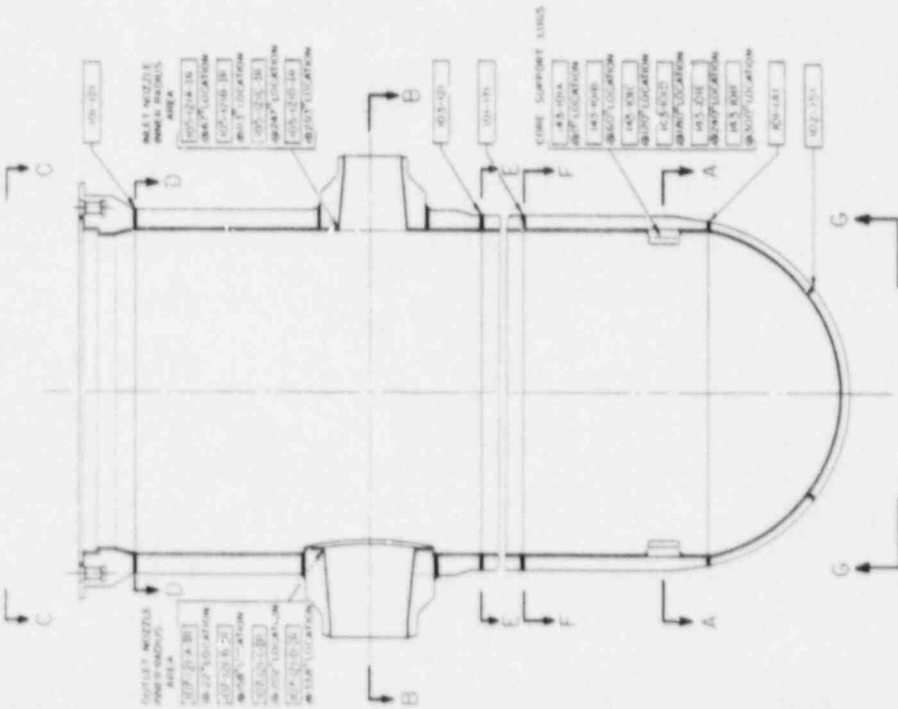
C.A.B.  
 ENGINEERS

WILLIAMS BROTHERS ENGINEERS  
 100 N. W. 10th St.  
 MIAMI, FLA.

7.1 Examination (Zone) Isometric Drawings

Summary Table  
Examination Zone Listing

ZONE	CLASS 1 SYSTEMS	Drawing Number	
		NDE	HANGER
1	Reactor Pressure Vessel	20900	N/A
3	Steam Generator 1A Primary Side	20901	N/A
4	Steam Generator 1B Primary Side	20902	N/A
8	Reactor Coolant Pump 1A	20906, 20914	
14	Reactor Coolant Piping Loop 3	20912	N/A
15	Reactor Coolant Piping Loop 4	20913	N/A
16	Pressurizer Surge Line	20918	20993 Sh. 16
19	Pressurizer Spray Line Combined	20921	20993 Sh. 19
25	Safety Injection Loop C (10")	20927	20993 Sh. 25
27	Residual Heat Removal & 6" HPSI Combined (Loop A)	20929	20993 Sh. 27
37	HPSI Loop A (1½")	20939	20993 Sh. 37
<u>CLASS 2 SYSTEMS</u>			
53	Steam Generator A Secondary Side	20955	20993 Sh. 53
57	Main Steam Loop C Inside Containment	20959	20993 Sh. 57
62	Main Steam Loop B Outside Containment	20976	20993 Sh. 62
64	Main Steam Loop D Outside Containment	20978	20993 Sh. 64
65	Main and Auxiliary Feedwater Loop A Inside Containment	20963	20993 Sh. 65
66	Main and Auxiliary Feedwater Loop B Inside Containment	20964	20993 S' 66
67	Main and Auxiliary Feedwater Loop C Inside Containment	20965	20993 Sh. 67
68	Main and Auxiliary Feedwater Loop D Inside Containment	20966	20993 Sh. 68
74	Residual Heat Removal Heat Exchanger "B"	20984	20993 Sh. 74
75	Safety Injection Tank A to Loop A	20967	20993 Sh. 75
80	Safety Injection, Penetration 94 to Loop C, D	20972	20993 Sh. 80
88	Low Pressure Safety Injection	20865	20993 Sh. 88
91	Low Pressure Safety Injection	20868	20993 Sh. 91
<u>CLASS 3 SYSTEMS</u>			
169	SWP from EGS #E2A and E2B Pumps to Yard		20993 Sh. 169



**REFERENCE DRAWINGS**

CONSTRUCTION ENGINEERING  
DATE: 5/73

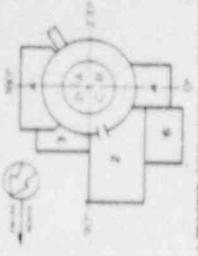
REF	NO.	DESCRIPTION
1	2-2126	WELD 101 W-40
2	2-2127	WELD 102 W-40
3	2-2128	WELD 103 W-40

**QA**

NORTHWEST UTILITIES SERVICE CO.	
MILLSTONE NUC. PWR. STA. UNIT 3	
REACTOR VESSEL - ZONE 001	
WELD DESIGNATIONS	
DATE:	5/73
DRAWN BY:	J. J. [initials]
CHECKED BY:	[initials]
APPROVED BY:	[initials]
AREA:	WELD DESIGNATIONS
PROJECT NO.:	MS-10000 SH. 1 OF 3

- NOTES**
- 1. NOT TO SCALE BE IDENTIFIED BY A CIRCLED NUMBER IN PARENTHESES.
  - 2. IS LOCATED BETWEEN (P-2) HOT LEGS (H.L.) AND (P-3) HOT LEGS (H.L.).

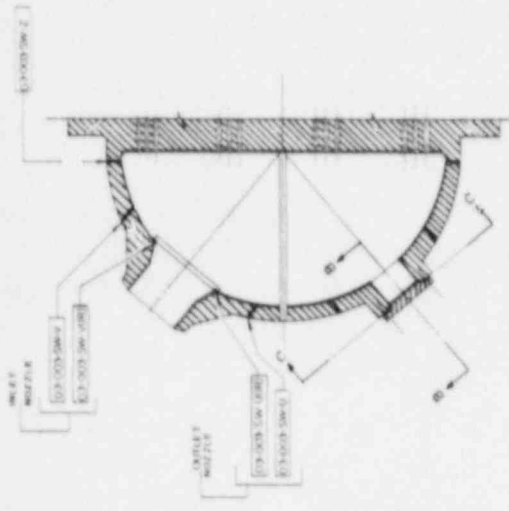




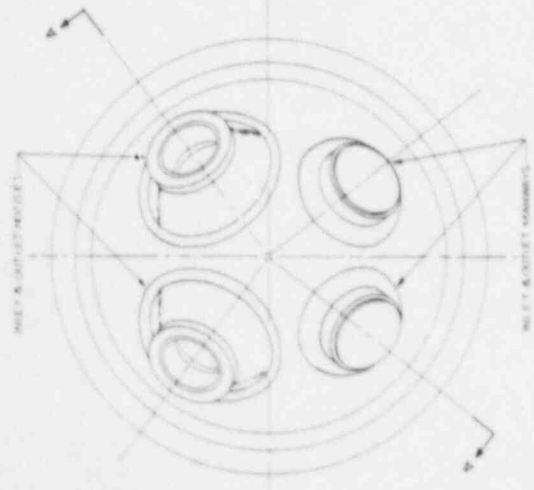
- 1 REACTOR CONTAINMENT
- 2 AUXILIARY BUILDINGS
- 3 FUEL BUILDINGS
- 4 ESP BUILDING
- 5 MAIN STEAM VALVE BLDG
- 6 CONTROL & SERVICE BLDG

REFERENCE DRAWINGS:

REF	DESCRIPTION
1	CONCRETE WORK FILE NO. 2203 000-000A
2	REFRIGERATION WORK FILE NO. 2203 000-000B



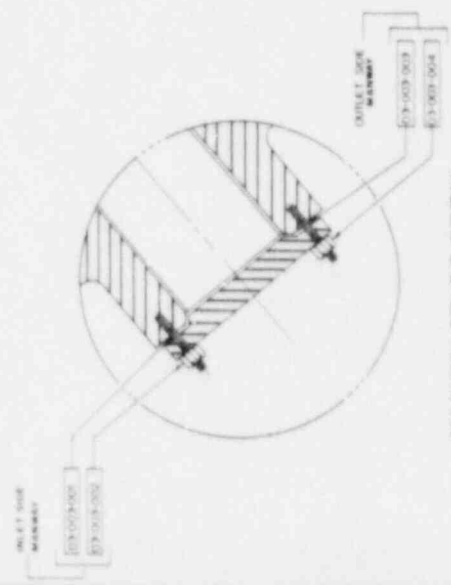
SECTIONAL ELEVATION  
SECTION A-A



BOTTOM VIEW



MANWAY STUDS LOCATION  
SECTION C-C  
(TYP)



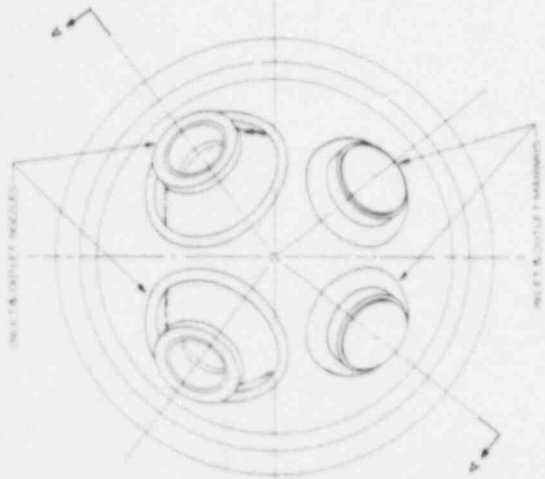
MANWAY STUDS DETAIL  
SECTION B-B

INLET SIDE MANWAY DEGRADATION		OUTLET SIDE MANWAY DEGRADATION	
NO.	DEPTH	NO.	DEPTH
1	0.000	1	0.000
2	0.000	2	0.000
3	0.000	3	0.000
4	0.000	4	0.000
5	0.000	5	0.000
6	0.000	6	0.000
7	0.000	7	0.000
8	0.000	8	0.000
9	0.000	9	0.000
10	0.000	10	0.000
11	0.000	11	0.000
12	0.000	12	0.000
13	0.000	13	0.000
14	0.000	14	0.000
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18	0.000	18	0.000

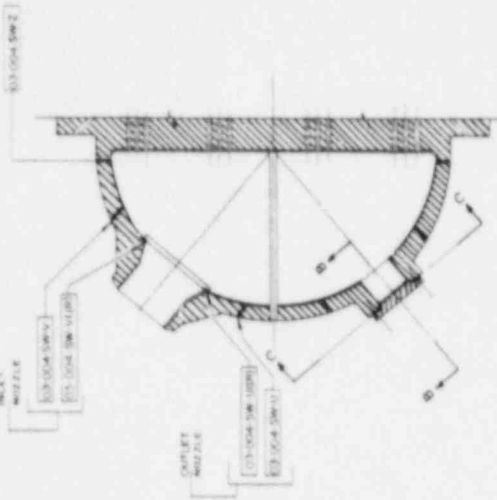
QA

NORTH EAST UTILITIES SERVICE CO.  
NORTH EAST NUC. ENERGY CO.  
MILLSTONE NUC. PWR. STA. UNIT 3  
STEAM GENERATOR 1A (LOOP 1)  
ZONE 003

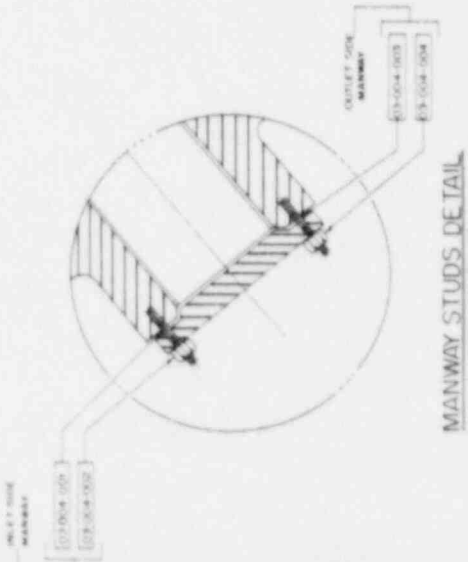
DATE: 12/13/83  
DRAWN BY: JRM  
CHECKED BY: JRM  
SCALE: AS SHOWN  
AREA: 1  
25212-20901



**BOTTOM VIEW**  
INLET & OUTLET MANWAYS



**SECTIONAL ELEVATION**  
SECTION "A-A"



**MANWAY STUDS DETAIL**  
SECTION "B-B"



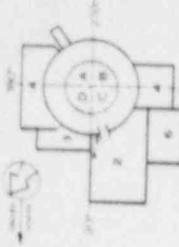
**MANWAY STUDS LOCATION**  
SECTION "C-C"  
(TYP)

INLET SIDE  
MANWAY DESIGNATION: 03-004-001

NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

OUTLET SIDE  
MANWAY DESIGNATION: 03-004-004 T

NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20



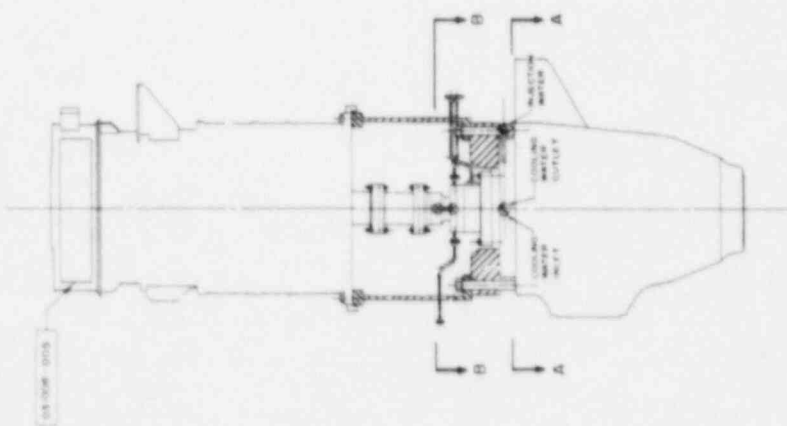
- 1 REACTION CONTAINMENT
- 2 MAIN STEAM VALVE BUILDING
- 3 STEEL BUILDING
- 4 ESF BUILDING A
- 5 MAIN STEAM VALVE BUILDING
- 6 CONTROL & SERVICE BLDG

**REFERENCE DRAWINGS:**

NO.	REFERENCE DRAWING	NO.
1	03-004-001	1
2	03-004-004 T	2

0A

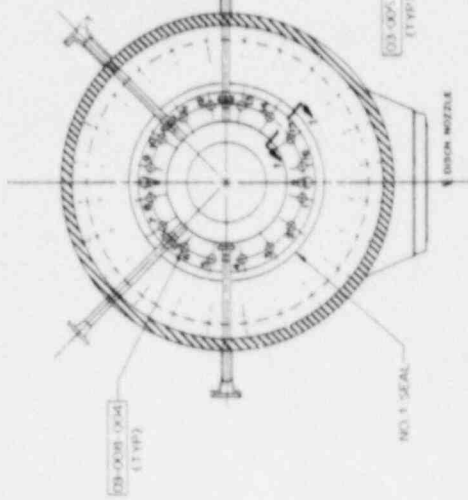
NORTH EAST UTILITIES SERVICE CO.		NORTH EAST NUC. ENERGY CO.	
MILLSTONE NUC. PWR. STA. UNIT 3 STEAM GENERATOR (B LOOP 2) ZONE 00-4			
DATE	SCALE	DR. NO.	REV.
10/23/83	1/8" = 1'-0"	103-004-004 T	1
DESIGNED BY	CHECKED BY	APPROVED BY	DATE
...	...	...	...



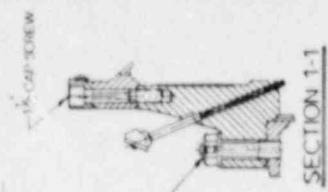
REACTOR COOLANT PUMP

VIEW BOX 1  
IDENTIFICATION  
03-0000-0004

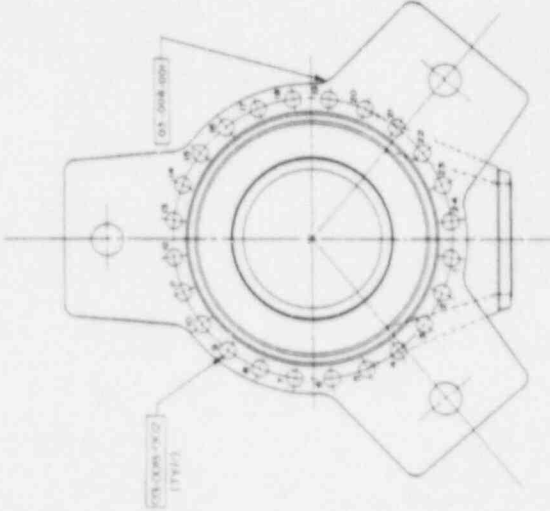
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SECTION "B-B"  
ENLARGE VIEW



SECTION 1-1

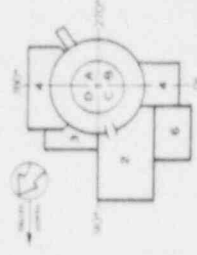


SECTION "A-A"  
ENLARGE VIEW

STUD	NUT	DESIGNATION	IDENTIFICATION
1		03-0000-0002-11	03-0000-0003
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REFERENCE DRAWINGS

- REF: 1 0-1007-20  
2 0-1007-20  
3 0-110-1-5000



- 1 REACTOR CONTAINMENT BUILDING  
2 REACTOR CONTAINMENT BUILDING  
3 STEEL BUILDING  
4 CSP BUILDING & REACTOR CONTAINMENT BUILDING  
5 CONTROL & SERVICE BUILDING

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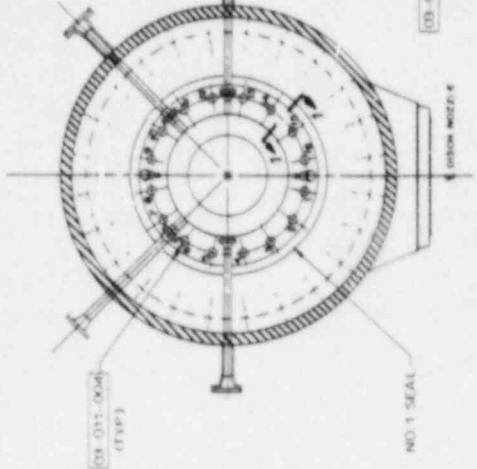
NORTHEAST UTILITIES SERVICE CO  
NORTHEAST NUC. ENERGY CO  
MILLSTONE NUC. PWR. STA. UNIT 3  
REACTOR COOLANT PUMP 1 A  
ZONE OOB

DATE: 11/11/83  
BY: JLD/ML  
CHKD: JLD/ML  
APP. BY: JLD/ML  
APP. DATE: 11/11/83

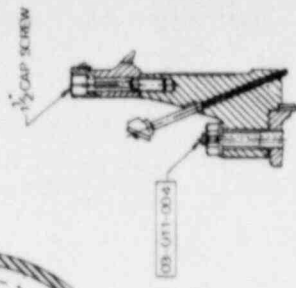
WELDING SYMBOLS: 1. 1/8" 304 SS  
2. 1/4" 304 SS  
3. 1/2" 304 SS  
4. 3/4" 304 SS  
5. 1" 304 SS  
6. 1 1/2" 304 SS  
7. 2" 304 SS  
8. 2 1/2" 304 SS  
9. 3" 304 SS  
10. 3 1/2" 304 SS  
11. 4" 304 SS  
12. 4 1/2" 304 SS  
13. 5" 304 SS  
14. 5 1/2" 304 SS  
15. 6" 304 SS  
16. 6 1/2" 304 SS  
17. 7" 304 SS  
18. 7 1/2" 304 SS  
19. 8" 304 SS  
20. 8 1/2" 304 SS  
21. 9" 304 SS  
22. 9 1/2" 304 SS  
23. 10" 304 SS  
24. 10 1/2" 304 SS

