

INSERVICE INSPECTION
EXAMINATION REPORT

of

SEABROOK STATION

for

NORTH ATLANTIC ENERGY SERVICE CORPORATION
P.O. Box 300
Seabrook, NH 03874

Commercial Service Date: August 19, 1990
Refueling Outage: 2
Period: 1
Interval: 1

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Date 1-27-93

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Program Support Manager

Date 1-27-93

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INTRODUCTION

Inservice Inspection Examinations of ASME Class 1,2, and 3 piping welds and components were conducted at Seabrook Station in accordance with ASME Section XI, 1983 Edition through Summer 1983 Addenda and the ISI Program Plan. This report summarizes ISI examinations completed during the second refueling outage encompassing the period from August 31, 1992 through November 8, 1992. Approximately 28% of the Interval 1 examinations have been completed.

DETAILED ISI SUMMARY

1.0 NONDESTRUCTIVE EXAMINATION PROCEDURES

The following procedures were used during refueling outage #2 inservice inspection. Three procedures utilized (VT, PT, MT), were North Atlantic Energy Service Corporation (NAESCO) procedures. The remaining procedures used were Yankee Atomic Electric Company (YAEC) procedures approved for use by NAESCO Station Operation Review Committee (SORC). YAEC serves as the certifying agent in NDE for NAESCO.

ES1807.001, Visual Examination Procedure
ES1807.002, Liquid Penetrant Examination - Solvent Removable
ES1807.003, Magnetic Particle Examination
YA-G-1S, Preparation of Welds for Ultrasonic Examination
YA-UT-1S, Ultrasonic Testing - General Requirements
YA-UT-2S, Ultrasonic Testing of Welds
YA-UT-4S, Ultrasonic Testing of Nozzle Inner Radii
YA-UT-5S, Ultrasonic Testing of Materials
YA-UT-100S, Ultrasonic Sizing of ID Connected Planar Flaws
YA-UT-112S, Ultrasonic Thickness Measurement

The following techniques were used for the subject examinations:

YA-UT-2S

S2-92-01 Rev. 1	S2-92-11 Rev. 0
S2-92-02 Rev. 1	S2-92-12 Rev. 0
S2-92-03 Rev. 1	S2-92-13 Rev. 0
S2-92-04 Rev. 1	S2-92-14 Rev. 0
S2-92-05 Rev. 1	S2-92-15 Rev. 0
S2-92-07 Rev. 0	S2-92-16 Rev. 0
S2-92-08 Rev. 0	S2-92-17 Rev. 0
S2-92-09 Rev. 1	S2-92-18 Rev. 0

YA-UT-4S

S4-92-01 Rev. 0
S4-92-02 Rev. 0

YA-UT-5S

S5-92-01 Rev. 1
S5-92-02 Rev. 0
S5-92-03 Rev. 0

2.0 SUMMARY REPORT

The following is a summary of all examinations performed, conditions noted, and corrective measures taken during the second refueling inservice inspection.

Code Category B-A Pressure Retaining Welds in Reactor Vessel

The reactor vessel flange to upper shell weld, RC RPV 101-121 was examined by UT with no recordable indications. This partial volume examination was conducted from the flange face. The remaining volume will be performed at the end of the interval.

Code Category B-B Pressure Retaining Welds in Vessels Other Than Reactor Vessels

Steam Generator "B" tubesheet to head weld, RC E-11B SEAM-1 was examined by UT with no recordable indications.

Code Category B-D Full Penetration Welds of Nozzles in Vessels

Pressurizer nozzle, RC E-10 A-NZ and its inner radius, RC E-10 A-IR were examined by UT with no recordable indications.

Two steam generator inner radii, RC E-11A 2A-IR and RC E-11A 2B-IR were completed this outage as they were unable to be examined during the previous outage. Their examinations yielded no recordable indications.

Two steam generator nozzles, RC E-11B 2A-NZ and RC E-11B 2B-NZ, and their associated inner radii, RC E-11B 2A-IR and RC E-11B 2B-IR were examined by UT with no recordable indications.

Code Category B-G-1 Pressure Retaining Bolting, Greater Than 2 in. In Diameter

RC RPV WASHER-06	VT-1 (no indications)
RC RPV WASHER-07	VT-1 (no indications)
RC RPV STUD-33	UT (no indications)
WASHER-33	VT-1 (no indications)
RC RPV STUD-34	UT (no indications)
WASHER-34	VT-1 (no indications)
RC RPV STUD-35	UT (no indications)
WASHER-35	VT-1 (no indications)
RC RPV STUD-36	UT (no indications)
WASHER-36	VT-1 (no indications)

2.0 SUMMARY REPORT (continued)

<u>Code Category B-G-1</u> (continued)	<u>Pressure Retaining Bolting, Greater Than</u> <u>2 in. In Diameter</u>
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RC RPV STUD-46 WASHER-46	UT (no indications) VT-1 (no indications)
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RC RPV FLANGE THREAD 01 - 54	UT (no recordable indications)
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<u>Code Category B-G-2</u>	<u>Pressure Retaining Bolting, 2 in. and</u> <u>Less in Diameter</u>
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The following components had bolting visually examined (VT-1) in place and under tension.

CS 0329-05	P-1B-B	No unacceptable conditions noted.
CS 0365-02	V185-B	No unacceptable conditions noted.
CS 0368-02	V178-B	No unacceptable conditions noted.
CS 0368-02	V179-B	No unacceptable conditions noted.
RC E-10	R-Bolt	No unacceptable conditions noted.
RH 0160-05	FE-2540-B	No unacceptable conditions noted.
RH 0160-05	V50-B	No unacceptable conditions noted.
RH 0160-06	V53-B	No unacceptable conditions noted.
RH 0180-02	V51-B	No unacceptable conditions noted.
RH 0180-03	FE-2541-B	No unacceptable conditions noted.
RH 0180-03	V52-B	No unacceptable conditions noted.
SI 0204-02	V47-B	No unacceptable conditions noted.
SI 0204-02	V50-B	No unacceptable conditions noted.
SI 0204-02	V51-B	No unacceptable conditions noted.

The following components had bolting visually examined (VT-1) upon removal.