WELDING SYMBOLS: 1. 1/8" 304 SS  
2. 1/4" 304 SS  
3. 1/2" 304 SS  
4. 3/4" 304 SS  
5. 1" 304 SS  
6. 1 1/2" 304 SS  
7. 2" 304 SS  
8. 2 1/2" 304 SS  
9. 3" 304 SS  
10. 3 1/2" 304 SS  
11. 4" 304 SS  
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13. 5" 304 SS  
14. 5 1/2" 304 SS  
15. 6" 304 SS  
16. 6 1/2" 304 SS  
17. 7" 304 SS  
18. 7 1/2" 304 SS  
19. 8" 304 SS  
20. 8 1/2" 304 SS  
21. 9" 304 SS  
22. 9 1/2" 304 SS  
23. 10" 304 SS  
24. 10 1/2" 304 SS

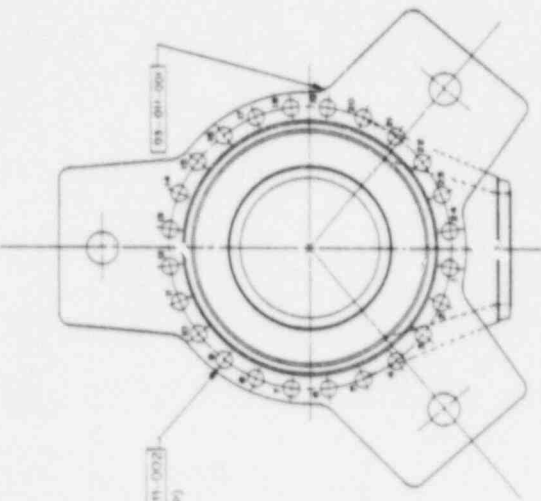
KEY BOLT OR TORQUE WRENCH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1																					



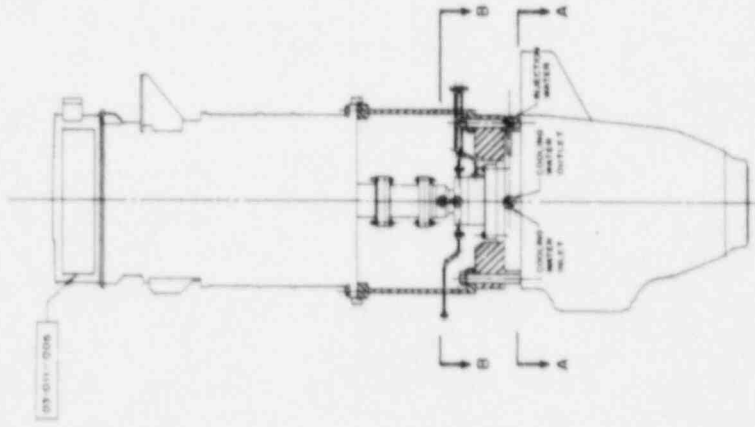
SECTION "B-B"  
ENLARGE VIEW



SECTION 1-1

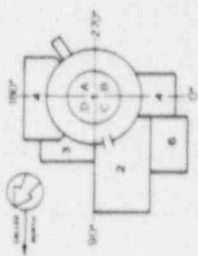


SECTION "A-A"  
ENLARGE VIEW



REACTOR COOLANT PUMP

STUD	DESIGNATION	NUT	DESIGNATION
1	CD-011-002-11		U-10-010
2	11		
3	11		
4	11		
5	11		
6	11		
7	11		
8	11		
9	11		
10	11		
11	11		
12	11		
13	11		
14	11		
15	11		
16	11		
17	11		
18	11		
19	11		
20	11		
21	11		
22	11		
23	11		
24	CD-011-002-11		



REFERENCE DRAWINGS

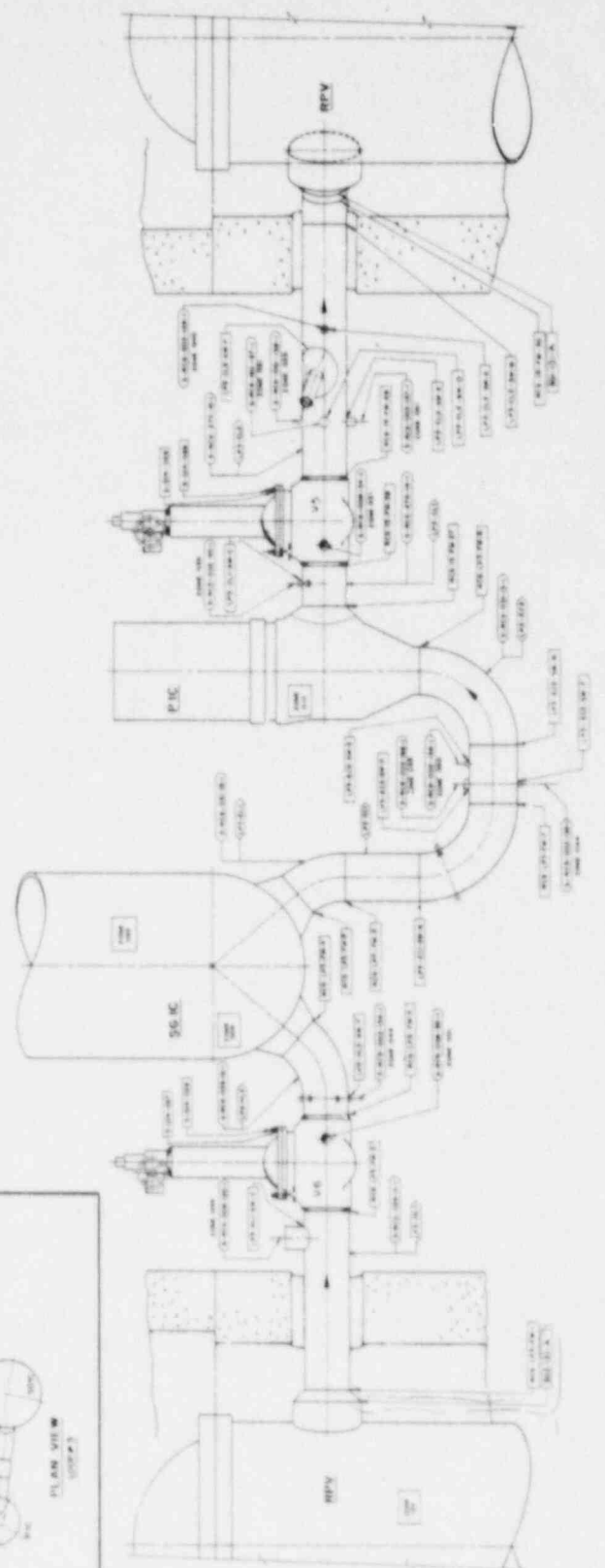
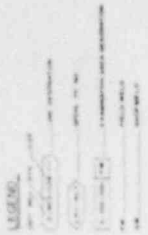
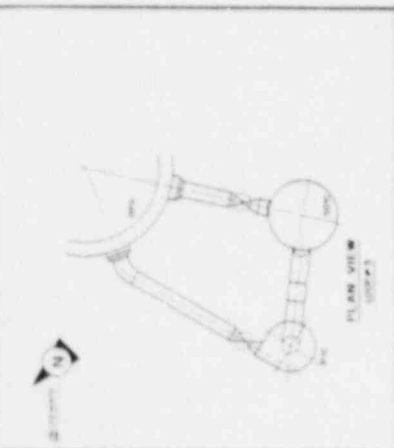
- 1 REACTOR CONTAINMENT
- 2 AUXILIARY BUILDING
- 3 FUEL BUILDING
- 4 ESP BUILDING & MAIN STEAM VALVE BLDG.
- 5 CONTROL & SERVICE BLDG.
- 6 CONTROL & SERVICE BLDG.

QA

NORTHEAST UTILITIES SERVICE CO.  
MILLSTONE NUC. PWR. STA. UNIT 3  
REACTOR COOLANT PUMP 1D  
ZONE 011

DATE	BY	CHKD.	APP'D.	REV.
11/11/71	...	...	...	...

AREA 1  
25313-30000 NH 1 OF 1



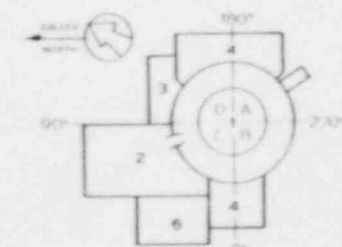
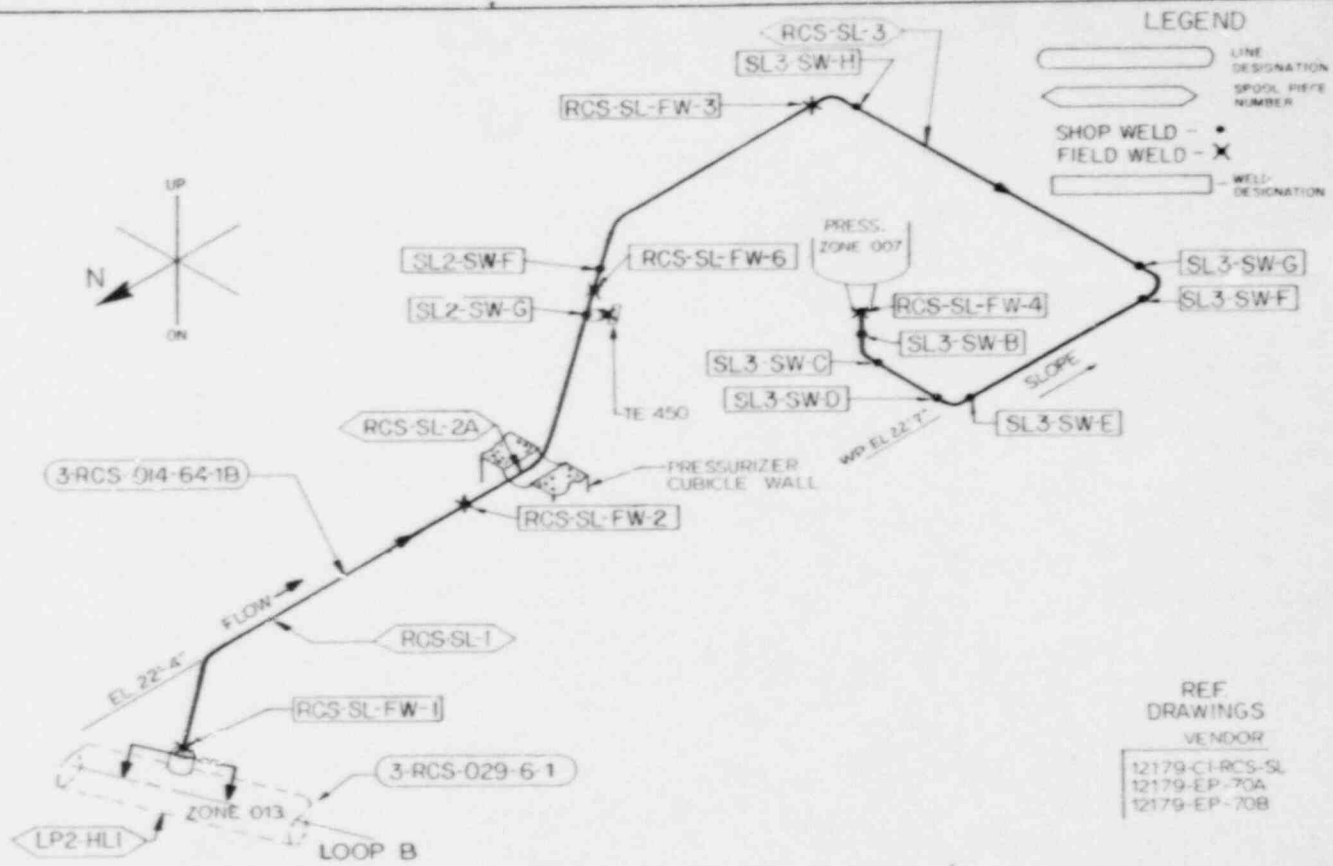
LOOP 3 ROLLED OUT VIEW

NOT TO SCALE  
 DIMENSIONS IN INCHES  
 UNLESS OTHERWISE SPECIFIED

0A

WORKMANS UTILITIES SERVICE CO.	
1000 WEST 10TH AVENUE	
DENVER, COLORADO 80202	
PROJECT NO.	1000000000
DATE	10/10/00
SCALE	AS SHOWN
DRAWN BY	...
CHECKED BY	...
APPROVED BY	...





- 1 REACTOR CONTAINMENT
- 2 AUXILIARY BUILDING
- 3 FUEL BUILDING
- 4 ESF BUILDING & MAIN STEAM VALVE BLDG.
- 5 CONTROL & SERVICE BLDG.

**LEGEND**

- LINE DESIGNATION
- ▭ SPOOL PIECE NUMBER
- SHOP WELD
- ✕ FIELD WELD
- ▭ WELD DESIGNATION

REF. DRAWINGS  
VENDOR  
12179-CI-RCS-SL  
12179-EP-70A  
12179-EP-70B

**NOTES**

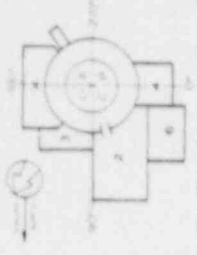
- 1 SPOOL PIECE NUMBERS REPRESENT FABRICATOR'S SPOOL PIECE TWO NUMBERS
- 2 FOR PURPOSES OF RECORDING INDICATIONS, FLOW SHALL BE CONSIDERED TOWARD THE PRESSURIZER ACTUAL FLOW IS IN BOTH DIRECTIONS.

**Q.A.**

REVISIONS DURING CONSTRUCTION		DATE		BY	

NORTH EAST UTILITIES SERVICE CO.	
NORTH EAST NUC ENERGY CO.	
MILLSTONE NUC PWR STA UNIT 3	
PRESSURIZER SURGE LINE	
ZONE 013	
AREA 1	25212-20918

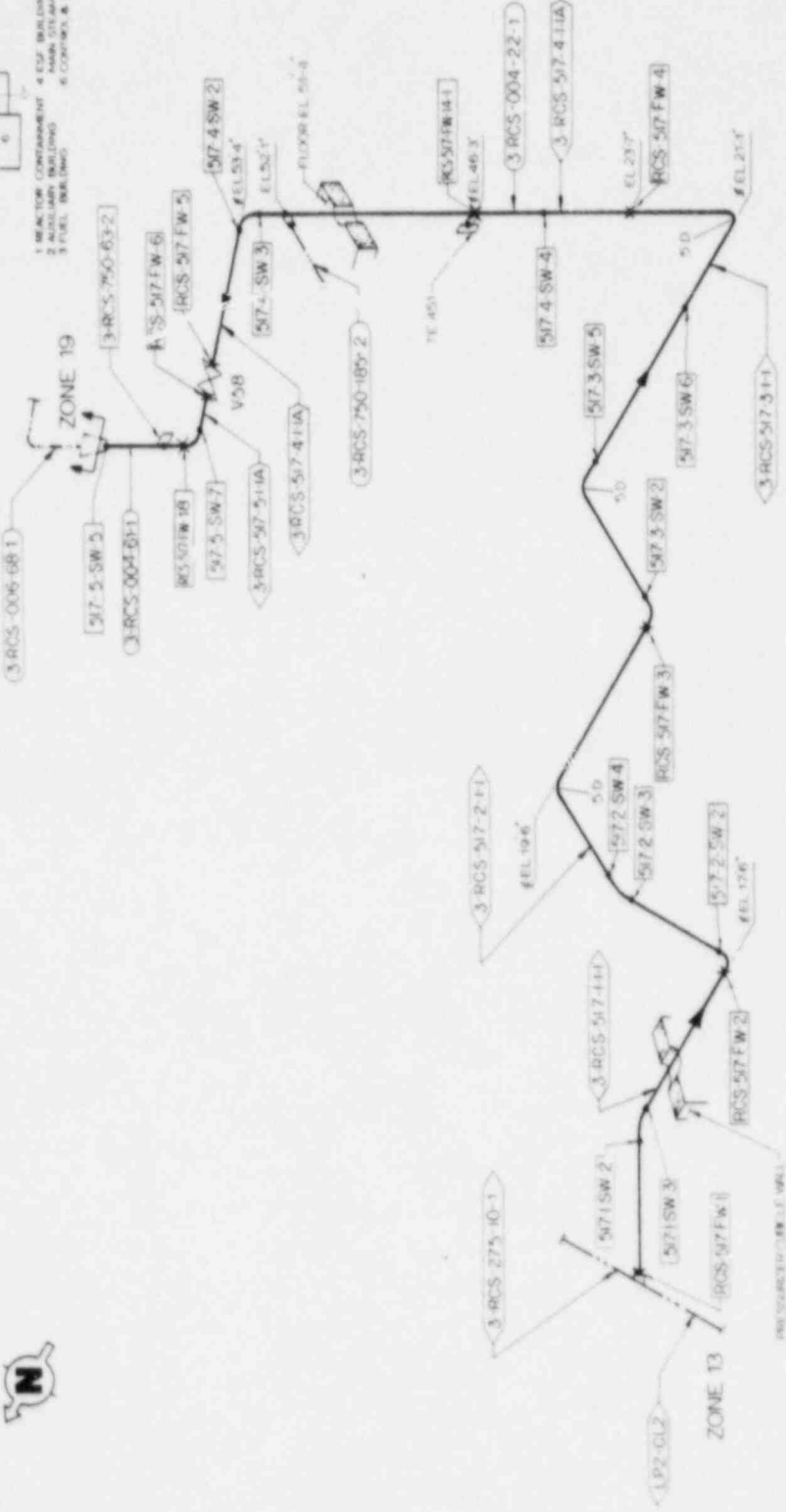


- 1 REACTOR CONTAINMENT
- 2 EAST BUILDING
- 3 FUEL BUILDING
- 4 CONTROL & SERVICE BLDG

REF DRAWINGS  
 Y17-001  
 12179-G1 RCS-517  
 12179-EP-PMA  
 12179-EP-100B

NOTES  
 1 SPOOL, PRICE NUMBERS REPRESENT FABRICATORS, SPOOL, PRICE, 2003 NUMBERS

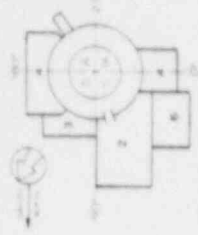
0A



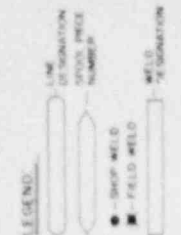
NORTHEAST UTILITIES SERVICE CO	
NORTHEAST NUC ENERGY CO	
MILLSTONE NUC PWR STA UNIT 3	
PRESSURIZER SPRAY LINE	
ZONE 01B	
DATE	12/15/00
BY	J. J. [unclear]
CHECKED	[unclear]
SCALE	AS SHOWN
PROJECT NO.	12179-EP-100B
DATE	12/15/00
BY	J. J. [unclear]
CHECKED	[unclear]
SCALE	AS SHOWN
PROJECT NO.	12179-EP-100B







1. REACTOR COMPARTMENT  
 2. AUXILIARY BUILDING  
 3. FUEL BUILDING  
 4. CONTROL BUILDING  
 5. CONTROL SERVICE BUILDING  
 6. CONTROL SERVICE BUILDING



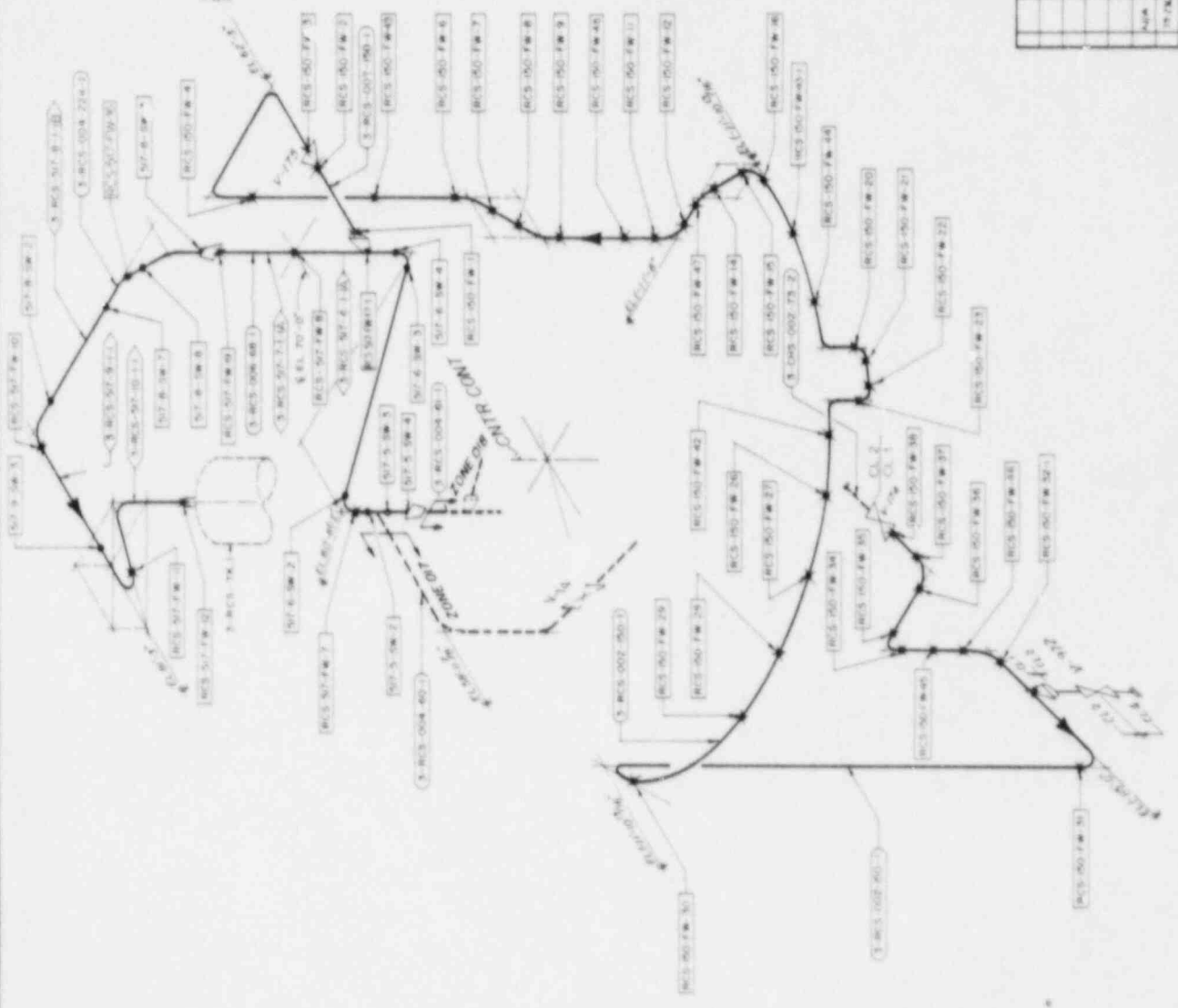
REF. DRAWINGS  
 VENDOR NO.  
 0279-CI-RCS-507  
 0279-CI-RCS-500  
 0279-EP-100A  
 0279-EP-100B

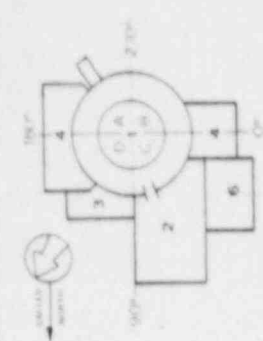
NOTES  
 1. APPROX. PRICE QUOTE BY WESTINGHOUSE  
 FABRICATOR SPECIAL PRICE. QUOTE NUMBER 475

QA

NORTHEAST UTILITIES SERVICE CO.  
 NORTHEAST NUCLEAR ENERGY CO.  
 MILLSTONE POINT NUCLEAR PWR STA - UNIT 3  
 PRESSURIZER SPARY LINE  
 ZONE 019

DATE	BY	CHKD BY	APP'D BY
10/11/78	J. M. ...	...	...
10/12/78	...	...	...
10/13/78	...	...	...
10/14/78	...	...	...
10/15/78	...	...	...
10/16/78	...	...	...
10/17/78	...	...	...
10/18/78	...	...	...
10/19/78	...	...	...
10/20/78	...	...	...
10/21/78	...	...	...
10/22/78	...	...	...
10/23/78	...	...	...
10/24/78	...	...	...
10/25/78	...	...	...
10/26/78	...	...	...
10/27/78	...	...	...
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10/29/78	...	...	...
10/30/78	...	...	...
10/31/78	...	...	...





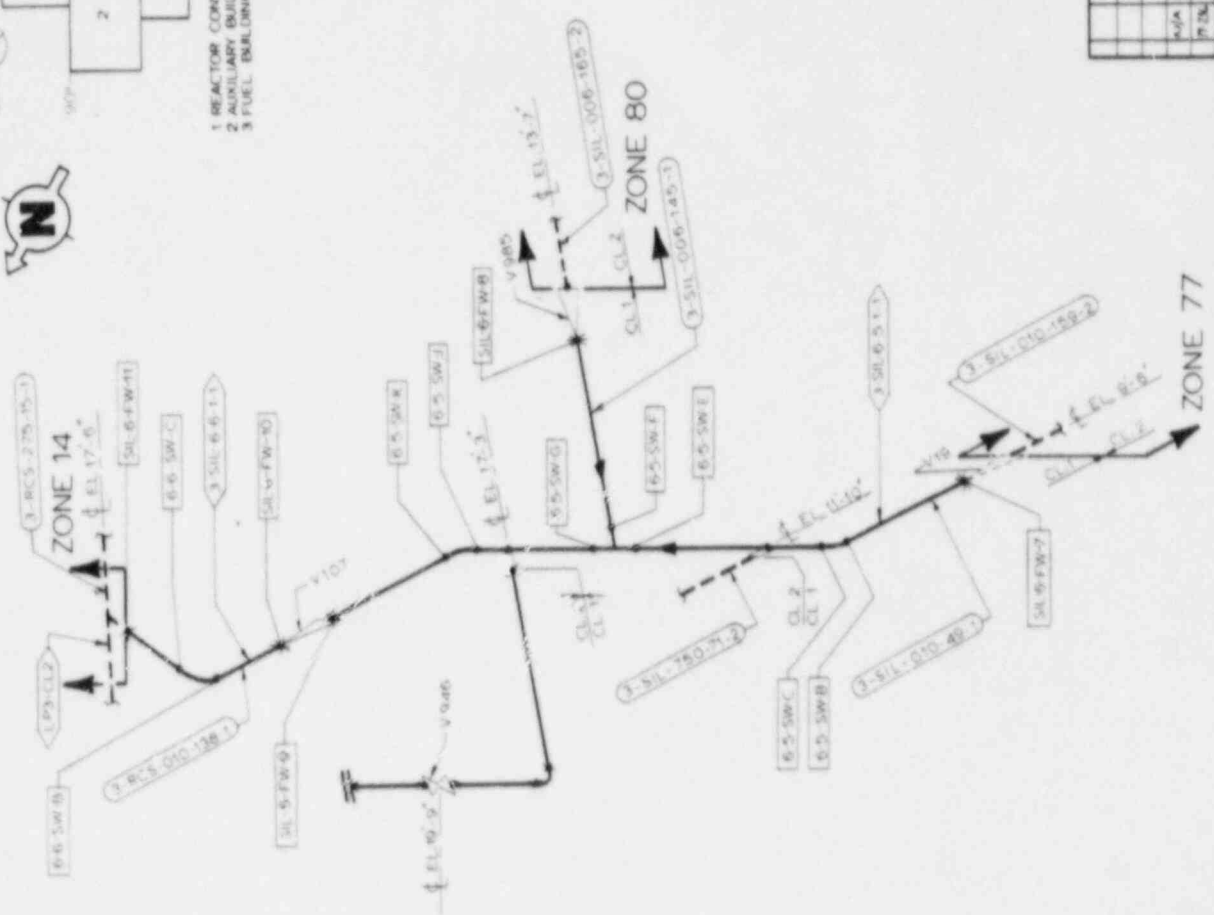
- 1 REACTOR COMPARTMENT
- 4 ESP BUILDING A
- 2 AUXILIARY BUILDING
- 3 FUEL BUILDING
- 6 CONTROL & SERVICE BLDG

REF. DRAWINGS  
 VENDOR  
 12179-C1-SL-6  
 12179-EP-R2A  
 12179-EP-R2B

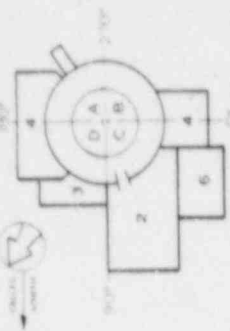
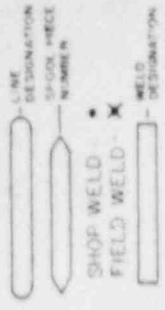
NOTES  
 1 SPOOL PIECE NUMBERS REPRESENT FABRICATORS SPOOL PIECE DWG NUMBERS

**O.A.**

REVISIONS DURING CONSTRUCTION - P. 4, 101	
NO.	DESCRIPTION
1	ISSUED FOR CONSTRUCTION
2	ISSUED FOR CONSTRUCTION
3	ISSUED FOR CONSTRUCTION
4	ISSUED FOR CONSTRUCTION
5	ISSUED FOR CONSTRUCTION
6	ISSUED FOR CONSTRUCTION
7	ISSUED FOR CONSTRUCTION
8	ISSUED FOR CONSTRUCTION
9	ISSUED FOR CONSTRUCTION
10	ISSUED FOR CONSTRUCTION



**LEGEND**



1 REACTOR CONTAINMENT BLDG  
 2 AUXILIARY BUILDING  
 3 FUEL BUILDING  
 4 ESP BUILDING & MAIN STEAM VALVE BLDG  
 5 CONTROL & SERVICE BLDG  
 6 CONTROL & SERVICE BLDG

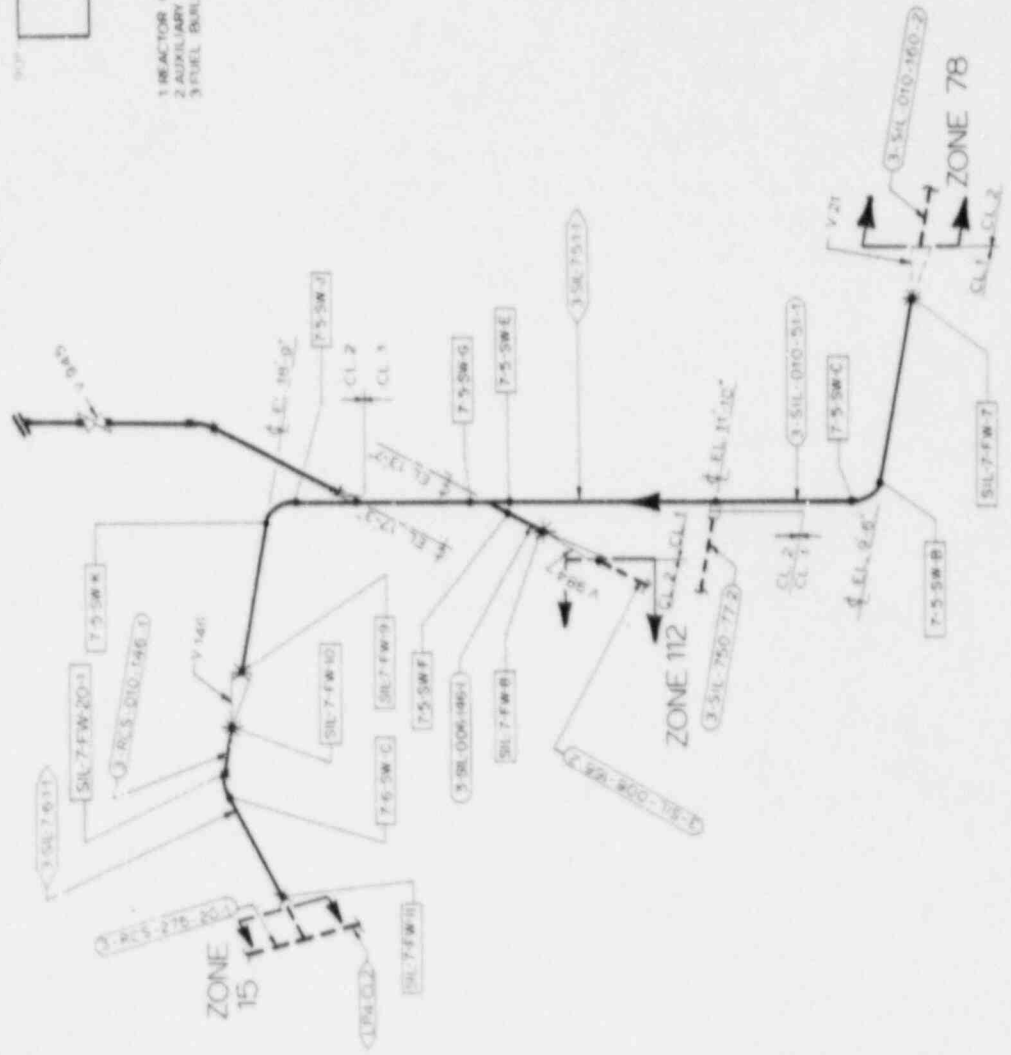
**REF DRAWINGS**

VENDOR  
 Q179-CI-SL-7  
 Q179-EP-R28

**NOTES**

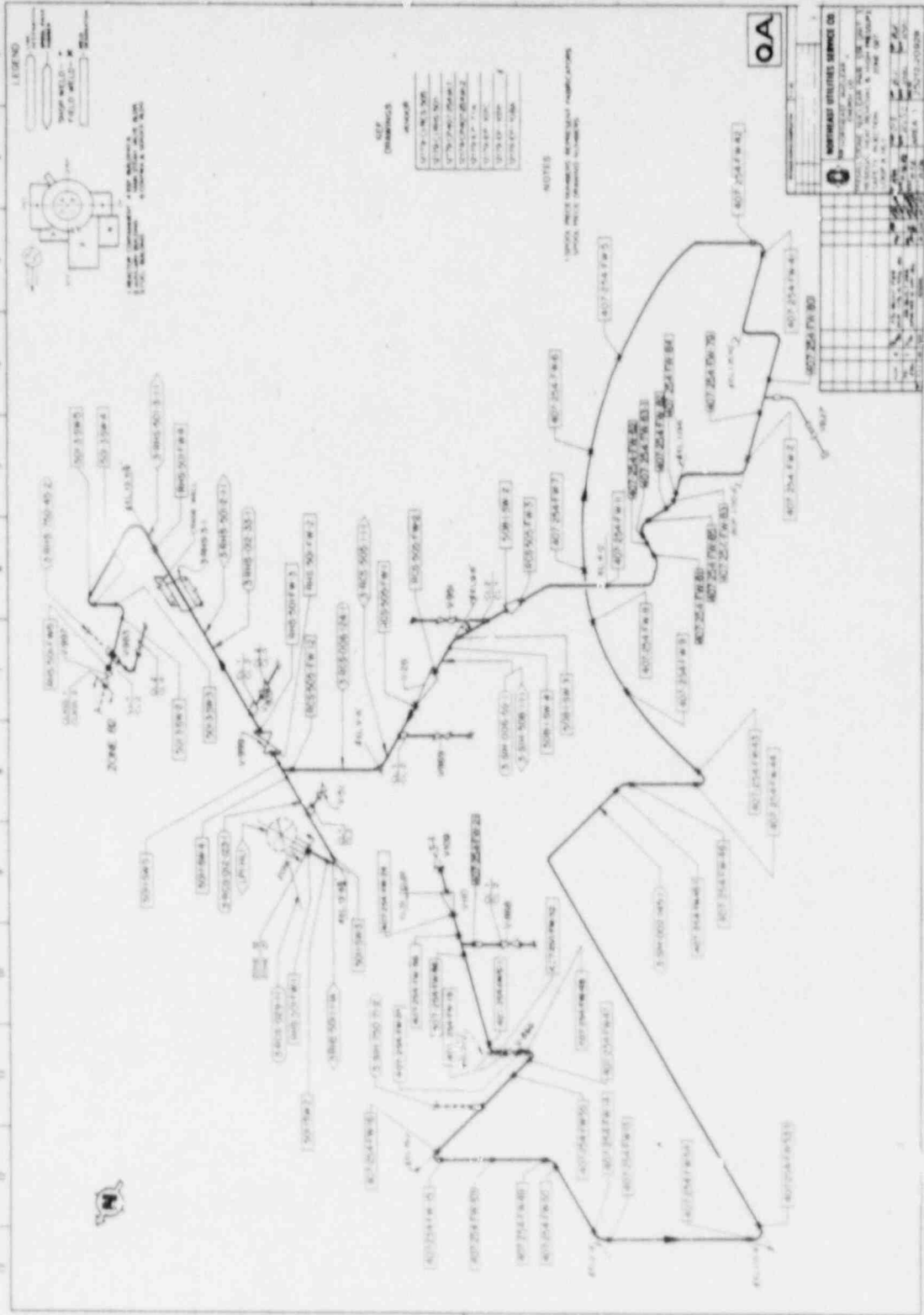
1 SPOOL PRICE NUMBERS REPRESENT FABRICATORS SPOOL PRICE DWG NUMBERS

**O.A.**



REVISIONS		DATE		BY		CHECKED	
NO.	DESCRIPTION	DATE	BY	DATE	BY	DATE	BY
1	ISSUED FOR CONSTRUCTION	11/14/83	...	...	...	...	...
2	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...

NORTHSTAR UTILITIES SERVICE CO.	
NORTHSTAR NUCLEAR ENERGY CO.	
SHELLS CODE: NUC PWRD STA UNIT 3	
LOW PRESSURE SAFETY INJECTION LOOP 'S' ZONE CODE	
DATE: 11/14/83	
BY: [Signature]	
CHECKED: [Signature]	
PROJECT: AREA 1 ZONE 12-20929	
NO.	DESCRIPTION
1	ISSUED FOR CONSTRUCTION
2	...
3	...
4	...
5	...
6	...
7	...
8	...
9	...
10	...



LEGEND  
 WATER VALVE  
 WATER HYDRANT  
 WATER METER

KEY

407 254 F W 30
407 254 F W 31
407 254 F W 32
407 254 F W 33
407 254 F W 34
407 254 F W 35
407 254 F W 36
407 254 F W 37
407 254 F W 38
407 254 F W 39
407 254 F W 40

NOTES  
 1. SPECIAL NOTES REGARDING MATERIALS SPECIFICATIONS  
 2. SPECIAL NOTES REGARDING INSTALLATION

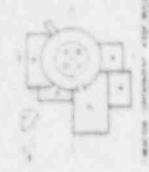
OA

NORTHWEST UTILITIES SERVICE CO	
PROJECT NO. 10000000000000000000	
DATE: 10/15/2000	
DRAWN BY: J. J. JONES	
CHECKED BY: M. M. MORGAN	
APPROVED BY: K. K. KEENE	
SCALE: AS SHOWN	
SHEET NO. 1 OF 1	
JOB NO. 10000000000000000000	
JOB NAME: 10000000000000000000	
JOB ADDRESS: 10000000000000000000	
JOB PHONE: 10000000000000000000	
JOB FAX: 10000000000000000000	
JOB E-MAIL: 10000000000000000000	
JOB WEBSITE: 10000000000000000000	
JOB COMMENTS: 10000000000000000000	