RC E-11A 2-A-STUDS s/n 011,023,034,043, 048,049,051,055,072, 073,097,098,100,103, 115,127	No unacceptable conditions noted.
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2.0 SUMMARY REPORT (continued)

Code Category B-G-2
(continued)

Pressure Retaining Bolting, 2 in. and
Less in Diameter

RC E-11A 2-A-NUTS
For the above listed
s/n's.

No unacceptable conditions noted.

s/n 049

Rejected for mechanical damage.
Evaluated as not an inservice condition.
The damage was corrected and nut
successfully re-examined.

RC E-11A 2-B-STUDS
s/n 004,009,025,056,
059,077,091,095,099,
102,106,112,122,124,
141,144

No unacceptable conditions noted.

RC E-11A 2-B-NUTS
For the above listed
s/n's.

No unacceptable conditions noted.

RC E-11D 2-A-STUDS
s/n 001,010,014,026,
029,031,032,054,060,
090,093,108,116,117,
118,142

No unacceptable conditions noted.

RC E-11D 2-A-NUTS
For the above listed
s/n's.

No unacceptable conditions noted.

RC E-11D 2-B-STUDS
s/n 005,007,019,045,
046,074,083,084,086,
088,089,131,134,135,
139,140

No unacceptable conditions noted.

RC E-11D 2-B-NUTS
For the above listed
s/n's.

No unacceptable conditions noted.

Code Category B-J

Pressure Retaining Welds in Piping

The following Charging System piping welds were inspected as follows:

CS 0329-04 05

Liquid penetrant examination was
performed with no unacceptable
indications.

2.0 SUMMARY REPORT (continued)

Code Category B-J
(continued)

Pressure Retaining Welds in Piping

CS 0329-05 03	Liquid penetrant examination was performed with no unacceptable indications.
CS 0329-05 04	Liquid penetrant examination was performed with no unacceptable indications.
CS 0365-02 21	Liquid penetrant examination was performed with no unacceptable indications.
CS 0365-02 22	Liquid penetrant examination recorded one acceptable rounded indication.
CS 0365-02 25	Liquid penetrant examination was performed with no unacceptable indications.
CS 0368-02 03	Liquid penetrant examination was performed with no unacceptable indications.
CS 0368-02 04	Liquid penetrant examination was performed with no unacceptable indications.
CS 0368-02 05	Liquid penetrant examination was performed with no unacceptable indications.

The following Residual Heat Removal System piping welds were inspected as follows:

RH 0160-05 02	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RH 0160-05 03	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RH 0160-06 09	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RH 0160-06 10	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category B-J (continued)

Pressure Retaining Welds in Piping

RH 0160-06 12

Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

RH 0160-06 13

Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

RH 0160-17 01

Ultrasonic examination recorded an indication which was evaluated as root geometry. This was verified by an ID/OD profile scan and review of the construction radiograph. Liquid penetrant examination was performed with no unacceptable indications.

RH 0160-17 02

Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

RH 0180-03 01

Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

RH 0180-03 09

Ultrasonic examination recorded an indication at varying amplitude for 360 around the pipe. Evaluation determined the ID geometry was due to beam redirection caused by dendritic weld structure. Liquid penetrant examination was performed with no unacceptable indications.

RH 0180-03 10

Ultrasonic examination recorded an indication at varying amplitude for 360 around the pipe. Evaluation determined the ID geometry was due to beam redirection caused by dendritic weld structure. Liquid penetrant examination was performed with no unacceptable indications.

RH 0180-03 11

Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category B-J (continued)

Pressure Retaining Welds in Piping

RH 0180-05 01

Ultrasonic examination recorded an indication which was evaluated as root geometry. This was verified by an ID/OD profile scan and review of the construction radiograph. Liquid penetrant examination was performed with no unacceptable indications.

RH 0180-05 02

Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

The following Safety Injection System piping welds were inspected as follows:

SI 0204-02 08

Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

SI 0204-02 09

Ultrasonic examination recorded an indication which was evaluated as root geometry. This was verified by an ID/OD profile scan. Liquid penetrant examination was performed with no unacceptable indications.

SI 0204-02 10

Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

SI 0204-02 11

Ultrasonic examination recorded an indication which was evaluated as counter bore geometry. This was verified by an ID/OD profile scan. Liquid penetrant examination was performed with no unacceptable indications.

SI 0204-02 22

Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

SI 0250-05 03

Liquid penetrant examination was performed with no unacceptable indications.

SI 0250-05 04

Liquid penetrant examination was performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category B-J (continued)

Pressure Retaining Welds in Piping

SI 0261-03 01 Liquid penetrant examination was performed with no unacceptable indications.

SI 0261-03 02 Liquid penetrant examination was performed with no unacceptable indications.

SI 0270-02 03 Liquid penetrant examination was performed with no unacceptable indications.

SI 0270-02 04 Liquid penetrant examination was performed with no unacceptable indications.

SI 0273-04 01 Liquid penetrant examination was performed with no unacceptable indications.

Code Category B-M-2

Valve Bodies

RH 0160-05 V50-IS Visual examination (VT-3) performed on internal surfaces with no unacceptable conditions.

Code Category B-O

Pressure Retaining Welds on Control Rod Housings

RC RPV 214-112-B Liquid penetrant examination was performed with no unacceptable indications.

RC RPV 215-112-A Liquid penetrant examination recorded one acceptable curvilinear indication.

Code Category B-P

All Pressure Retaining Components

A final system leakage test was conducted on the Reactor Coolant System prior to plant startup from refueling. Visual examination noted no unacceptable conditions.

Code Category C-A

Pressure Retaining Welds in Pressure Vessels

Ultrasonic examination was performed on two Regenerative Heat Exchanger welds CS E-2 REG-3A and CS E-2 REG-3B. Weld CS E-2 REG-3B recorded an indication which was evaluated as beam redirection due to columnar grain structure of the weld.

2.0 SUMMARY REPORT (continued)

Code Category C-F-1

Pressure Retaining Welds in Austenitic
Stainless Steel or High Alloy Piping

The following Containment Building Spray piping welds were inspected as follows:

CBS 1211-02 08	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1211-02 12	Ultrasonic examination recorded an indication which was evaluated as counter bore geometry. This was verified by an ID/OD profile scan. Liquid penetrant examination was performed with no unacceptable indications.
CBS 1211-02 LU2	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1211-02 LD6	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1211-02 LD7	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1211-02 LU8	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1212-02 03	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1212-02 LD13	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1216-01 01	Ultrasonic examination recorded four indications which were evaluated as root geometry and one indication evaluated as ID geometry. This was verified by an ID/OD profile scan and review of the construction radiograph. Liquid penetrant examination recorded one acceptable rounded indication.