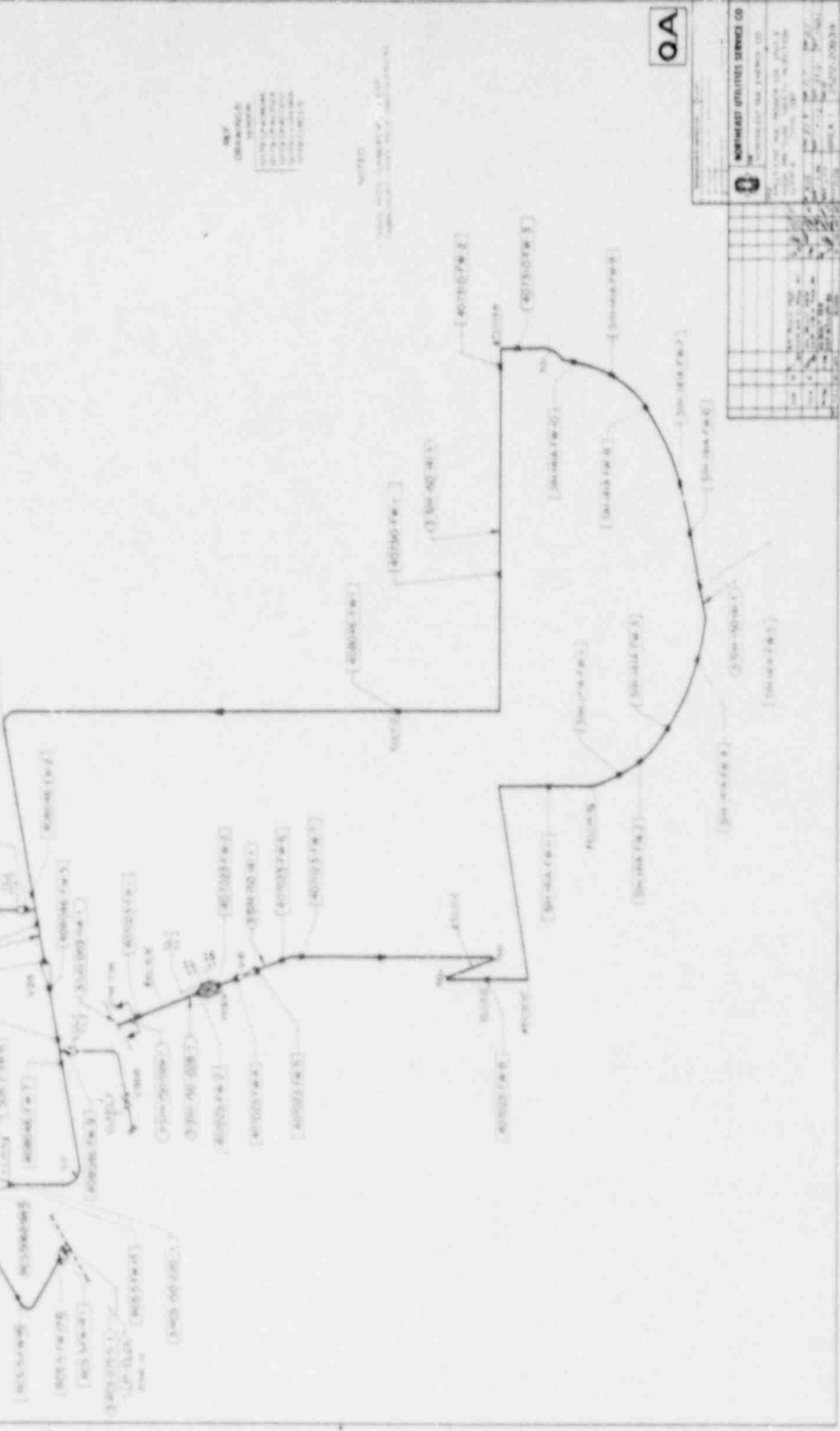
**LEGEND**

(Symbol: Circle with cross) 15" WATER MAIN  
 (Symbol: Circle with dot) 12" WATER MAIN  
 (Symbol: Circle with dash) 8" WATER MAIN  
 (Symbol: Circle with vertical lines) 6" WATER MAIN  
 (Symbol: Circle with horizontal lines) 4" WATER MAIN  
 (Symbol: Circle with diagonal lines) 2" WATER MAIN  
 (Symbol: Circle with 'X') VALVE  
 (Symbol: Circle with 'V') HYDRANT  
 (Symbol: Circle with 'M') METER  
 (Symbol: Circle with 'W') WELLS  
 (Symbol: Circle with 'T') TAPING POINT  
 (Symbol: Circle with 'P') PRESSURE POINT  
 (Symbol: Circle with 'S') SERVICE POINT



**NOTES:**

1. THIS DRAWING IS A PART OF THE PROJECT AND SHALL BE USED ONLY FOR THE PURPOSES SPECIFIED IN THE CONTRACT DOCUMENTS.  
 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF SEASIDE UTILITIES DEPARTMENT STANDARDS AND SPECIFICATIONS.  
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF SEASIDE UTILITIES DEPARTMENT.



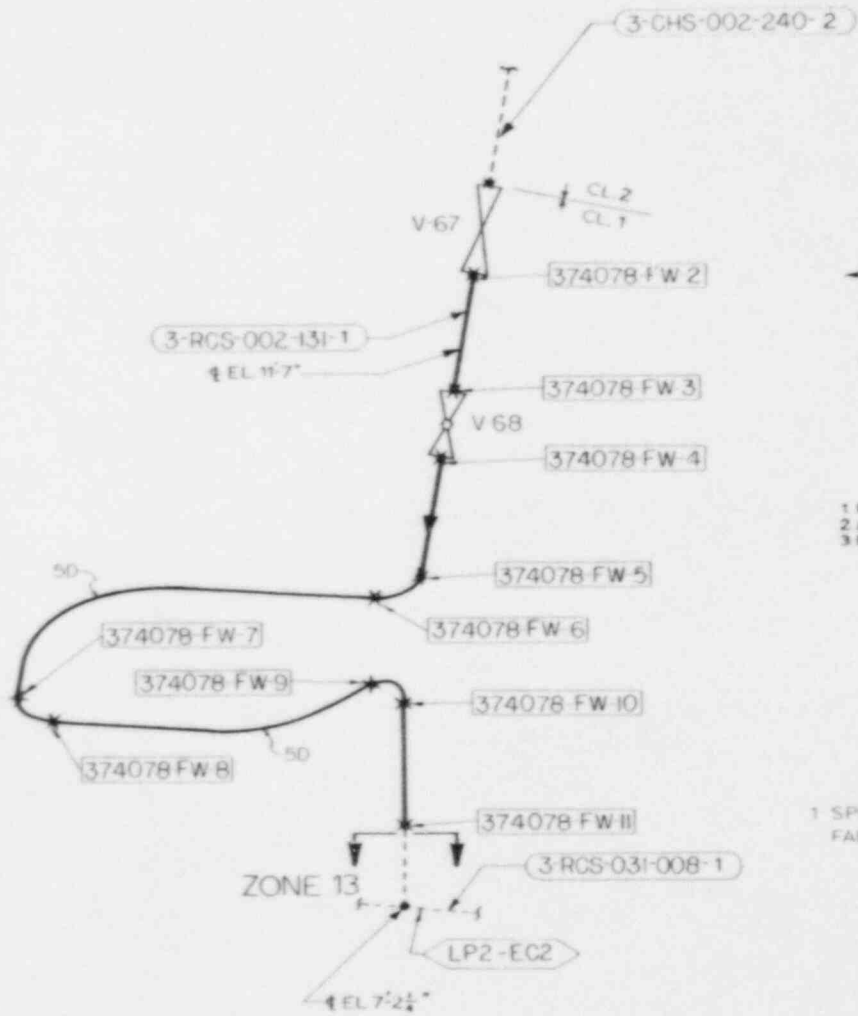
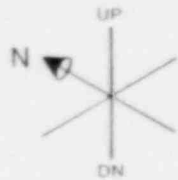
**NOTES:**

1. THIS DRAWING IS A PART OF THE PROJECT AND SHALL BE USED ONLY FOR THE PURPOSES SPECIFIED IN THE CONTRACT DOCUMENTS.  
 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF SEASIDE UTILITIES DEPARTMENT STANDARDS AND SPECIFICATIONS.  
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF SEASIDE UTILITIES DEPARTMENT.

**0 NORTHWEST UTILITIES SERVICE CO**

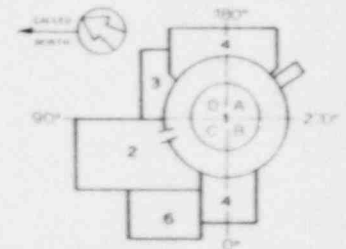
1155 N. PARKWAY  
 SEASIDE, CALIFORNIA 92138  
 PHONE: (619) 437-2100  
 FAX: (619) 437-2101  
 WWW: WWW.NWUTIL.COM

**0A**



LEGEND

- LINK DESIGNATION
- SPOOL PIECE NUMBER
- SHOP WELD - \*
- FIELD WELD - X
- WELD DESIGNATION



- 1 REACTOR CONTAINMENT
- 2 AUXILIARY BUILDING
- 3 FUEL BUILDING
- 4 ESF BUILDING & MAIN STEAM VALVE BLDG
- 5 CONTROL & SERVICE BLDG
- 6 CONTROL & SERVICE BLDG

REF DRAWINGS

VENDOR

12179-CP-374078

12179-EP-74C

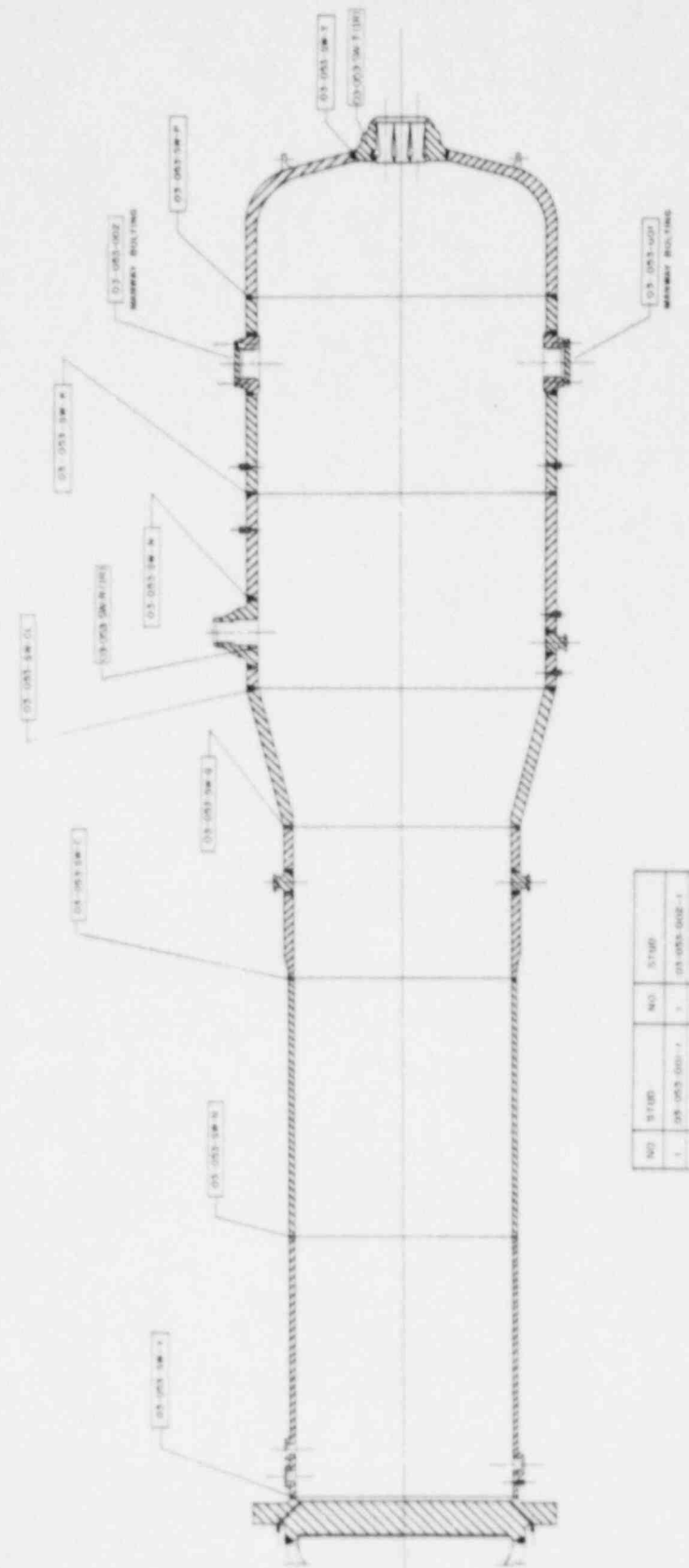
NOTES

- 1 SPOOL PIECE NUMBERS REPRESENT FABRICATORS SPOOL PIECE DWG NUMBERS

Q.A

REVISIONS			
NO.	DATE	BY	DESCRIPTION

NORTHEAST UTILITIES SERVICE CO.	
NORTHEAST NUC ENERGY CO.	
PROJECT:	MILLSTONE NUC PWR STA UNIT 3
PACKAGE:	CHEMICAL & VOL CONTROL
LOOP:	ZONE-D49 LOOP-B
AREA:	AREA 1
DWG NO.:	20-212-20951



NO	WELD	NO	WELD
1	05-053-500-1	1	05-053-502-1
2	05-053-500-2	2	05-053-502-2
3	05-053-500-3	3	05-053-502-3
4	05-053-500-4	4	05-053-502-4
5	05-053-500-5	5	05-053-502-5
6	05-053-500-6	6	05-053-502-6
7	05-053-500-7	7	05-053-502-7
8	05-053-500-8	8	05-053-502-8
9	05-053-500-9	9	05-053-502-9
10	05-053-500-10	10	05-053-502-10
11	05-053-500-11	11	05-053-502-11
12	05-053-500-12	12	05-053-502-12
13	05-053-500-13	13	05-053-502-13
14	05-053-500-14	14	05-053-502-14
15	05-053-500-15	15	05-053-502-15
16	05-053-500-16	16	05-053-502-16
17	05-053-500-17	17	05-053-502-17
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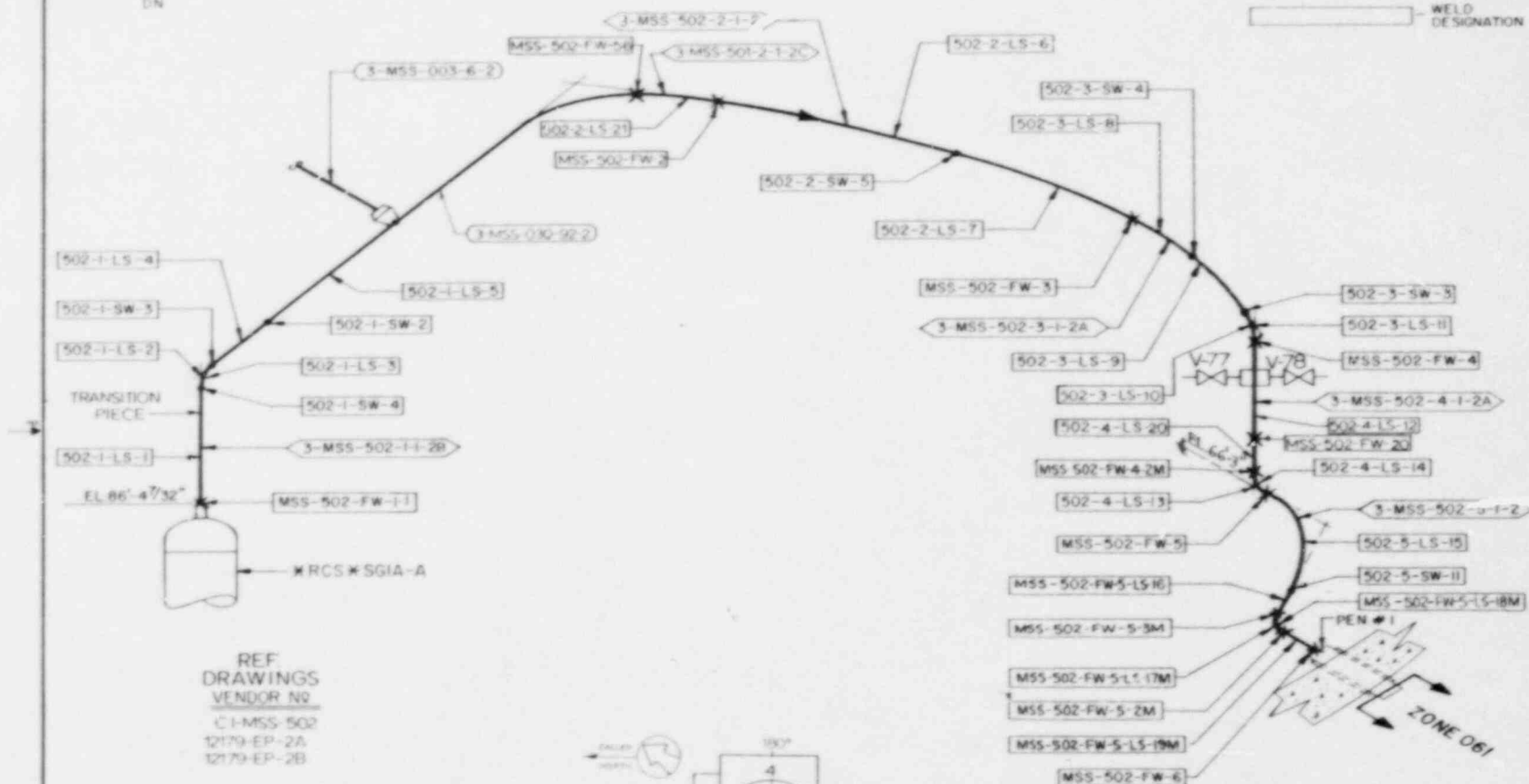
0A

NORTH EAST UTILITIES SERVICE CO.	
MILLSTONE NUC PWR STA UNIT 3	
STEAM GENERATOR-1A	
ZONE - 053	
DATE	NO. 1
BY	REV.
APPROVED	DATE
PROJECT	NO. 1
SCALE	DATE
DESIGNED	DATE
CHECKED	DATE
DRAWN	DATE
DATE	NO. 1
BY	REV.
APPROVED	DATE
PROJECT	NO. 1
SCALE	DATE
DESIGNED	DATE
CHECKED	DATE
DRAWN	DATE



LEGEND

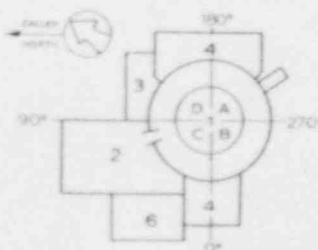
- LINE DESIGNATION
- SPOOL PIECE NUMBER
- SHOP WELD
- FIELD WELD
- WELD DESIGNATION



REF. DRAWINGS  
 VENDOR NO  
 C-1-MSS-502  
 12179-EP-2A  
 12179-EP-2B

NOTES

- 1 SPOOL PIECE NUMBERS REPRESENT FABRICATORS SPOOL PIECE DWG NUMBERS
- 2 ALL LONG SEAM EXAMINATIONS WILL BE 2.5T FROM INTERSECTING CIRCUMFERENTIAL WELDS



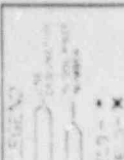
- 1 REACTOR CONTAINMENT
- 2 AUXILIARY BUILDING
- 3 FUEL BUILDING
- 4 ESF BUILDING & MAIN STEAM VALVE BLDG
- 5 CONTROL & SERVICE BUILDING

QA

REVISIONS DURING CONSTRUCTION		DATE	BY	APP'D

NORTHEAST UTILITIES SERVICE CO.		NORTHEAST NUC. ENERGY CO.	
NO.	DATE	DESCRIPTION	BY
1	12/22/88	ISSUED FOR CONSTRUCTION	...
2	...	...	...