2.0 SUMMARY REPORT (continued)

Code Category C-F-1
(continued)

Pressure Retaining Welds in Austenitic
Stainless Steel or High Alloy Piping

CBS 1216-01 LD1

Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

CBS 1216-02 01

Ultrasonic examination recorded an indication which was evaluated as counter bore geometry. This was verified by an ID/OD profile scan. Liquid penetrant examination was performed with no unacceptable indications.

CBS 1216-02 LU2

Ultrasonic examination was performed with no unacceptable indications. Liquid penetrant examination recorded an acceptable punch mark indication.

CBS 1216-02 LU3

Ultrasonic examination was performed with no unacceptable indications. Liquid penetrant examination recorded an acceptable punch mark indication.

CBS 1216-02 LU4

Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

CBS 1216-02 22

Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

The following Charging System piping welds were inspected as follows:

CS 0327-01 03

Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

CS 0327-01 04

Ultrasonic examination recorded two indications which were evaluated as root geometry and one indication which was evaluated as counter bore geometry. These indications were verified by construction radiographs. Liquid penetrant examination was performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-F-1
(continued)

Pressure Retaining Welds in Austenitic
Stainless Steel or High Alloy Piping

CS 0327-01 05

Ultrasonic examination recorded an indication which was evaluated as a geometric reflector. This was verified by an ID/OD profile scan and review of the construction radiograph. Liquid penetrant examination was performed with no unacceptable indications.

CS 0327-02 01

Liquid penetrant examination was performed with no unacceptable indications.

CS 0327-02 02

Liquid penetrant examination was performed with no unacceptable indications.

The following Safety Injection System piping welds were inspected as follows:

SI 0256-01 02

Ultrasonic examination recorded an indication at varying amplitude for 360 around the pipe. Evaluation determined the ID geometry was due to beam redirection caused by dendritic weld structure. Liquid penetrant examination was performed with no unacceptable indications.

SI 0256-01 08

Ultrasonic examination recorded two indications which were evaluated as root geometry. This was verified by review of the construction radiograph. Liquid penetrant examination recorded an acceptable rounded indication.

SI 0256-02 02

Ultrasonic examination recorded an indication which was evaluated as root geometry. This was verified by an ID/OD profile scan. Liquid penetrant examination was performed with no unacceptable indications.

Code Category C-F-2

Pressure Retaining Welds in Carbon Steel
or Low Alloy Steel Piping

The following Feedwater System welds were inspected as follows:

FW 4607-03 01

Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-F-2
(continued)

Pressure Retaining Welds in Carbon Steel
or Low Alloy Steel Piping

FW 4607-03 02

Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.

The following Main Steam System welds were inspected as follows:

MS 4001-02 05

Ultrasonic examination recorded an indication which was evaluated as root geometry. This was verified by an ID/OD profile scan and review of the construction radiograph. Magnetic particle examination was performed with no unacceptable indications.

MS 4001-02 06

Ultrasonic examination recorded several indications which were evaluated as root geometry. This was verified by an ID/OD profile scan. Magnetic particle examination was performed with no unacceptable indications.

MS 4001-02 07

Ultrasonic examination recorded two indications which were evaluated as root geometry and counter bore geometry. This was verified by an ID/OD profile scan. Magnetic particle examination was performed with no unacceptable indications.

MS 4001-02 02B

Ultrasonic examination was performed with no unacceptable indications. Magnetic particle examination recorded linear indications which were corrected by surface conditioning and successfully re-examined.

MS 4001-02 03B

Magnetic particle examination was performed with no unacceptable indications.

MS 4002-02 05

Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-F-2 (continued)

Pressure Retaining Welds in Carbon Steel or Low Alloy Steel Piping

MS 4002-02 06

Ultrasonic examination recorded two indications which were evaluated as root geometry and counter bore geometry. This was verified by an ID/OD profile scan and review of the construction radiograph. Magnetic particle examination was performed with no unacceptable indications.

MS 4002-02 07

Ultrasonic examination recorded an indication which was evaluated as counter bore geometry. This was verified by an ID/OD profile scan. Magnetic particle examination was performed with no unacceptable indications.

MS 4002-02 02B

Magnetic particle examination was performed with no unacceptable indications.

MS 4002-02 03B

Magnetic particle examination was performed with no unacceptable indications.

Corrections

Code Category B-J, weld RH 0162-02 09 was inadvertently credited in the first refueling outage NIS-1. This weld had interference from a box restraint which produced less than full volume examination coverage. An alternate selection was made.

ISI Supports (NF)

The following supports received a WT-3/VT-4 visual examination. Problem sheet number refers to supports that failed visually (i.e. loose or missing parts, clearances, etc.). Evaluations were performed and the supports were determined to be operable, and they did not fall within IWF-3410A.