1 REACTOR COMPARTMENT  
2 AUXILIARY BUILDING  
3 FUEL BUILDING  
4 EXP. BUILDING &  
MAIN STEAM VALVE  
5 CONTROL & SERVICE BLDG

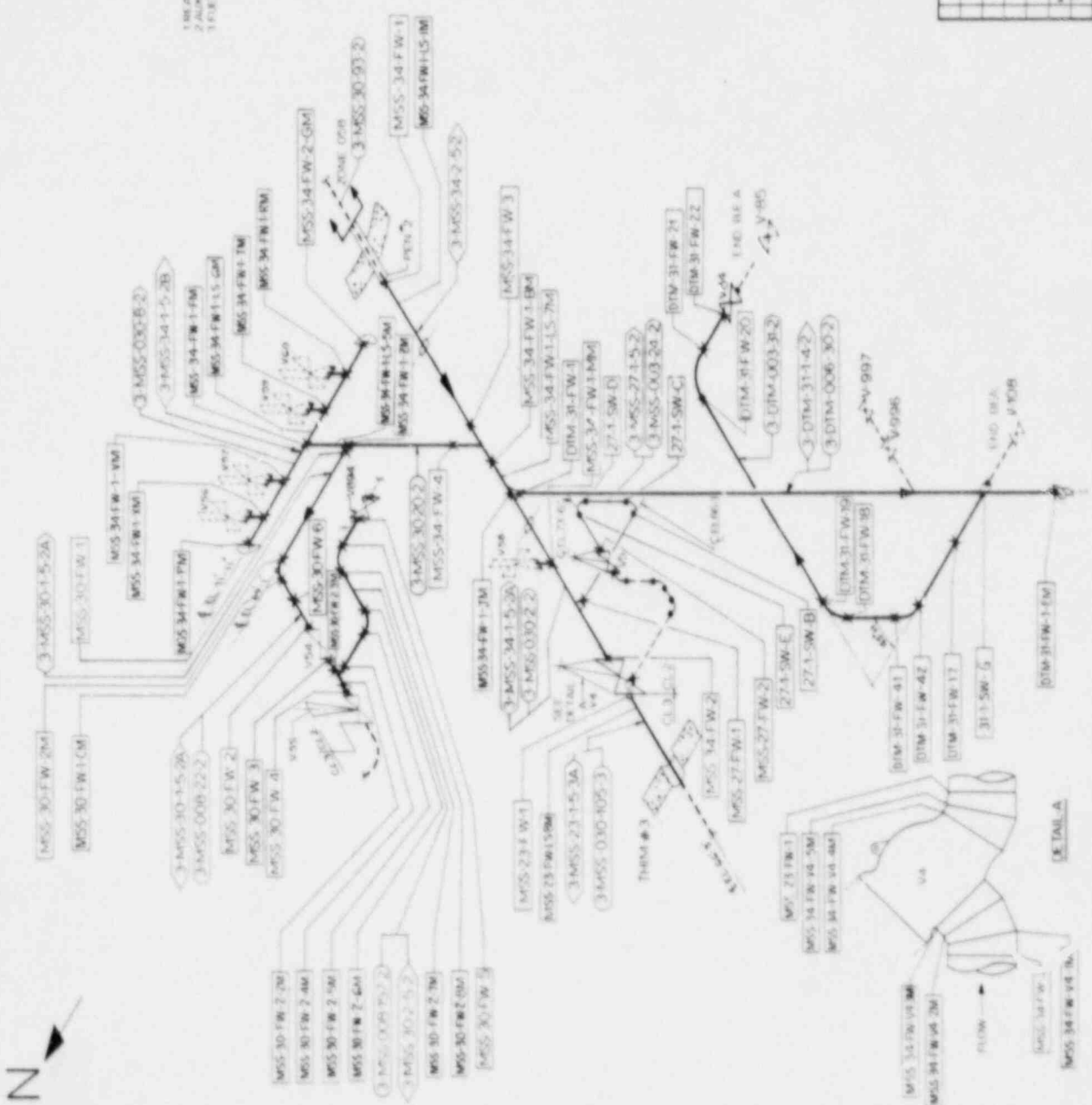
- REF DRAWINGS  
VENTHOOR
- 12179-C1-MSS-34
  - 12179-C1-MSS-30
  - 12179-C1-DIM-31
  - 12179-C1-MSS-25
  - 12179-C1-MSS-27
  - 12179-E3P-20
  - 12179-E3P-26
  - 12179-E3P-RTB

NOTES

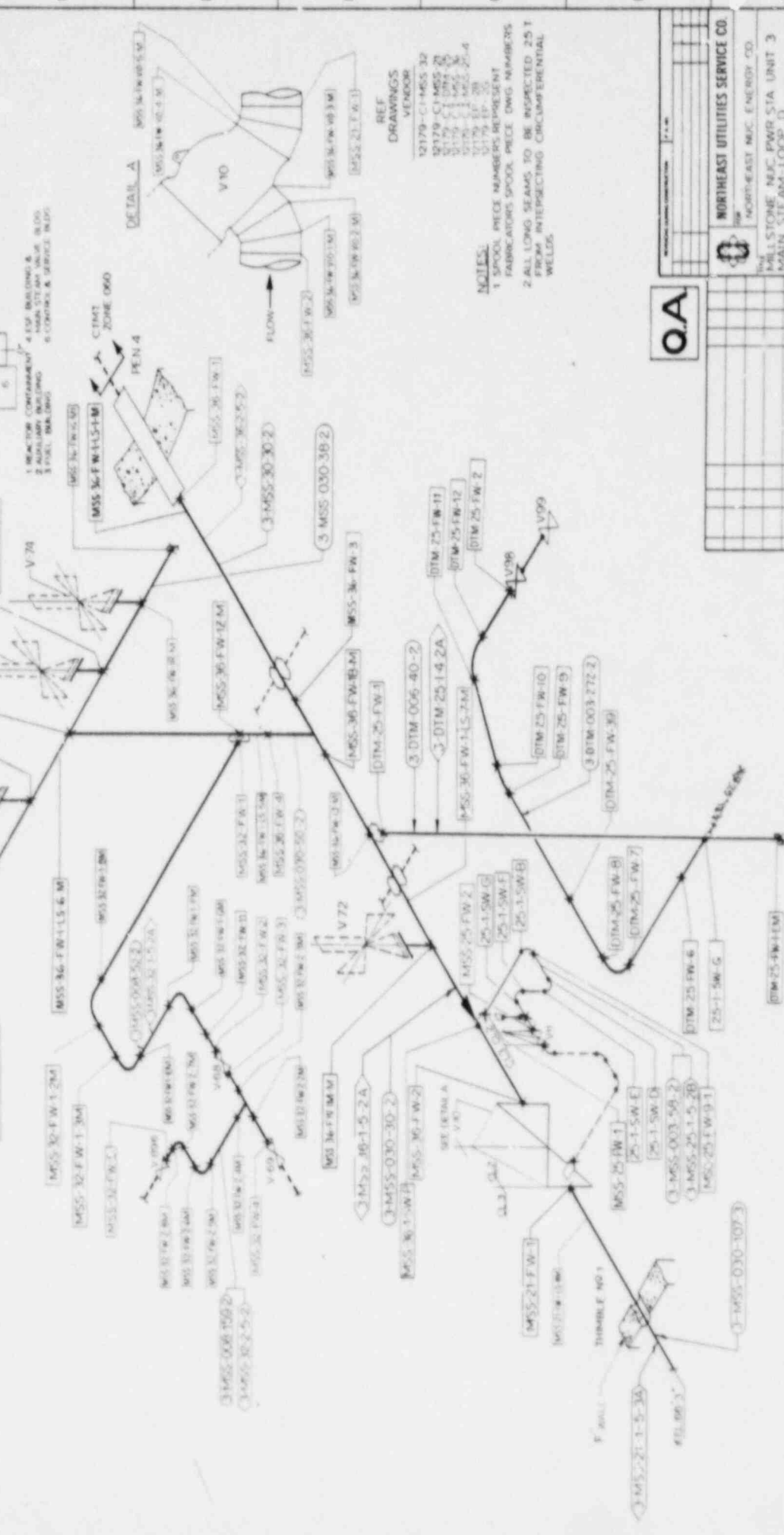
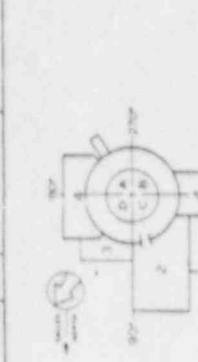
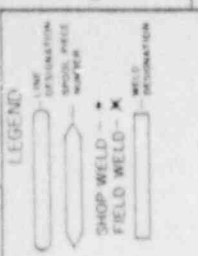
1. WOOD-BEET NESTING REVISIONS. FABRICATORS SHOULD CHECK 20007 FOR OTHERS.
2. ALL LOGS SHOULD BE RECORDED 25' FROM PROJECTING CIRCUMFERENTIAL WELDS.

QA

NORTHEAST UTILITIES SERVICE CO	
NORTHEAST NEI ENERGY CO	
MILLSBORO NUC PWR STA UNIT 3	
MAIN STEAM LOOP B	
OUTSIDE CTMT - ZONE 062	
DATE	2/28/76
BY	WJA
CHECKED BY	WJA
SCALE	AS SHOWN
PROJECT NO.	25212-20976



DETAIL A



REF DRAWINGS VENDOR

12179-C-1455-32
12179-C-1455-32
12179-C-1455-32
12179-C-1455-32
12179-C-1455-32
12179-C-1455-32
12179-C-1455-32
12179-C-1455-32
12179-C-1455-32
12179-C-1455-32
12179-C-1455-32

NOTES:  
 1. SPOOL PIECE NUMBERS REPRESENT FABRICATORS SPOOL PIECE DMS NUMBERS.  
 2. ALL LONG SEAMS TO BE INSPECTED 25% FROM INTERSECTING CIRCUMFERENTIAL WELDS.

QA

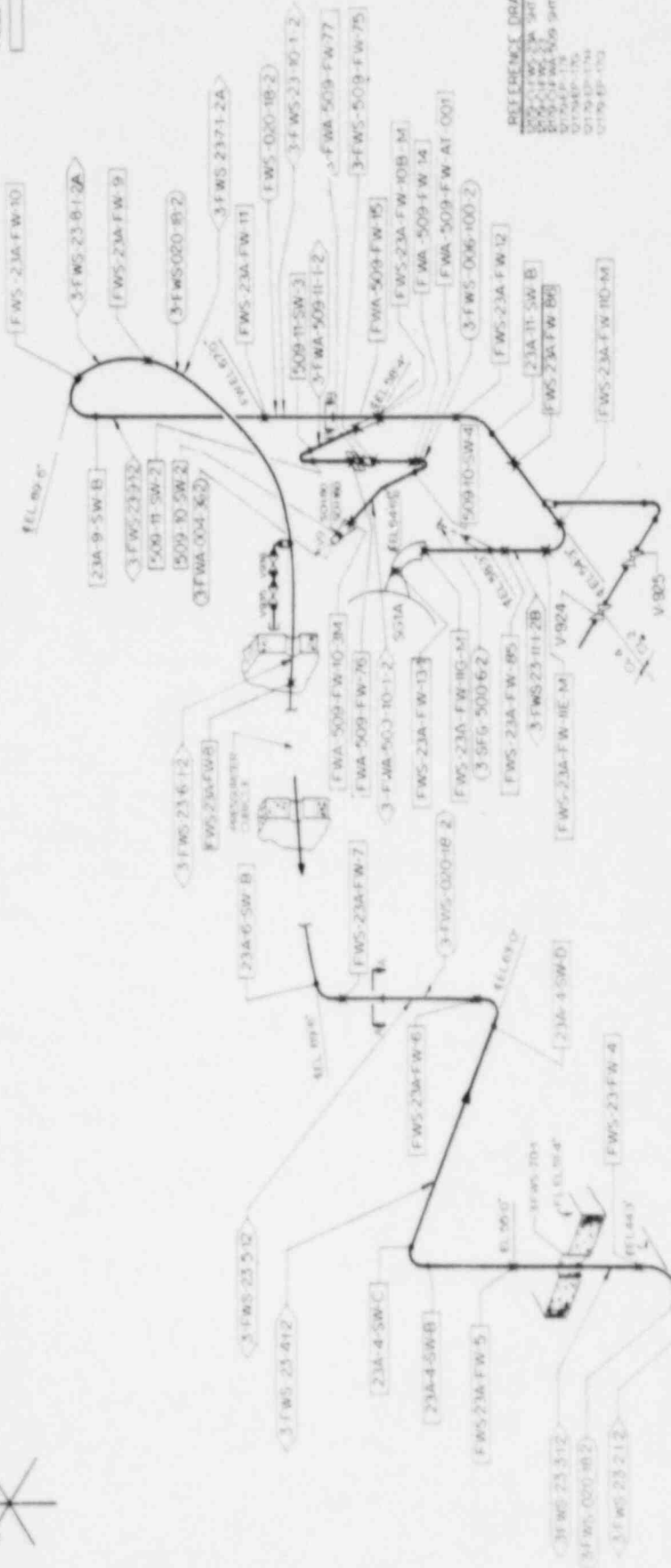
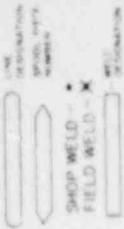
NORTHEAST UTILITIES SERVICE CO.

MILLSTONE NUC. PWR STA UNIT 3  
 MAIN STEAM LOOP D  
 OUTSIDE CTMAT ZONE 0B4

DATE	NO.	BY	CHKD	APP'D
12/15/78	1	J. J. [unclear]	[unclear]	[unclear]
12/15/78	2	[unclear]	[unclear]	[unclear]
12/15/78	3	[unclear]	[unclear]	[unclear]
12/15/78	4	[unclear]	[unclear]	[unclear]
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12/15/78	10	[unclear]	[unclear]	[unclear]
12/15/78	11	[unclear]	[unclear]	[unclear]
12/15/78	12	[unclear]	[unclear]	[unclear]
12/15/78	13	[unclear]	[unclear]	[unclear]
12/15/78	14	[unclear]	[unclear]	[unclear]
12/15/78	15	[unclear]	[unclear]	[unclear]
12/15/78	16	[unclear]	[unclear]	[unclear]
12/15/78	17	[unclear]	[unclear]	[unclear]
12/15/78	18	[unclear]	[unclear]	[unclear]
12/15/78	19	[unclear]	[unclear]	[unclear]
12/15/78	20	[unclear]	[unclear]	[unclear]
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12/15/78	22	[unclear]	[unclear]	[unclear]
12/15/78	23	[unclear]	[unclear]	[unclear]
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12/15/78	25	[unclear]	[unclear]	[unclear]
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12/15/78	32	[unclear]	[unclear]	[unclear]
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12/15/78	35	[unclear]	[unclear]	[unclear]
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12/15/78	40	[unclear]	[unclear]	[unclear]
12/15/78	41	[unclear]	[unclear]	[unclear]
12/15/78	42	[unclear]	[unclear]	[unclear]
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12/15/78	44	[unclear]	[unclear]	[unclear]
12/15/78	45	[unclear]	[unclear]	[unclear]
12/15/78	46	[unclear]	[unclear]	[unclear]
12/15/78	47	[unclear]	[unclear]	[unclear]
12/15/78	48	[unclear]	[unclear]	[unclear]
12/15/78	49	[unclear]	[unclear]	[unclear]
12/15/78	50	[unclear]	[unclear]	[unclear]



LEGEND



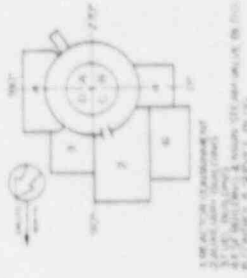
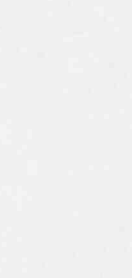
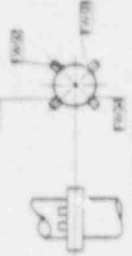
**REFERENCE DRAWINGS VENDOR**

300-21 WS-23A SW 16.2  
 300-21 WS-23A SW 16.2  
 300-21 WS-23A SW 16.2  
 300-21 WS-23A SW 16.2  
 300-21 WS-23A SW 16.2

**NOTES**

1. CHECK WELD REPAIRS REPRESENT  
 FABRICATORS, SPEC. INETS. DWG. NO. 001 MS

**QA**



**NORTHEAST UTILITIES SERVICE CO**

NORTHEAST NUC ENERGY CO

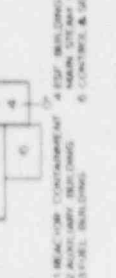
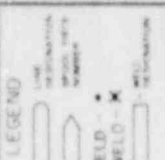
HAMILTON NUC POWER STATION UNIT 3

MAIN & AUXILIARY FEEDWATER SYSTEMS

LOOP 1A INSIDE CTRMT ZONE 0805

NO.	DATE	REVISION
1	08/15/01	ISSUE FOR CONSTRUCTION
2	08/15/01	ISSUE FOR CONSTRUCTION
3	08/15/01	ISSUE FOR CONSTRUCTION
4	08/15/01	ISSUE FOR CONSTRUCTION
5	08/15/01	ISSUE FOR CONSTRUCTION
6	08/15/01	ISSUE FOR CONSTRUCTION
7	08/15/01	ISSUE FOR CONSTRUCTION
8	08/15/01	ISSUE FOR CONSTRUCTION
9	08/15/01	ISSUE FOR CONSTRUCTION
10	08/15/01	ISSUE FOR CONSTRUCTION
11	08/15/01	ISSUE FOR CONSTRUCTION
12	08/15/01	ISSUE FOR CONSTRUCTION
13	08/15/01	ISSUE FOR CONSTRUCTION
14	08/15/01	ISSUE FOR CONSTRUCTION
15	08/15/01	ISSUE FOR CONSTRUCTION
16	08/15/01	ISSUE FOR CONSTRUCTION
17	08/15/01	ISSUE FOR CONSTRUCTION
18	08/15/01	ISSUE FOR CONSTRUCTION
19	08/15/01	ISSUE FOR CONSTRUCTION
20	08/15/01	ISSUE FOR CONSTRUCTION

1. ALL WELDS TO BE MADE BY  
 WELDER CERTIFIED TO  
 ASME SECTION 8 (OR  
 ASME SECTION 9) AND  
 QUALIFIED TO DWG. NO. 001



1 REACTOR CONTAINER  
2 REACTOR CONTAINER  
3 REACTOR CONTAINER  
4 REACTOR CONTAINER  
5 REACTOR CONTAINER  
6 REACTOR CONTAINER

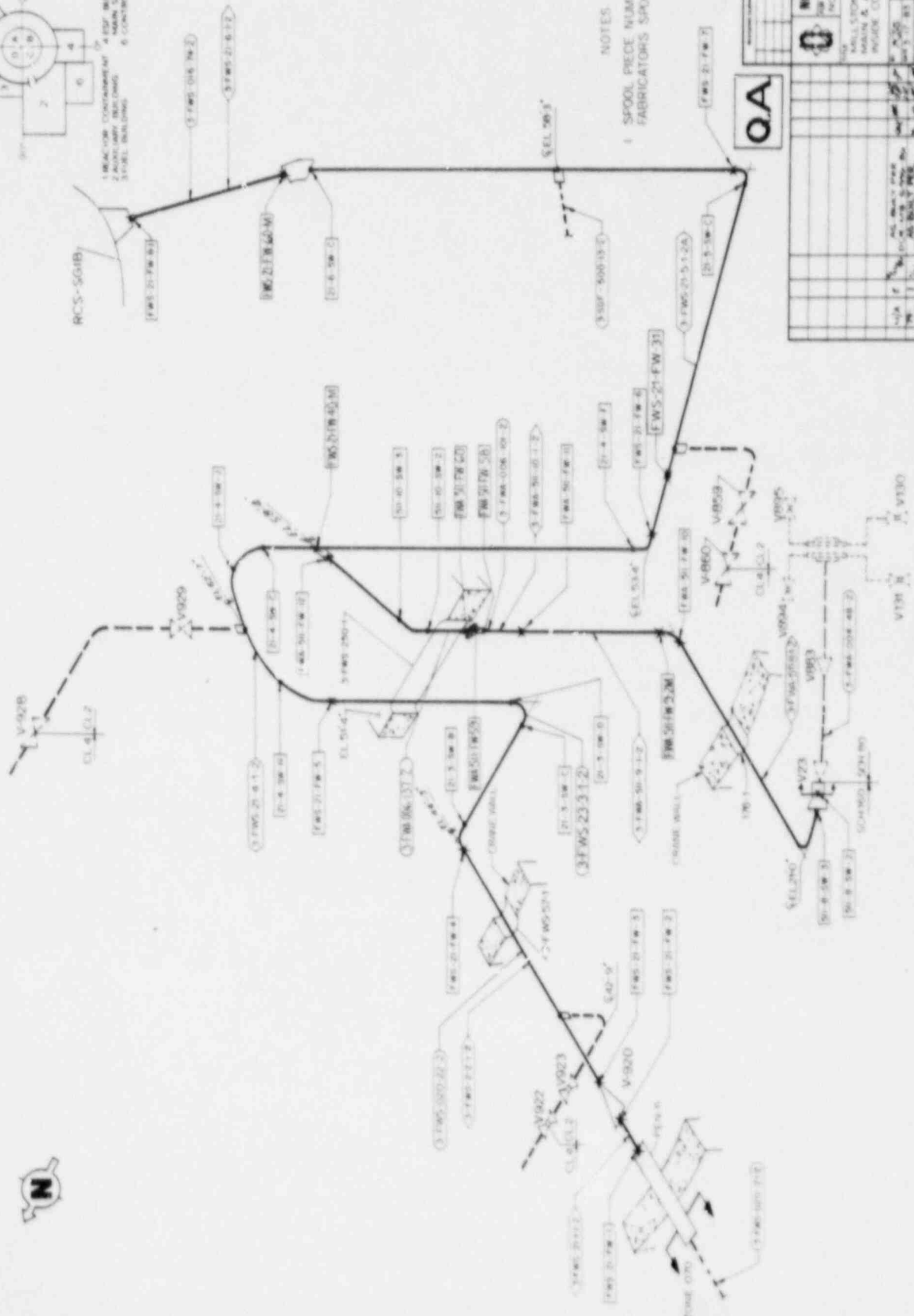
REF DRAWINGS VENDOR

02779	CI-FWS-21
02779	CI-FMA-203
02779	CI-FMA-205
02779	CI-FMA-207
02779	CI-FMA-209
02779	CI-FMA-211
02779	CI-FMA-213

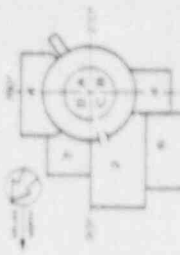
NOTES  
1 SPOOL PIECE NUMBERS REPRESENT FABRICATORS SPOOL PIECE DWG NUMBERS

QA

NORTHEAST UTILITIES SERVICE CO	
NORTHEAST PAC. ENERGY CO	
KALLSTONE PAC. UNIT 3	
MAIN & AUX FEEDBACK SPS LOOP 18	
PIECE CONTAINER ZONE 000	
DATE	12/15/83
BY	...
CHECKED	...
APPROVED	...
AREA	1
DWG NO	20010-20064