Support No.	System	Class	Status	Problem Sh. No.
1-0013-RG-011	RC	2	Accept	
1-0013-RG-014	RC	2	Accept	
1-0013-RG-017	RC	2	Accept	
1-0013-RG-018	RC	2	Accept	
1-0013-SG-008	RC	1	Accept	
1-0013-SG-010	RC	2	Accept	
1-0013-SG-013	RC	2	Accept	
1-0013-SG-016	RC	2	Accept	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Status	Problem Sh. No.
1-0013-SG-019	RC	2	Accept	
1-0013-SV-003	RC	1	Accept	
1-0013-SV-020	RC	2	Accept	
1-0021-A-019	RC	1	Accept	
1-0021-RG-010	RC	1	Accept	
1-0021-SG-013	RC	1	Accept	
1-0021-RG-014	RC	1	Accept	
1-0021-RG-015	RC	1	Reject/Accept	06
1-0021-SG-001	RC	1	Accept	
1-0021-SG-006	RC	1	Reject/Accept	01
1-0021-SG-008	RC	1	Accept	
1-0021-SG-016	RC	1	Accept	
1-0021-SG-025	RC	1	Accept	
1-0021-SV-009	RC	1	Accept	
1-0048-RG-004	RC	1	Accept	
1-0048-RG-007	RC	1	Accept	
1-0048-RG-008	RC	1	Accept	
1-0048-RG-019	RC	1	Accept	
1-0048-RG-020	RC	1	Accept	
1-0048-RG-021	RC	1	Accept	
1-0048-RG-022	RC	1	Accept	
1-0048-RG-023	RC	1	Accept	
1-0048-RG-024	RC	1	Accept	
1-0048-RG-029	RC	1	Accept	
1-0048-SG-003	RC	1	Accept	
1-0048-SG-006	RC	1	Reject/Accept	02
1-0049-SG-001	RC	1	Reject/Accept	PG-04
1-0049-SG-004	RC	1	Accept	
1-0058-SG-007	RC	1	Accept	
1-0058-SV-003	RC	1	Accept	
1-0074-RG-001	RC	1	Accept	
1-0080-SG-001	RC	1	Accept	
1-0080-SG-002	RC	1	Accept	
1-0080-SG-003	RC	1	Reject/Accept	13
1-0080-SG-004	RC	1	Accept	
1-0080-SG-005	RC	1	Accept	
1-0080-SG-006	RC	1	Accept	
1-0093-SV-001	RC	1	Accept	
1-0097-SG-012	RC	1	Accept	
1-0097-SG-013	RC	1	Accept	
1-0097-SG-015	RC	1	Accept	
1-0097-SG-016	RC	1	Accept	
1-0097-SG-017	RC	1	Accept	
1-0097-SH-011	RC	1	Accept	
1-0097-SH-014	RC	1	Accept	
1-0151-RG-010	RH	2	Accept	
1-0151-RG-011	RH	2	Accept	
1-0151-SG-008	RH	2	Accept	
1-0151-SG-009	RH	2	Reject/Accept	20