LEGEND



1. REACTOR CONTAINMENT SYSTEM  
4.17% HELIUM, A  
STAINLESS STEEL, 304  
4" (101.6 mm) DIA. PIPING

NOTES

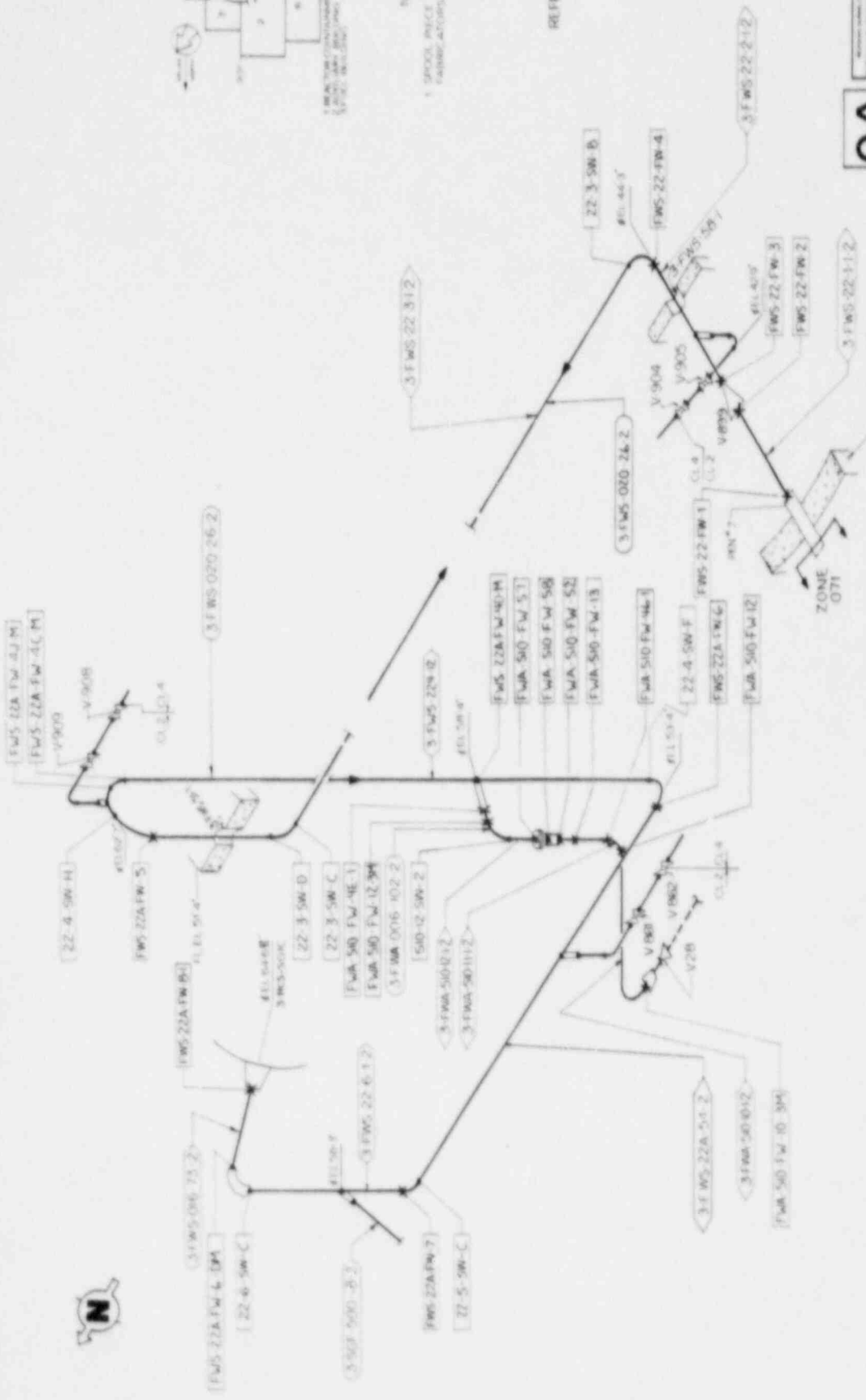
1. SPOOL, PIECE NUMBERS REFER TO  
FABRICATORS SPOOL, PIECE, DRAW NUMBERS.

REFERENCE DRAWINGS

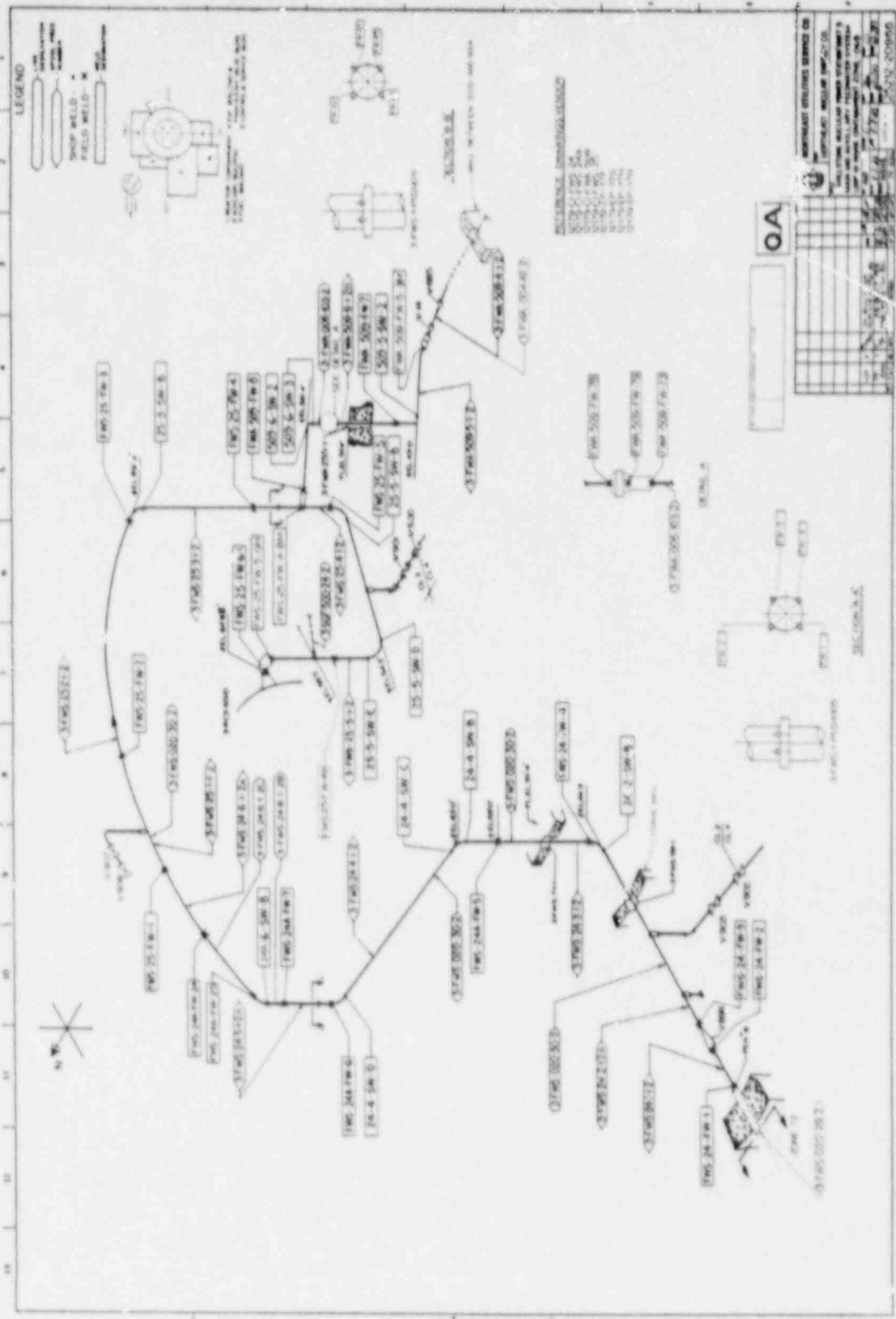
- VENDOR
- 1279-G-FW-22
  - 1279-G-FW-22A
  - 1279-G-FW-50
  - 1279-G-FW-51
  - 1279-G-FW-52
  - 1279-G-FW-53
  - 1279-G-FW-54

OA

NORTHEAST UTILITIES SERVICE CO.	
NORTHEAST NUCLEAR ENERGY CO.	
MILLSTONE NUCLEAR POWER STATION UNIT 3	
MAIN AND AUXILIARY FEEDWATER SYSTEM	
LOOP 'C' INSIDE CONTAINMENT ZONE ON 7	
NO.	DESCRIPTION
1	WELD
2	PIPE
3	VALVE
4	RELAY
5	CONTAINER
6	INSTRUMENT
7	WELD
8	PIPE
9	VALVE
10	RELAY
11	CONTAINER
12	INSTRUMENT
13	WELD
14	PIPE
15	VALVE
16	RELAY
17	CONTAINER
18	INSTRUMENT
19	WELD
20	PIPE
21	VALVE
22	RELAY
23	CONTAINER
24	INSTRUMENT
25	WELD
26	PIPE
27	VALVE
28	RELAY
29	CONTAINER
30	INSTRUMENT
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32	PIPE
33	VALVE
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36	INSTRUMENT
37	WELD
38	PIPE
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108	INSTRUMENT
109	WELD
110	PIPE
111	VALVE
112	RELAY
113	CONTAINER
114	INSTRUMENT
115	WELD
116	PIPE
117	VALVE
118	RELAY
119	CONTAINER
120	INSTRUMENT

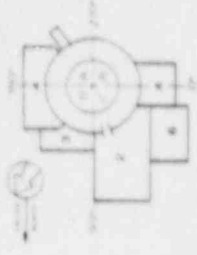


ZONE 071



SHEET NO. 0A  
 PROJECT NO. 100-25-100-1  
 DRAWING NO. 100-25-100-1  
 DATE 10/1/50  
 DRAWN BY J. J. [unreadable]  
 CHECKED BY [unreadable]  
 APPROVED BY [unreadable]

MATERIALS SPECIFICATIONS  
 PIPE - 100-25-100-1  
 VALVE - 100-25-100-2  
 PUMP - 100-25-100-3  
 TANK - 100-25-100-4  
 WELD - 100-25-100-5  
 FITTING - 100-25-100-6  
 FLANGE - 100-25-100-7  
 GASKET - 100-25-100-8  
 BOLTS - 100-25-100-9  
 NUTS - 100-25-100-10

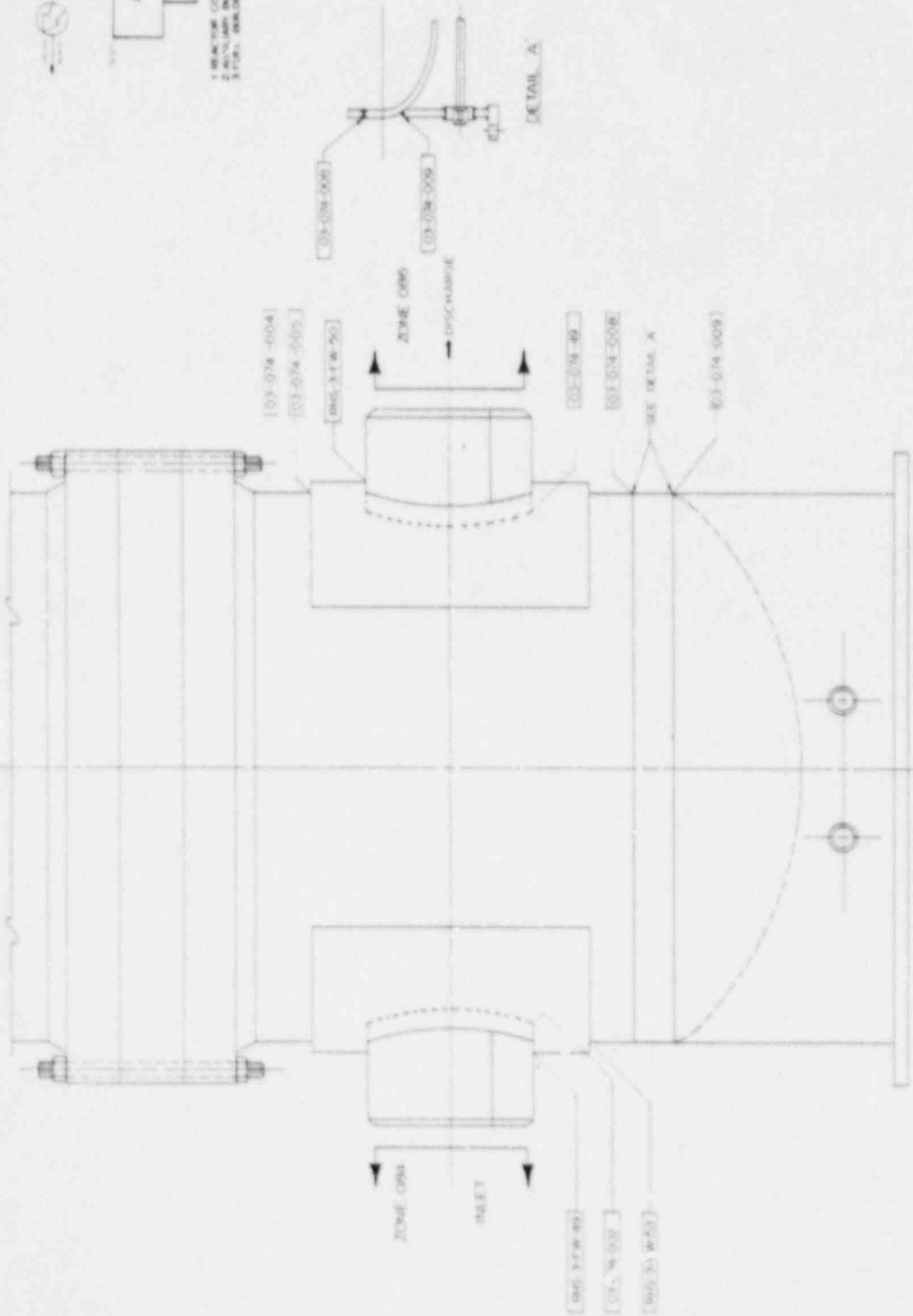


1. HEATING CONDENSATE 4. ELEC. BUILDING B.  
 2. ANTI-FLOOD BUILDING 5. CONTROL & SERVICE BLDG.  
 3. FURN. BUILDING

REF  
 DRAWINGS  
 VENDOR  
 2/04/2015 REV 03

NOTES:  
 1. LOCATED IN E-CF BUILDING  
 ELEVATION 9'-5 1/2"

0A



DETAIL A

NORTH EAST UTILITIES SERVICE CO			
NORTH EAST NUC ENERGY CO			
MILLSTONE NUC. PWR STA. UNIT 3			
VERTY RESIDUAL HEAT EXCHANGER (B)			
708-FT 0748			
NO.	REV.	DATE	BY
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2	1	10/20/11	WJG
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98	1	10/20/11	WJG
99	1	10/20/11	WJG
100	1	10/20/11	WJG

NORTH EAST UTILITIES SERVICE CO  
 NORTH EAST NUC ENERGY CO  
 MILLSTONE NUC. PWR STA. UNIT 3  
 VERTY RESIDUAL HEAT EXCHANGER (B)  
 708-FT 0748

NO. 1  
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**LEGEND**



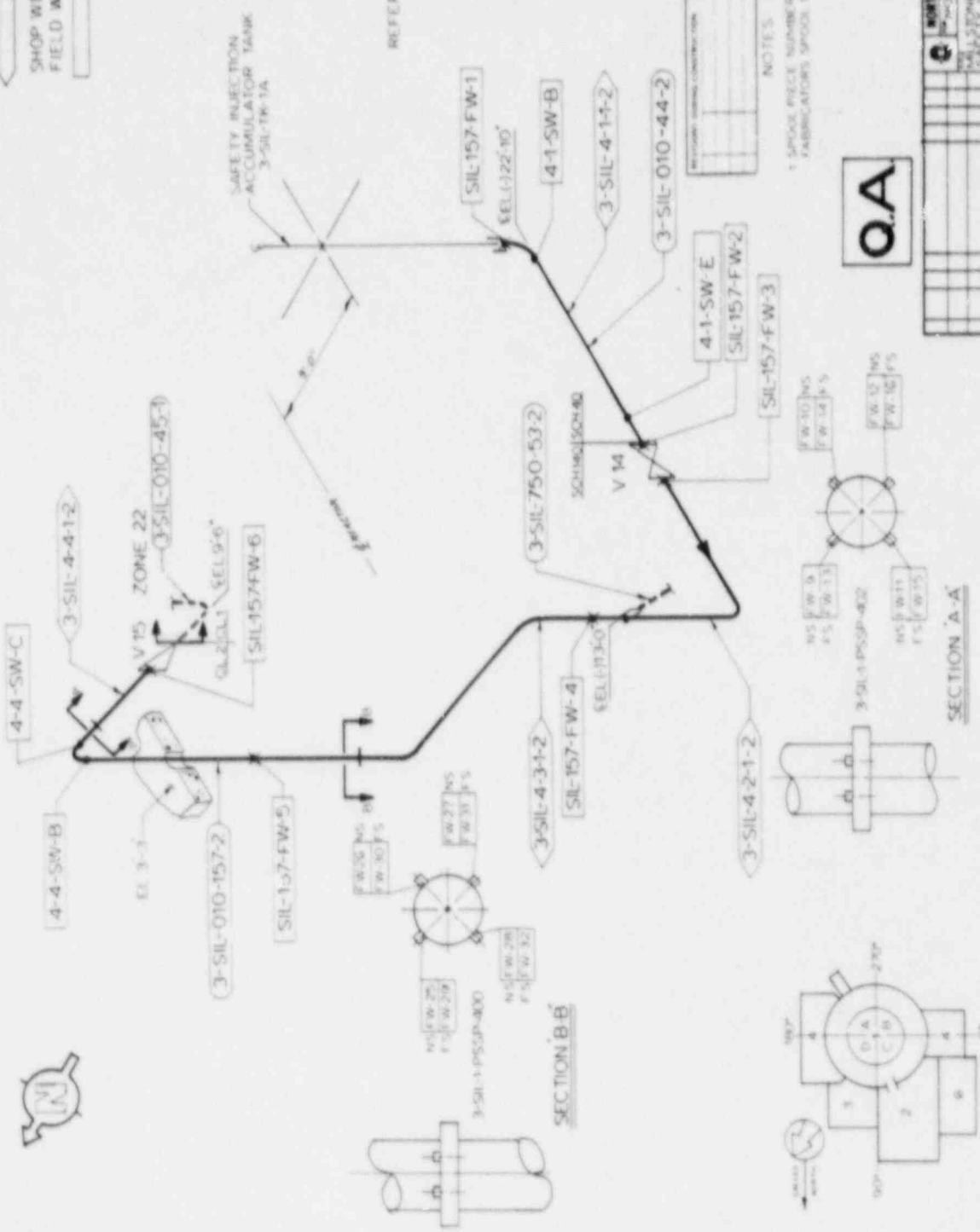
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 Q179-CI-SL-157  
 Q179-EP-82A  
 Q179-EP-82B

**NOTES**

1. SPOOL PIECE NUMBERS REPRESENT FABRICATORS SPOOL PIECE DWG. NUMBERS

**Q.A.**

NORTHWEST UTILITIES SERVICE CO.	
NORTHWEST NUC. ENERGY	
REVISIONS	
NO.	DATE
1	10/15/77
2	11/15/77
3	12/15/77
4	01/15/78
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99	12/15/85
100	01/15/86



- 1 REACTOR CONTAINMENT
- 2 AUXILIARY BUILDING
- 3 FUEL BUILDING
- 4 ESF BUILDING
- 5 MAIN STEAM VALVE BLDG
- 6 CONTROL & SERVICE BLDG



LEGEND



1. REACTOR CONTAINMENT A. ESP. MACHINERY & MAIN UTILITY VALVE ISLANDS  
 2. AUXILIARY BUILDING B. CONTROL & SERVICE ISLANDS  
 3. LABEL BUILDINGS