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Status	Problem Sh. No.
1-0151-SG-012	RH	2	Accept	
1-0151-SH-001	RH	2	Accept	
1-0151-SH-002	RH	2	Accept	
1-0151-SH-005	RH	2	Accept	
1-0155-SG-016	RH	2	Accept	
1-0155-SG-018	RH	2	Accept	
1-0155-SG-019	RH	2	Reject/Accept	07
1-0155-SG-025	RH	2	Accept	
1-0155-SH-029	RH	2	Accept	
1-0155-SV-027	RH	2	Accept	
1-0157-RG-003	RH	2	Accept	
1-0157-RG-005	RH	2	Eval/Accept	18
1-0157-RG-008	RH	2	Accept	
1-0157-RG-009	RH	2	Accept	
1-0157-SG-002A	RH	2	Accept	
1-0157-SG-006	RH	2	Accept	
1-0157-SG-007	RH	2	Accept	
1-0158-A-020	RH	2	Accept	
1-0158-SG-015	RH	2	Accept	
1-0158-SG-016	RH	2	Accept	
1-0158-SG-017	RH	1	Accept	
1-0158-SG-019	RH	2	Accept	
1-0158-SG-023	RH	2	Accept	
1-0158-SG-024	RH	2	Accept	
1-0158-SG-025	RH	1	Accept	
1-0158-SC-026	RH	1	Accept	
1-0158-SG-028	RH	1	Accept	
1-0158-SG-030	RH	1	Accept	
1-0158-SG-032	KH	1	Accept	
1-0158-SG-032	PH	1	Accept	
1-0158-SG-033	RH	1	Accept	
1-0158-SV-014	RH	2	Accept	
1-0160-SG-013	RH	2	Accept	
1-0160-SG-014	RH	2	Accept	
1-0160-SG-016	RH	2	Accept	
1-0160-SG-021	RH	2	Accept	
1-0167-RG-004	RH	2	Accept	
1-0167-SG-001	RH	2	Accept	
1-0167-SG-002	RH	2	Accept	
1-0167-SG-003	RH	2	Accept	
1-0180-SG-001	RH	2	Reject/Accept	11
1-0180-SG-002	RH	2	Reject/Accept	08
1-0180-SG-004	RH	2	Reject/Accept	10
1-0201-RG-005	SI	1	Accept	
1-0201-SG-008	SI	1	Accept	
1-0202-RG-005	SI	1	Accept	
1-0202-SG-008	SI	1	Accept	
1-0203-SG-003	SI	1	Accept	
1-0203-SG-004	SI	1	Accept	
1-0203-SG-008	SI	1	Accept	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Status	Problem Sh. No.
1-0204-SG-003	SI	1	Accept	
1-0204-SG-004	SI	1	Accept	
1-0204-SG-008	SI	1	Accept	
1-0250-A-019	SI	2	Accept	
1-0250-RG-004B	SI	2	Accept	
1-0250-SG-002	SI	2	Accept	
1-0250-SG-003	SI	2	Accept	
1-0250-SG-006	SI	2	Accept	
1-0251-SG-018	SI	2	Accept	
1-0251-SG-019	SI	2	Accept	
1-0251-SG-020	SI	2	Accept	
1-0251-SG-021	SI	2	Accept	
1-0251-SG-023	SI	2	Accept	
1-0251-SG-22A	SI	2	Accept	
1-0256-SG-009	SI	2	Accept	
1-0256-SG-011	SI	2	Accept	
1-0256-SG-012	SI	2	Accept	
1-0256-SG-013	SI	2	Accept	
1-0258-A-010	SI	2	Accept	
1-0258-RG-003	SI	2	Accept	
1-0258-SG-001	SI	2	Accept	
1-0258-SG-002	SI	2	Accept	
1-0259-SG-006	SI	2	Accept	
1-0259-SG-007	SI	2	Accept	
1-0259-SG-008	SI	2	Accept	
1-0259-SG-009	SI	2	Accept	
1-0259-SG-010	SI	2	Accept	
1-0259-SG-011	SI	2	Accept	
1-0259-SG-013	SI	2	Accept	
1-0272-SG-003	SI	1	Accept	
1-0272-SG-004	SI	1	Accept	
1-0272-SG-005	SI	1	Accept	
1-0272-SG-006	SI	1	Accept	
1-0272-SG-008	SI	1	Accept	
1-0274-A-013	SI	1	Accept	
1-0274-RG-009	SI	1	Accept	
1-0274-RG-021	SI	1	Accept	
1-0274-SG-001	SI	1	Accept	
1-0274-SG-002	SI	1	Accept	
1-0274-SG-003	SI	1	Accept	
1-0274-SG-004	SI	1	Accept	
1-0325-SH-002	CS	2	Accept	
1-0326-RG-002	CS	2	Accept	
1-0326-SG-001	CS	2	Accept	
1-0327-SG-001	CS	2	Accept	
1-0327-SG-003	CS	2	Accept	
1-0327-SG-004	CS	2	Accept	
1-0327-SG-005	CS	2	Accept	
1-0330-RG-030	CS	1	Accept	
1-0330-SG-029	CS	1	Accept	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Status	Problem Sh. No.
1-0331-RG-017	CS	1	Accept	
1-0331-RG-019	CS	1	Accept	
1-0331-SG-018	CS	1	Accept	
1-0343-A-013	CS	1	Accept	
1-0343-SG-012	CS	1	Accept	
1-0343-SG-015	CS	1	Accept	
1-0343-SG-018	CS	1	Accept	
1-0355-RG-024	CS	2	Accept	
1-0355-RG-025	CS	2	Accept	
1-0355-RG-035	CS	2	Reject/Accept	12
1-0355-RG-038	CS	2	Accept	
1-0355-RG-040	CS	2	Accept	
1-0355-SG-008	CS	2	Accept	
1-0355-SG-009	CS	2	Accept	
1-0355-SG-010	CS	2	Accept	
1-0355-SG-021	CS	2	Accept	
1-0355-SG-023	CS	2	Accept	
1-0355-SG-026	CS	2	Accept	
1-0355-SG-027	CS	2	Accept	
1-0355-SG-028	CS	2	Accept	
1-0355-SG-029	CS	2	Accept	
1-0358-SG-016	CS	2	Accept	
1-0358-SG-017	CS	2	Accept	
1-0358-SG-018	CS	2	Accept	
1-0358-SG-019	CS	2	Accept	
1-0362-RG-003	CS	2	Accept	
1-0362-RG-005	CS	2	Accept	
1-0362-SG-004	CS	2	Accept	
1-0363-SG-001	CS	2	Accept	
1-0363-SV-004	CS	2	Accept	
1-0364-RG-001	CS	2	Accept	
1-0364-RG-003	CS	2	Accept	
1-0364-SG-004	CS	2	Accept	
1-0364-SG-005	CS	2	Accept	
1-0364-SV-002	CS	2	Accept	
1-0364-SV-011	CS	2	Accept	
1-0369-SG-014	CS	2	Accept	
1-0369-SG-019	CS	2	Accept	
1-0369-SG-020	CS	2	Accept	
1-0375-SG-005	CS	2	Accept	
1-0375-SG-007	CS	2	Accept	
1-0375-SH-004	CS	2	Accept	
1-0375-SV-012	CS	2	Accept	
1-0751-SG-005	CC	3	Accept	
1-0797-SG-002	CC	3	Accept	
1-0797-SG-004	CC	3	Accept	
1-0797-SG-005	CC	3	Accept	
1-0797-SG-007	CC	3	Accept	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Status	Problem Sh. No.
1-1201-RG-015	CBS	2	Accept	
1-1201-SG-013	CBS	2	Accept	
1-1201-SH-014	CBS	2	Reject/Accept	19
1-1202-RG-016	CBS	2	Accept	
1-1202-SG-013	CBS	2	Reject/Accept	21
1-1202-SG-014	CBS	2	Accept	
1-1209-RG-001	CBS	2	Accept	
1-1209-SV-002	CBS	2	Accept	
1-1211-RG-004	CBS	2	Accept	
1-1211-RG-005	CBS	2	Accept	
1-1214-RG-052	CBS	2	Accept	
1-1214-RG-053	CBS	2	Accept	
1-1214-RG-054	CBS	2	Accept	
1-1214-SV-051	CBS	2	Accept	
1-1216-SV-051	CBS	2	Accept	
1-1703-RG-003	SF	3	Accept	
1-1810-SG-007	SW	3	Accept	
1-1812-SG-004	SW	3	Accept	
1-1813-RG-004	SW	3	Accept	
1-4000-A-027	MS	2	Accept	
1-4000-RG-022	MS	2	Accept	
1-4000-RG-024	MS	2	Accept	
1-4000-RG-026	MS	2	Accept	
1-4000-RG-C28	MS	2	Accept	
1-4001-RG-022	MS	2	Accept	
1-4001-RG-024	MS	2	Accept	
1-4001-RG-026	MS	2	Accept	
1-4002-RG-010A	MS	2	Accept	
1-4002-RG-025	MS	2	Reject/Accept	22
1-4002-RG-027	MS	2	Accept	
1-4002-RG-029	MS	2	Accept	
1-4002-SG-022	MS	2	Accept	
1-4002-SG-023	MS	2	Accept	
1-4002-SG-026	MS	2	Accept	
1-4003-A-028	MS	2	Accept	
1-4003-RG-025	MS	2	Reject/Accept	23
1-4003-RG-027	MS	2	Accept	
1-4003-RG-029	MS	2	Accept	
1-4397-SG-001	DG	3	Accept	
1-4397-SG-003	DG	3	Accept	
1-4398-SG-004	DG	3	Accept	
1-4405-A-001A	DG	3	Accept	
1-4408-SG-001	DG	3	Accept	
1-4606-RG-003A	FW	2	Accept	
1-4606-RG-006	FW	2	Reject/Accept	04
1-4606-RG-013	FW	2	Accept	
1-4606-SG-001A	FW	2	Accept	
1-4606-SG-010	FW	2	Accept	
1-4607-SG-011	FW	2	Accept	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Status	Problem Sh. No.
1-4608-SG-011	FW	2	Accept	
1-4609-RG-003A	FW	2	Accept	
1-4609-SG-001A	FW	2	Accept	

Support Examination Problem Sheets

<u>Problem No.</u>	<u>Component ID</u>	<u>Disposition</u>
01	1-0021-SG-006	Rejected due to unacceptable measured gap. Accepted based on review of support displacement calc. which indicates pipe movement to be away from support steel.
02	1-0048-SG-006	Rejected due to clearances exceeding drawing tolerances. Accepted based on review of pipe movements given in support calc.
04	1-4606-RH-006	Rejected due to drawing showing a double bolted clamp and only single bolt installation found. Accepted due to ISI drawing found to be in error. Drawing to be corrected.
06	1-0021-RG-015	Rejected due to unacceptable measured gaps. Accepted based on review of pipe movements given in support calc.
07	1-0155-SG-019	Rejected due to unacceptable measured gap. Accepted based on review of support calc. which indicates adequate clearance exists for pipe movement in the unrestrained direction.
08	1-0180-SG-002	Rejected due to unacceptable measured gaps. Accepted based on review of support calc. which indicates that the pipe movement is minimal.

Support Examination Problem Sheets (continued)

<u>Problem No.</u>	<u>Component ID</u>	<u>Disposition</u>
10	1-0180-SG-004	Rejected due to unacceptable measured gaps. Measured gaps were acceptable since they were slightly larger than those originally specified.
11	1-0180-SG-001	Rejected due to unacceptable measured gaps. Accepted based on review of support calc. which indicates adequate clearance exists for pipe movement in the unrestrained direction.
12	1-0355-RG-035	Rejected due to pipe clamp in field not as depicted on the drawing. Acceptable because the installed clamp is correct. The drawing will be revised.
13	1-0080-SG-003	Rejected due to plate bolts and nuts being loose. Acceptable because the bolting on this support is supposed to be finger tight.
18	1-0157-RG-005	Evaluation required as the support did not match the drawing. ISI drawing did not reflect the latest design. Acceptable upon issuance of revised drawing.
19	1-1201-SH-014	Rejected due to unacceptable measured gap. Accepted based on review of support calc. which indicates adequate clearance exists for pipe movement.
20	1-0151-SG-009	Rejected due to unacceptable measured gap. Accepted based on review of support calc. which indicates adequate clearance exists for pipe movement.
21	1-1202-SG-013	Rejected because the support did not match the drawing. ISI drawing did not reflect the latest design. Acceptable upon issuance of revised drawing.

Support Examination Problem Sheets (continued)

<u>Problem No.</u>	<u>Component ID</u>	<u>Disposition</u>
23	1-4003-RG-025	Rejected due to unacceptable measured gap. Accepted based on review of support calc. which indicates that the increased moment arm will not cause member and weld stresses to exceed allowable limits.
PG-04	1-0049-SG-001	Rejected due to a cracked weld. Repair of weld initiated and subsequent examination was acceptable. Evaluation determined operability was not affected.

Class 2 and 3 ISI Pressure Tests

<u>Procedure No.</u>	<u>Code Category</u>	<u>Title</u>
EX1810.101	B-P	Class 1 RCS ISI Function Test
EX1810.201	C-H	Containment Spray System Train A ISI Functional Test
EX1810.202	C-H	Containment Spray System Train B ISI Functional Test
EX1810.206	C-H	Charging System - Charging Pump Discharge Pipe ISI Functional Test
EX1810.212	C-H	Sample System Functional Test
EX1810.213	C-H	Feedwater System Functional Test
EX1810.309	D-C	Spent Fuel Cooling System Functional Test
EX1810.310	D-A,D-B	CST/Emergency Feed Pump and Piping Functional Test
EX1810.313	D-A	Diesel Generator B Cooling Water Functional Test
EX1810.314	D-A,D-B	Diesel Generator B Starting Air System Functional Test
EX1810.315	D-A,D-B	Diesel Generator A Starting Air System Functional Test

2.0 SUMMARY REPORT (continued)

Class 2 and 3 ISI Pressure Tests (continued)

<u>Procedure No.</u>	<u>Code Category</u>	<u>Title</u>
EX1810.316	D-A	Diesel Generator A Cooling Water Functional Test
EX1810.318	D-A	Diesel Generator A Fuel Oil System Functional Test
EX1810.319	D-A	Diesel Generator B Fuel Oil System Functional Test
EX1810.320	D-A	Diesel Generator A Lube Oil System Functional Test
EX1810.321	D-A	Diesel Generator B Lube Oil System Functional Test
EX1811.301	D-B	EFW Pumps Discharge Piping 10-Year ISI Hydrostatic Test
EX1811.309	D-B	Feedwater Recirc Line 10-Year ISI Hydrostatic Test
EX1811.312	D-B	Service Water Train B 10-Year ISI Hydrostatic Test
EX1811.318	C-H,D-A,D-B	PCCW System Loop B 10-Year ISI Hydrostatic Test

The above tests, with the exception of Service Water, successfully underwent a VT-2 visual examination. Sections of Train B Service Water piping located in the Primary Auxiliary Building failed the VT-2 examination due to corrosion on the OD surface of the piping. Pipe wall thickness was checked and evaluated as acceptable by Engineering. Also, the inlet bellows to the diesel heat exchanger failed due to pin hole leaks in the bellows. This section was subsequently replaced and tested satisfactorily.

APPENDIX A

FORM NIS-1 OWNER'S REPORT

FOR

INSERVICE INSPECTIONS

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner North Atlantic Energy Service Corporation
P. O. Box 300, Seabrook, NH 03874
(Name and Address of Owner)
2. Plant Seabrook Nuclear Power Station, Seabrook, NH 03874
(Name and Address of Plant)
3. Plant Unit Seabrook Unit 1
4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 8/19/90
6. National Board Number for Unit N/A
7. Components Inspected
See Abstract Item No. 13
8. Examination Dates 8/31/92 to 11/8/92
9. Inspection Period Identification: First Period
10. Inspection Interval Identification: First Ten Year Interval
11. Applicable Edition of Section XI 1983 Addenda Summer 1983
12. Date/Revision of Inspection Plan: April 8, 1987 Revision 0
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.
See attached Abstract, Pages 27 through 28. Statement concerning status of work required for the Inspection Plan is included in the Introduction.
14. Abstract of Results of Examinations and Tests.
See attached Abstract, Pages 28 through 29.
15. Abstract of Corrective Measures.
See attached Abstract, Pages 29 through 30.