REF. DRAWINGS VENDOR

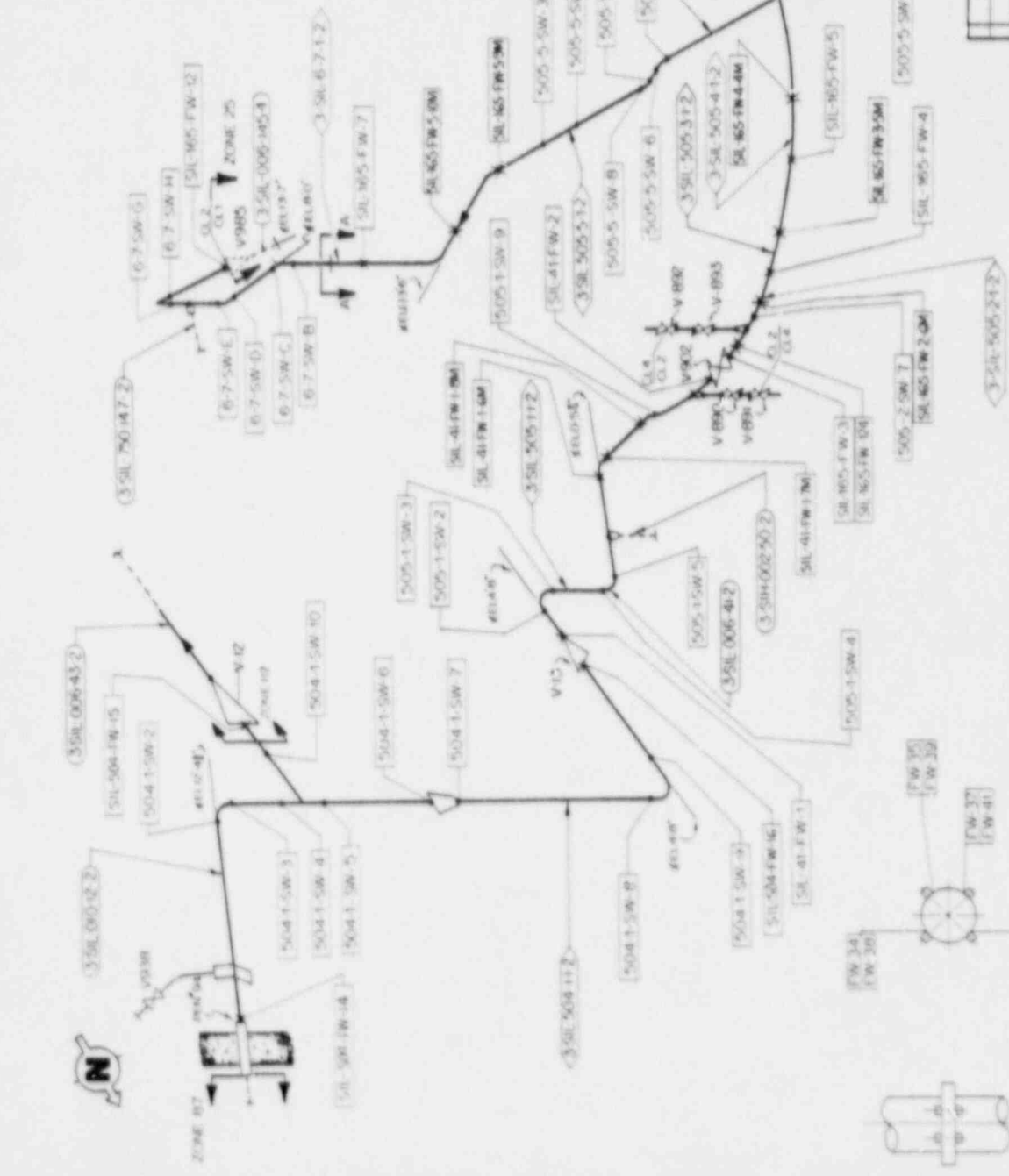
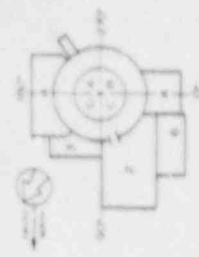
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- 12179-EP-107A
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NOTES

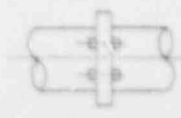
1. SPOOL PIECE NUMBERS REPRESENT FABRICATORS SPOOL PIECE DRG NUMBERS

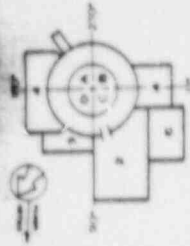
0A

NORTHEAST UTILITIES SLURICE CO	
NORTHEAST NUC ENERGY CO	
MILLSBORO NUC PWG STA UNIT 3	
SAFETY SECTION PEN NO 94	
LOOPS 314 ZONE 080	
DATE	2/27/72
BY	J. J. [unclear]
CHECKED BY	[unclear]
SCALE	AS SHOWN
AREA	AREA 1
PROJECT NO.	25212-00972



SECT. A-A





REACTOR COMPARTMENT  
 4. REACTOR CONTROL SYSTEM  
 5. REACTOR CONTROL SYSTEM  
 6. REACTOR CONTROL SYSTEM



LEGEND

1. SPOOL WELD - X  
 2. FIELD WELD - X

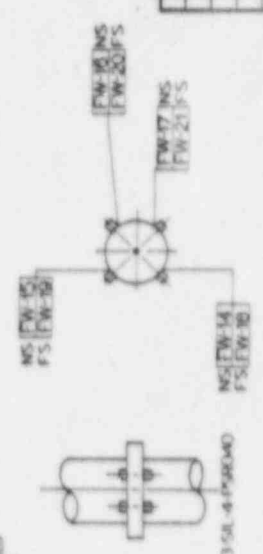
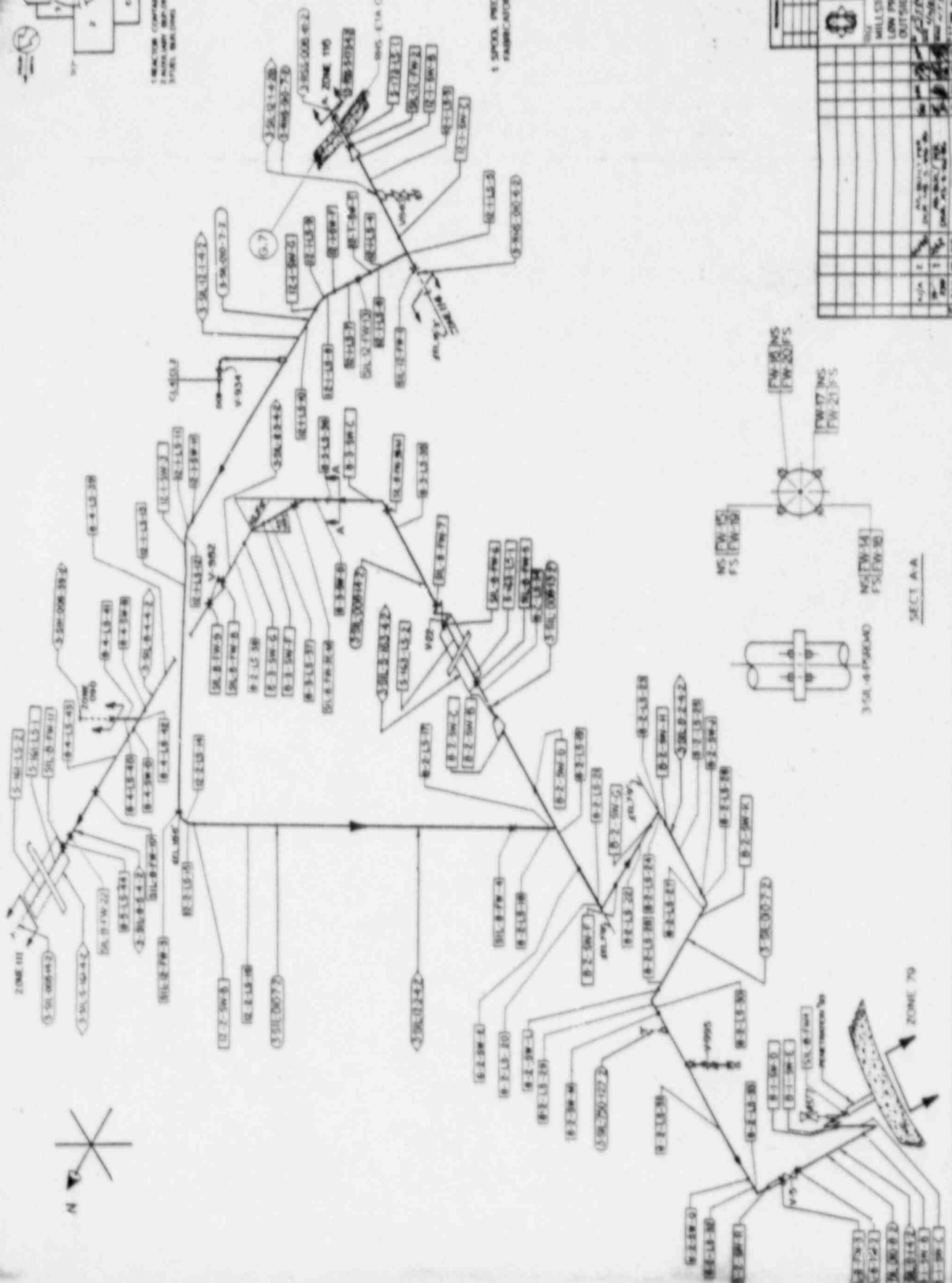
NOTES

1. SPOOL WELD MEMBERS REPRESENT FABRICATORS SPOOL WELD DWG NUMBERS.

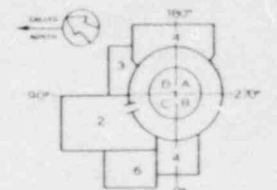
REF DRAWINGS  
 VENDOR  
 10179-CI-SL-6  
 10179-CI-SL-12  
 10179-EP-100  
 10179-EP-101

QA

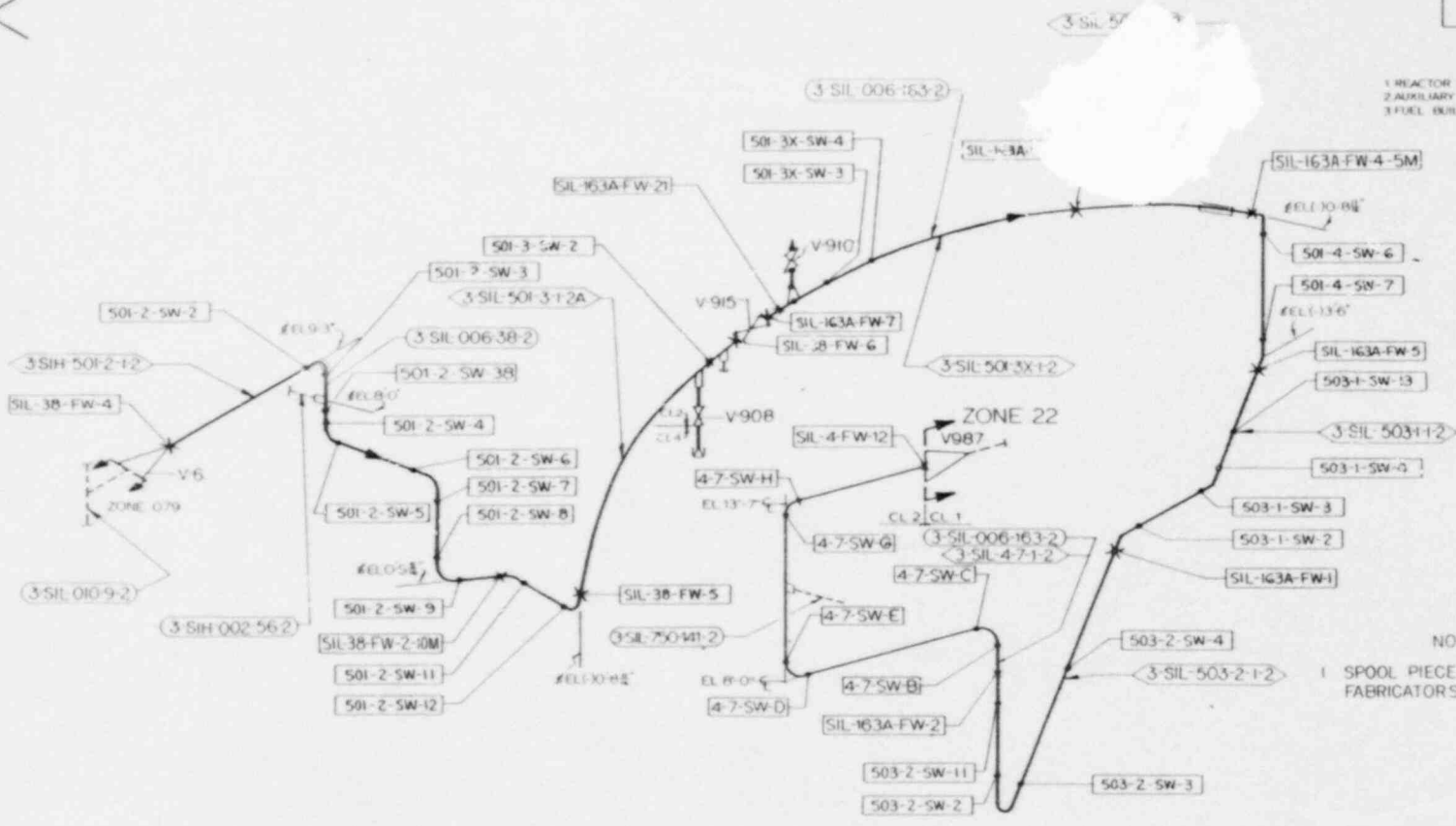
NORTHEAST UTILITIES SERVICE CO.	
NORTHEAST NUCLEAR ENERGY CO.	
MILLSTONE NUCLEAR POWER STATION UNIT 3	
LOW PRESSURE SAFETY INJECTION	
OUTSIDE CONTAINMENT ZONE, DRD	
DATE	10/11/79
BY	W. J. ...
CHKD	...
APP'D	...
AREA	AREA 4
NO	25-212-Z06GS



SECT A-A



1 REACTOR CONTAINMENT 4 ESF BUILDING  
 2 AUXILIARY BUILDING 5 MAIN STEAM VALVE BLDG  
 3 FUEL BUILDING 6 CONTROL BUILDING



**LEGEND**  
 [Symbol] LINE DESIGNATION  
 [Symbol] SPOOL PIECE NUMBER  
 [Symbol] SHOP WELD - \*  
 [Symbol] FIELD WELD - X  
 [Symbol] WELD DESIGNATION

**NOTES**  
 1 SPOOL PIECE NUMBERS REPRESENT FABRICATORS SPOOL PIECE DWG NUMBERS

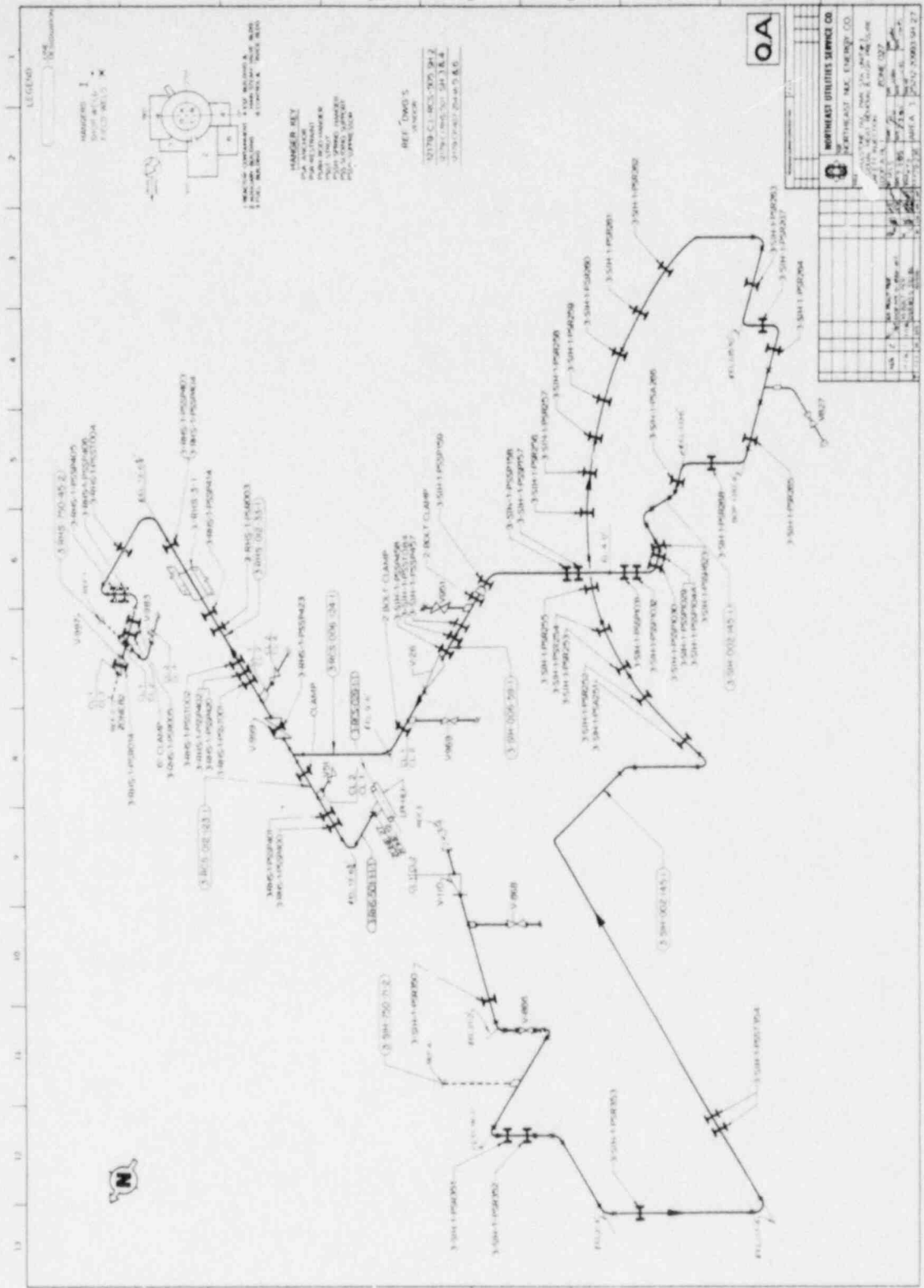
**REF DRAWINGS VENDOR**

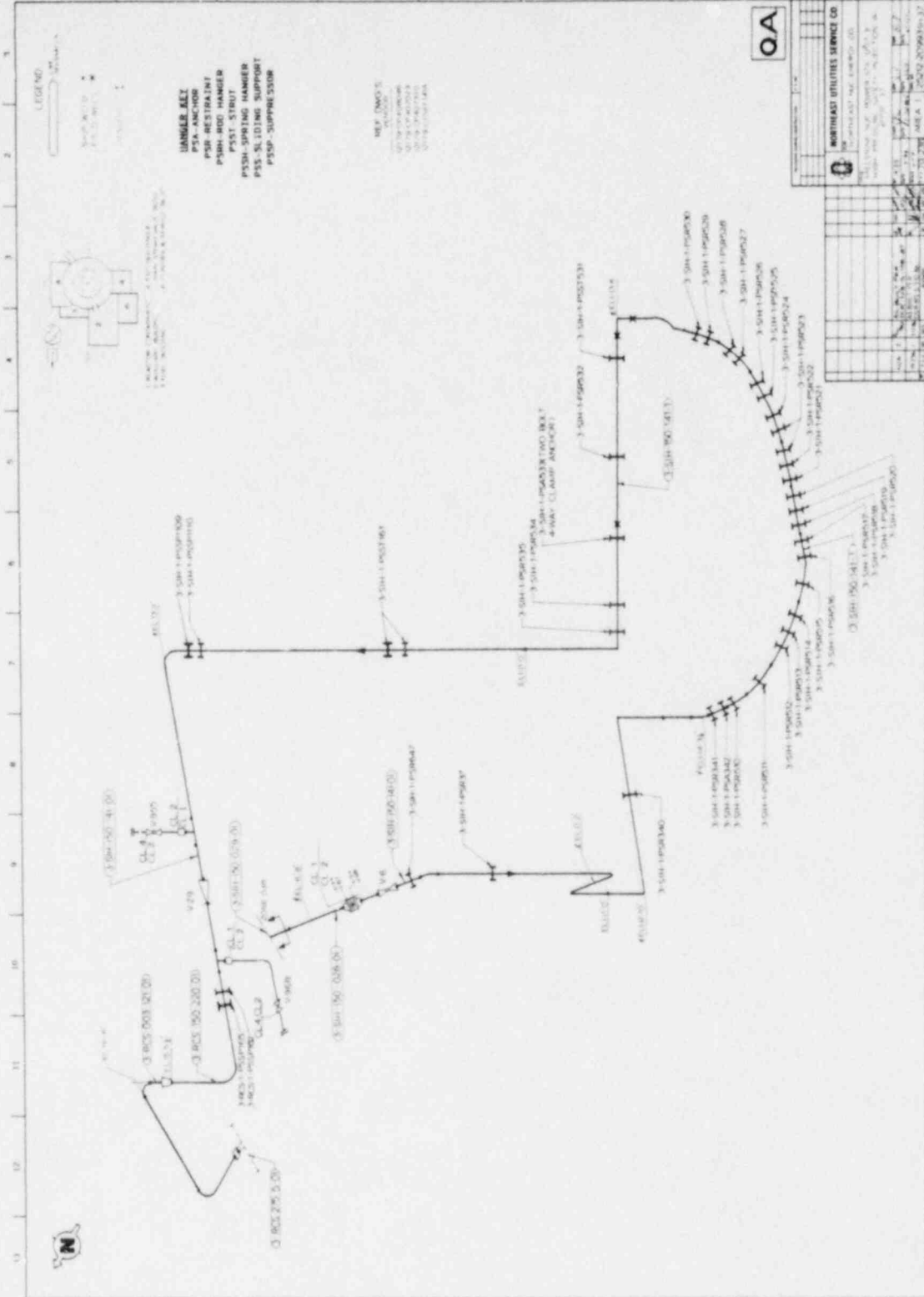
12179-CI-SIL-4
12179-CI-SIL-3B
12179-CI-SIL-163A
12179-EP-82B
12179-EP-107A
12179-EP-107C

**Q.A.**

NORTH EAST UTILITIES SERVICE CO. FOR NORTH EAST NUCLEAR ENERGY CO.		TITLE MILLSTONE NUCLEAR POWER STATION UNIT 3 LOW PRESSURE SAFETY INJECTION ZONE 091	
DATE 7/23/83	BY [Signature]	DATE 7/23/83	BY [Signature]
AREA 1		25212-2006B	







LEGEND

3-50H-1-PG0250

3-50H-1-PG0250

UNGLER KEY

PSA-ANCHOR

PSR-RESTRAINT

PSR-RIG HANGER

PSST-STROUT

PSH-SPRING HANGER

PSL-LOADING SUPPORT

PSOP-SUPPRESSOR

LEG 100'S

3-50H-1-PG0250

3-50H-1-PG0250

3-50H-1-PG0250

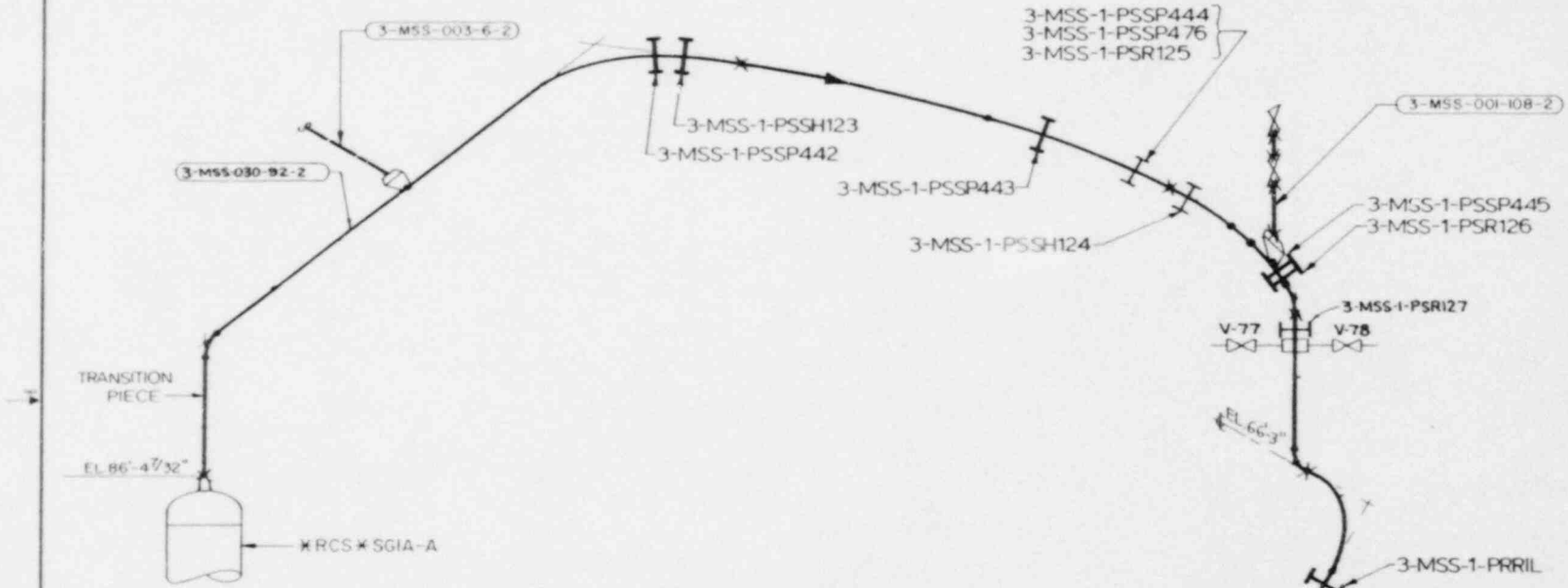
0A

NORTHSTAR UTILITIES SERVICE CO.	
10000 W. 10TH AVENUE, SUITE 100	
DENVER, COLORADO 80231	
PHONE: 303.733.1000	
FAX: 303.733.1001	
WWW.NORTHSTARUTILITIES.COM	
DATE:	10/11/00
TIME:	10:00 AM
BY:	J. J. [unreadable]
CHECKED BY:	[unreadable]
SCALE:	AS SHOWN
TITLE:	LEG 100'S
PROJECT:	[unreadable]
SHEET NO.:	0A
TOTAL SHEETS:	01

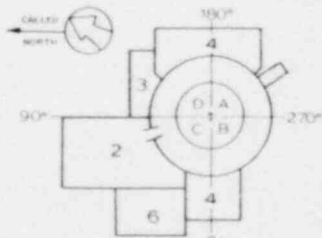


RANGER PCS  
 PSA-Archive  
 PSH-Reservoir  
 PSRH-Res. Tanker  
 PSHP-Stack  
 PSHR-Sprayer Nozzle  
 PSH-Stacking Support  
 PSH-Suppressor

**LEGEND**  
 LINE DESIGNATION  
 ● - SHOP WELD  
 ■ - FIELD WELD  
 HANGERS - I



REF DWG'S  
 VENDOR  
 CI-MSS-502

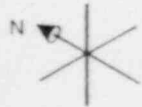


- 1 REACTOR CONTAINMENT
- 2 AUXILIARY BUILDING
- 3 FUEL BUILDING
- 4 ESF BUILDING & MAIN STEAM VALVE BLDG
- 6 CONTROL & SERVICE BLDG

**Q.A.**

REVISIONS DURING CONSTRUCTION		Y & NO

NORTH EAST UTILITIES SERVICE CO.	
NORTH EAST NUC ENERGY CO.	
MILLSTONE POINT NUC PWR STA. UNIT 3	
MAIN STEAM LOOP A INSIDE CTM	
ZONE 057	
IN 235 1	AREA 1 25212-20093 SH 07



LEGEND

LINE DESIGNATION

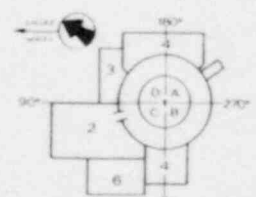
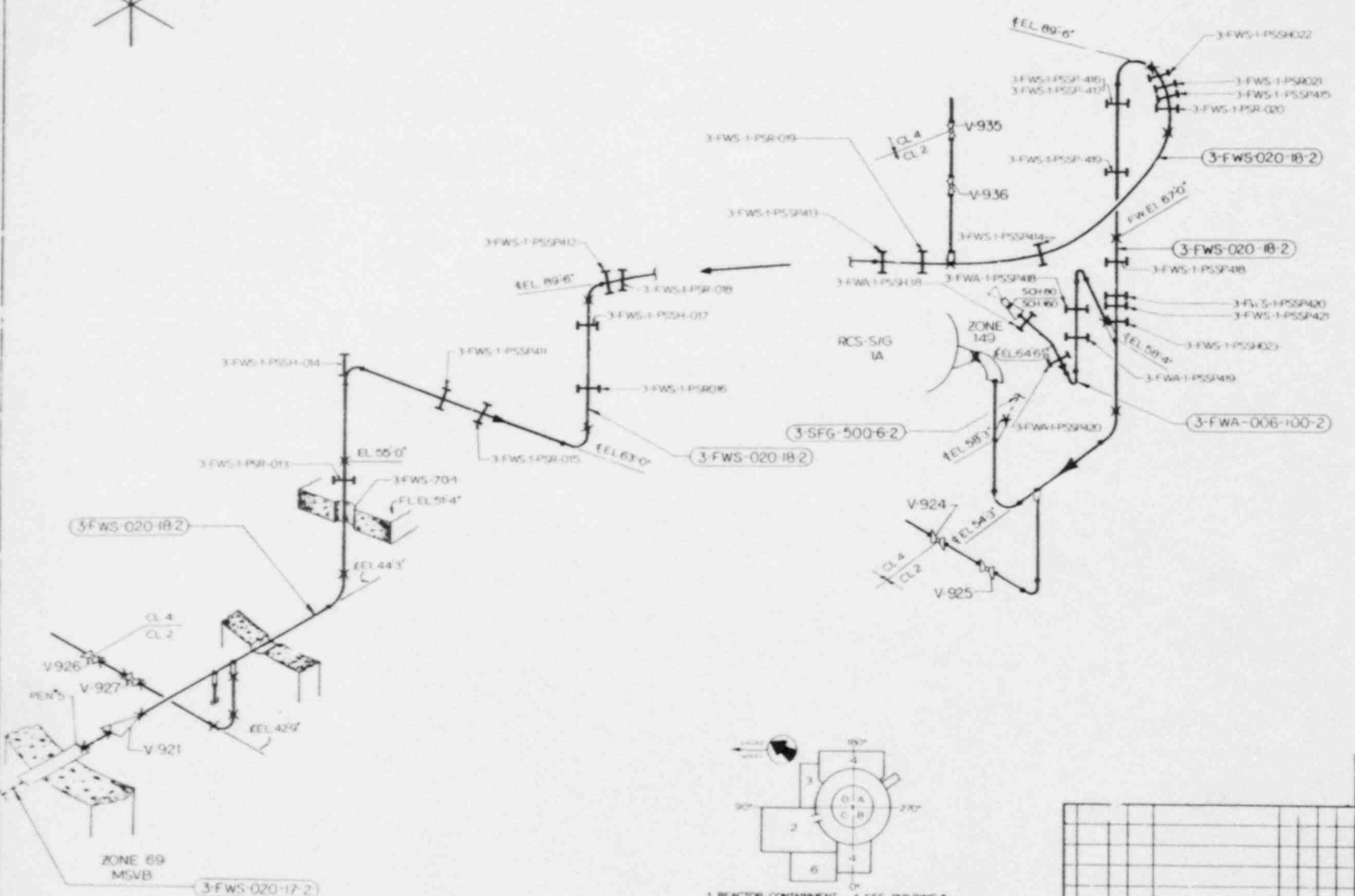
SHOP WELD - \*  
FIELD WELD - X

HANGERS - I

- PSR-001
- PSR-002
- PSR-003
- PSR-004
- PSR-005
- PSR-006
- PSR-007
- PSR-008
- PSR-009
- PSR-010
- PSR-011
- PSR-012
- PSR-013
- PSR-014
- PSR-015
- PSR-016
- PSR-017
- PSR-018
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- PSR-096
- PSR-097
- PSR-098
- PSR-099
- PSR-100

REF DWG'S  
VENDOR  
12179-CI-FWS-23A  
SH 5 & 6  
12179-CI-FWS-23 S42  
12179-CI-FA-509  
SH 5 & 6

Q.A



- 1 REACTOR CONTAINMENT
- 2 AUXILIARY BUILDING
- 3 FUEL BUILDING
- 4 ESP BUILDING A
- 5 MAIN STEAM VALVE BLDG
- 6 CONTROL & SERVICE BLDG

NORTH EAST UTILITIES SERVICE CO.		NORTH EAST NUC ENERGY CO.	
MILLSTONE NUC PWR STA UNIT 3 MAIN & AUXILIARY FEEDWATER SYS LOOP 1A INSIDE CTMT ZONE 065			
Wk	2	AS BUILT PER CHK # 10-0-000-07	DATE 10-0-00
TR	1	AS BUILT PER DGR 303-3-104-00	DATE 10-0-00
AREA 1		25-212-2099-3 SH 65	



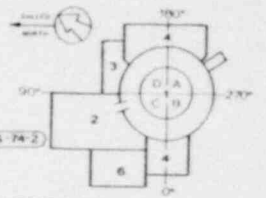


LEGEND

LINE DESIGNATION

SHOP WELD - \*  
FIELD WELD - X

HANGERS - I



1 REACTOR CONTAINMENT 4 ESF BUILDING A  
2 AUXILIARY BUILDING MAIN STEAM VALVE BLDG  
3 FUEL BUILDING 6 CONTROL & SERVICE BLDG

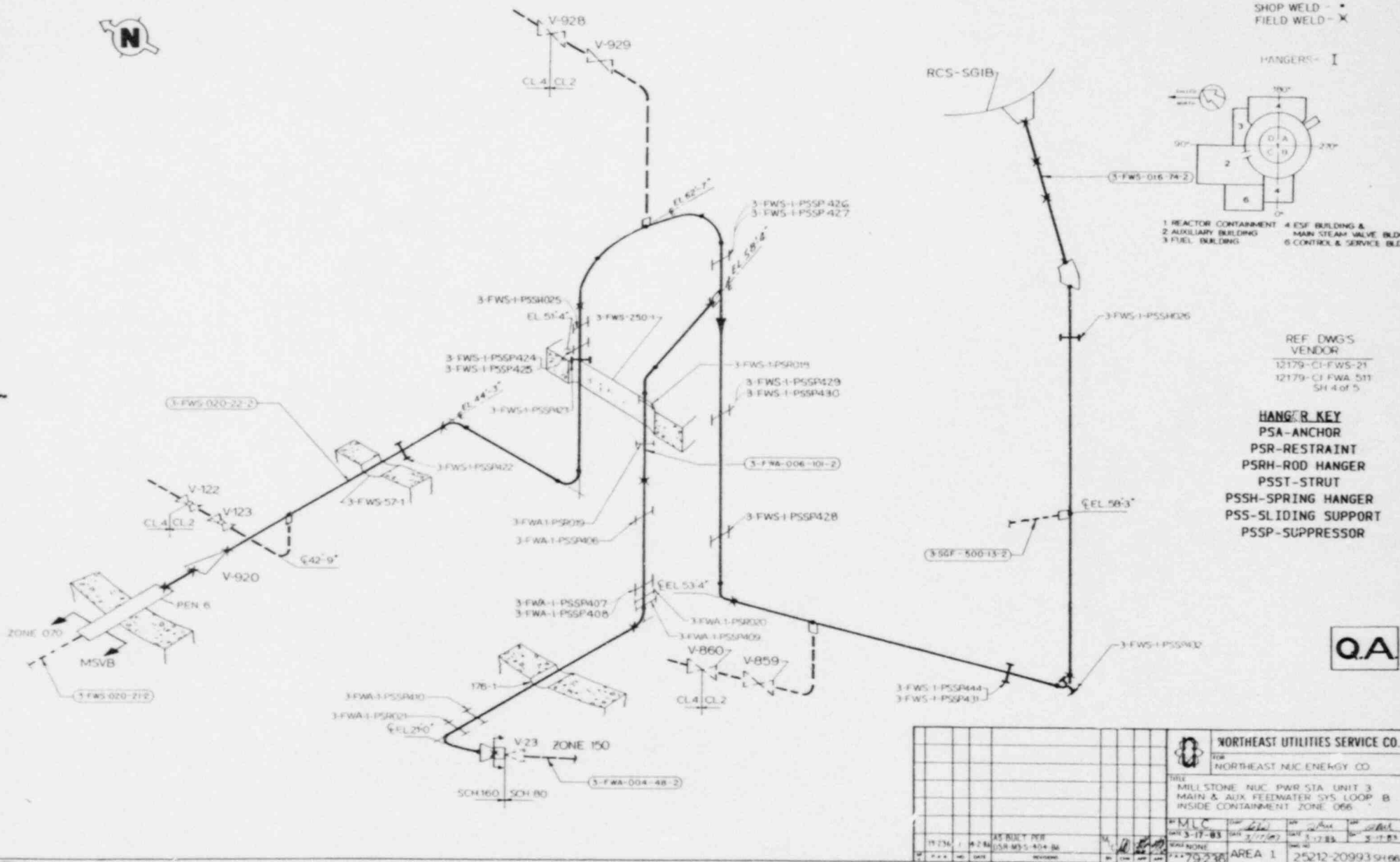
REF DWG'S  
VENDOR

12179-CI-FWA-21  
12179-CI-FWA-511  
SH 4 of 5

HANGER KEY

- PSA-ANCHOR
- PSR-RESTRAINT
- PSRH-ROD HANGER
- PSST-STRUT
- PSSH-SPRING HANGER
- PSS-SLIDING SUPPORT
- PSSP-SUPPRESSOR

QA

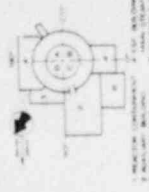


NORTHEAST UTILITIES SERVICE CO.		FOR NORTHEAST NUC ENERGY CO.	
TITLE: MILLSTONE NUC PWR STA UNIT 3 MAIN & AUX FEEDWATER SYS LOOP B INSIDE CONTAINMENT ZONE 066			
DATE: 3-17-83	BY: [Signature]	DATE: 3-22-83	BY: [Signature]
AREA 1	25212-20993	5/1/83	



1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11  
 12  
 13

-LEGEND-  
 LINE DESCRIPTION  
 SHOP WELD  
 FIELD WELD  
 HAMMER



1. ALL WELDS TO BE MADE IN ACCORDANCE WITH THE WELDING CODES AND SPECIFICATIONS OF THE AMERICAN WELDING SOCIETY (AWS) AND THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC).  
 2. ALL WELDS TO BE MADE BY A LICENSED WELDER.  
 3. ALL WELDS TO BE MADE IN ACCORDANCE WITH THE WELDING CODES AND SPECIFICATIONS OF THE AMERICAN WELDING SOCIETY (AWS) AND THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC).

REF: 020615  
 0278 01 000 24  
 0278 01 000 24A  
 0278 01 000 24B  
 0278 01 000 24C

0A

NORTHWEST UTILITIES SERVICE CO.  
 NORTHWEST UTILITIES SERVICE CO.  
 MILLSTONE NUCLEAR POWER STATION UNIT 3  
 MAIN AND AUXILIARY FEEDER SYSTEM  
 3.7 MW 1-PS20000 (3.7 MW 000 30 2)







NORTHWEST UTILITIES SERVICE CO.	
NORTHWEST, INC. ENGINEER CO.	
1400 1/2 AVENUE, S.W. SEASIDE, OREGON 97138	
PROJECT NO. 20001541	
DATE: 11/10/83	
DRAWN BY: [Signature]	
CHECKED BY: [Signature]	
SCALE: AS SHOWN	

- LEGEND-
- LINE DESIGNATION
  - SACP WELD
  - FIELD WELD
  - HANGER
- HANGER KEY
- PSA-ANCHOR
  - PSB-RESTRAINT
  - PSH-RIGID HANGER
  - PSST-STRIK
  - PSL-SLIDING SUPPORT
  - PSPP-SUPPRESSOR



3-SWP-6-PSR045  
3-SWP-6-PSR046  
3-SWP-6-PSR047  
3-SWP-6-PSR048  
3-SWP-6-PSR049  
3-SWP-6-PSR050  
3-SWP-6-PSR051  
3-SWP-6-PSR052  
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3-SWP-6-PSR089  
3-SWP-6-PSR090

CONCRETE ENCASUREMENT  
STEEL STRUCTURAL BUILDING  
HANGER

FIELD WELD

3-SWP-6-PSR045  
3-SWP-6-PSR046  
3-SWP-6-PSR047  
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3-SWP-6-PSR049  
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