FORM NIS-1 (Page 2)

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

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

Expiration Date: N/A

Signed Kevin A. Whitney Date January 27, 1993
(Owner)

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 NEW HAMPSHIRE and employed by HARTFORD STEAM BOILER INSPECTION INSURANCE of HARTFORD CT. have inspected the components described in the Owner's Report during the period 9/3/92 to 11/8/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, and corrective measures described in this Owner's 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 connection with this inspection.

[Signature]
(Inspector's Signature)
Commissions NH202 NBCSIA
National Board, State, Province, and Endorsements

Date 1/28/93

13. Abstract of Examinations

ASME Class 1

<u>ASME Code Category</u>	<u>No.</u>	<u>Components Examined</u>	<u>Method</u>
B-A		Reactor Vessel Flange-to-Shell Weld	UT
B-B	(1)	Steam Generator "B" Tubesheet-to- Head Weld	UT
B-D	(3)	Nozzle-to-Vessel Welds	UT
	(5)	Nozzle Inside Radius Section	UT
B-G-1	(5)	RPV Studs	UT, MT
	(2)	RPV Studs	MT
	(7)	RPV Nuts	MT
	(7)	RPV Washers	VT-1
	(54)	RPV Flange Threads	UT
B-G-2	(10)	Valve Bolting	VT-1
	(5)	Vessel Manway Bolting	VT-1
	(3)	Piping Flange Connections	VT-1
B-J	(19)	Piping Welds	UT, PT
	(16)	Piping Welds	PT
B-M-2	(1)	Valve Body Internals	VT-3
B-O	(2)	CRDM Housing Welds	PT
B-P		System Leakage Test Conducted on all Class 1 Systems	VT-2

ASME Class 2, 3, and NF

C-A	(2)	Regenerative Heat Exchanger Welds	UT
C-F-1	(21)	Stainless Steel Piping Welds	UT, PT
	(2)	Stainless Steel Piping Welds	PT
C-F-2	(8)	Carbon Steel Piping Welds	UT, MT
	(4)	Carbon Steel Piping Welds	MT
C-H	(5)	Class 2 System Functional Tests	VT-2
D-A	(9)	Class 3 System Functional Tests	VT-2
	(1)	Class 3 System Hydrostatic Tests	VT-2
D-B	(1)	Class 3 System Functional Tests	VT-2
	(4)	Class 3 System Hydrostatic Tests	VT-2
D-C	(1)	Class 3 System Functional Test	VT-2

13. Abstract of Examinations (continued)

ASME Class 2,3, and NF (continued)

N-F	(257)	Component Supports	VT-3
	(23)	Snubbers	VT-4
			Functional Test

14. Abstract of Results of Examinations and Tests

ASME Class 1

B-F Two Pressurizer safe ends were examined using liquid penetrant. They were not volumetrically examined due to the lack of an acceptable technique.

B-G-1 Five RPV studs were examined by UT and MT techniques. Two RPV studs received an MT examination but not a UT examination as time did not permit.

B-J Three welds had UT indications which were evaluated as root geometry.

One weld had a UT indication which was evaluated as counter bore geometry.

Two welds exhibited UT beam redirection due to dendritic weld structure.

ASME Class 2,3, and NF

C-A One weld on the Regenerative Heat Exchanger exhibited beam redirection due to dendritic weld structure.

C-F-1 Two welds had UT indications which were evaluated as root geometry.

Two welds had UT indications which were evaluated as counter bore geometry.

One weld had four UT indications which were evaluated as root geometry and one indication which was evaluated as ID geometry.

One weld had two UT indications which were evaluated as root geometry and one indication which was evaluated as counter bore geometry.

One weld had a UT indication of geometric origin based on transducer position and the ID/OD profile.

14. Abstract of Results of Examinations and Tests (continued)

ASME Class 2,3, and NF (continued)

- C-F-1 One weld had a UT indication which was evaluated as root geometry and three indications which were beam redirection due to dendritic structure of the weld.
- C-F-2 Two welds had UT indications which were evaluated as root geometry.
- Two welds had UT indications which were evaluated as root and counter bore geometry.
- One weld had a UT indication which was evaluated as counter bore geometry.
- One weld required additional surface conditioning to achieve a successful MT examination.
- D-A The Class 3 Service Water Functional Test was acceptable in the category of leakage, but was unacceptable for surface corrosion. All other pressure tests met the required acceptance criteria.
- N-F Several component supports were identified as having minor problems (i.e. loose nuts, clearances, etc.). Evaluations were performed and the supports were determined operable, and did not fall within IWF-3410.

15. Abstract of Corrective Measures

Welds and Bolted Components

No corrective measures were required as a result of UT examinations. All recorded indications were evaluated and determined to be related to geometry or weld metal structure.

A surface examination (MT) exhibited an unacceptable linear indication which appeared to be a non-relevant condition of undercut or overlap. Further surface conditioning verified the condition and yielded an acceptable re-examination.

Pressure Testing

During testing of the Service Water System, it was noted that an unacceptable quantity of corrosion still exists on the piping OD. Engineering evaluated the condition and determined it to be acceptable for continued operation. This piping is currently being evaluated by a task force for repair/replacement in an upcoming refueling outage. Also during the Service Water hydrostatic test, a bellows was discovered with pin hole leaks. The affected bellows was replaced and tested under the repair/replacement requirements of ASME Section XI.

15. Abstract of Corrective Measures

Component Supports

One RC System support was found with a crack in a portion of a vendor weld. Engineering evaluation was performed to determine system impact. The evaluation and analysis determined that the support was operable. A work request was generated to perform an ASME Section XI repair to the support.

APPENDIX B

REPAIR / REPLACEMENT SUMMARY INDEX

(From the end of the First Refueling through the Second Refueling)

ASME Section XI Repairs/Replacements

<u>Work Request Number</u>	<u>Description</u>
90W003703	Machining of CS-P-128 cylinder head extension piece.
91W003136	Seat repair of FW-V116.
91W004092	Machining of thread in holes 23,25,28,32,33,37,51,& 54 in RC-E-1.
91W004347	Machining of seat on relief valve CC-V363.
91W004485	Installation and seal weld of plug in code safety valve #099.
91W005226	Replacement of internals on RC-V122.
91W005256	Replacement of SF-P-10B stud bolt.
91W005413	Replacement of stem in CBS-V53.
91W006191	Replacement of MS-V409.
91W006236	Replacement of MS-V406.
91W004445	Replacement of bolting on spare RC-V117 S/N 0064.
92W000124	Fabrication of CAP System blind flange.
92W000134	Installation of new oil collection system for A Diesel.
92W000135	Installation of new oil collection system for B Diesel.
92W000314	Replacement of snubber 798-RM-6(S).
92W000330	Replacement of snubber 1307-RM-65A.
92W000331	Replacement of snubber 1301-RM-20.
92W000332	Replacement of snubber 821-RM-10.
92W000338	End bracket rotation on snubber 251-RM-6.
92W000340	End bracket rotation on snubber 204-RM-10.
92W000341	End bracket rotation on snubber 4002-RM-6.
92W000343	End bracket rotation on snubber 13-RM-1.
92W000344	End bracket rotation on snubber 4003-RM-5.

ASME Section XI Repairs/Replacements (continued)

<u>Work Request Number</u>	<u>Description</u>
92W000355	Replacement of internals to MS-V22.
92W000804	Retest from work request 90W003703.
92W000813	I & C support attachment to supports 454-RG-2, 456-RG-1, & 458-RG-5.
92W000856	Installation of new Instrument Air supply to containment.
92W000902	Attachment to support 302-SG-23.
92W000968	Installation of CC System maintenance break flanges.
92W001141	Replace code safety with #0065 (RC-V115).
92W001142	Replace code safety with #0064 (RC-V117).
92W001143	Replace code safety with #0066 (RC-V116).
92W001202	Replacement of SW-S-10 strainer basket.
92W001346	Bolting replacement on valve SW-V5.
92W001347	Bolting replacement on valve SW-V4.
92W001556	S/G A primary manway stud replacement.
92W001557	S/G D primary manway stud replacement.
92W001569	Replacement of internals for MS-V394 and repair of the valve body.
92W001570	Replacement of internals for MS-V393 and repair of the valve body.
92W001612	Support elimination associated with the RTD Bypass Piping elimination.
92W001613	Support elimination associated with the RTD Bypass Piping elimination.
92W001614	Support elimination associated with the RTD Bypass Piping elimination.
92W001615	Support elimination associated with the RTD Bypass Piping elimination.
92W001797	Replacement of valve SW-V3.

ASME Section XI Repairs/Replacements (continued)

<u>Work Request Number</u>	<u>Description</u>
92W001800	Replacement of valve MS-V96.
92W001810	Replacement of disc and installation of anti-rotation lugs on valve CC-V298.
92W001940	Replacement of bolts on handhole of S/G D.
92W001941	Replacement of bolts on handhole of S/G C.
92W001942	Replacement of bolts on handhole of S/G A.
92W001943	Replacement of bolts on handhole of S/G B.
92W001944	Replacement of basket strainer SW-S-11 using s/n #626-A.
92W002248	Removal of valves FW-V408 & FW-V409, and the installation of caps.
92W002268	Installation of valve FW-V408 in the EFW building.
92W002483	Replacement of columns on SW-P-41D.
92W002484	Replacement of columns on SW-P-41C.
92W002799	RTD Bypass piping removal - Loop 1.
92W002800	RTD Bypass piping removal - Loop 2.
92W002801	RTD Bypass piping removal - Loop 3.
92W002802	RTD Bypass piping removal - Loop 4.
92W003126	Installation of flanges on penetrations E58 & E59.
92W003171	Machining of valves CC-V474 and CC-V410.
92W003172	Machining of valve CC-V343.
92W003173	Machining of valve CC-V407.
92W003174	Machining of valve CC-V143.
92W003175	Machining of valves CC-V235, CC-V363, & CC-V364.
92W003176	Machining of valve CC-V486.
92W003177	Machining of valve CC-V647.

ASME Section XI Repairs/Replacements (continued)

<u>Work Request Number</u>	<u>Description</u>
92W003261	Replacement of case studs on SF-P-10A.
92W003262	Replacement of case studs on SF-P-10B.
92W003399	Replacement of bolting on valves RS-V48,49,50, and CS-V84,92,93,99,101,252,257,258,262,264,269,270,272,276,278,284,285,286,287,288,289,290,291,292, & 295.
92W003405	Replacement of bolting on valves CSV87,89,97, 254,259,266,275, & 281.
92W003943	Replacement of valve SW-V31.
92W004039	Replacement of columns on SW-P-110A.
92W004221	Replacement of internals on valve MS-V94.
92W004243	Replacement of flex hose CS-MM-223 for RCP-1A seal injection.
92W004266	Replacement of snubber 1310-RM-6.
92W004282	Replacement of bolting on SW-S-10.
92W004285	End bracket rotation on snubber 4000-RM-5.
92W004290	Repair of glands on pump CC-P-118.
92W004308	Removal of weld indications by metal removal.
92W004340	Replacement of valve CC-V143.
92W004342	Replacement of valve CC-V343.
92W004343	Replacement of valve CC-V407.
92W004363	Machining of S/G A primary manway studs.
92W004364	Machining of S/G D primary manway studs and installation of helicoils and/or inserts.
92W004365	Installation of helicoils/inserts in S/G A.
92W004398	Installation of a 4" weldolet test connection on SW-1806-1.
92W004457	Repair of weld on support 49-SG-1.
92W004501	Replacement of bellows SW-EP-49.

ASME Section XI Repairs/Replacements (continued)

<u>Work Request Number</u>	<u>Description</u>
92W004641	Repair and replacement of train A Service Water piping.
92W004808	Replacement of bolting on valve SW-V108.
92W004809	Replacement of bolting on valve SW-V109.
92W004810	Replacement of bolting on valve SW-V110.
92W004811	Replacement of bolting on valve SW-V111.
92W004812	Replacement of bolting on valve SW-V162.
92W004819	Replacement of bolting on valve SW-V94.
92W004822	Replacement of bolting on valve SW-V99.
92W004855	Replacement of bolting on valve SW-V61.
92W004856	Replacement of bolting on valve SW-V62.
92W005013	Fabrication and installation of blind flange to valve CAP-V2.
92W005129	Replacement of top cap on valve CS-V199.
MPR340530	Installation of bellows to old flanges of SW-EP-49.
92RM2268101	Replacement of #2 seal in RC-P-1A.
92RM2268301	Replacement of #2 seal in RC-P-1C.