INSERVICE INSPECTION
EXAMINATION REPORT

By

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September 17, 1997

Engineering Report

SS-ERP-970003, Revision 0

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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:	5
Period:	3
Interval:	1

Prepared By: Kevin A. Whitney — Date Sept 12, 1997
ISI Coordinator

Approved By: [signature] — Date 9-12-97
Program Support Supervisor

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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 just prior to and during the fifth refueling outage which concluded on June 28, 1997. The fifth refueling outage is in ISI Period 3 and is the next to last outage before completion of the First Ten-Year ISI Interval. Approximately 86% of the Interval 1 examinations have been completed.

1.0 NONDESTRUCTIVE EXAMINATION PROCEDURES

The following procedures were used during the fifth refueling outage inservice inspection. Three procedures utilized (VT, PT, and MT) were North Atlantic Energy Service Corporation (NAESCO) procedures. One automated UT procedure was a vendor procedure approved for use by NAESCO. The remaining procedures used were Yankee Atomic Electric Company (YAEC) procedures approved for use by NAESCO. 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
ES 97-1-38	Automated Ultrasonic Examination of Pressurizer Head-To-Shell Weld
YA-G-1S	Preparation of Welds For Nondestructive Examination
YA-REF-1S	Reference System
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

S2-97-01 Rev. 0
S2-97-02 Rev. 0
S2-97-03 Rev. 1
S2-97-04 Rev. 0
S2-97-05 Rev. 0
S2-97-06 Rev. 1
S2-97-07 Rev. 1
S2-97-08 Rev. 1
S2-97-09 Rev. 0
S2-97-10 Rev. 0
S2-97-11 Rev. 0
S2-97-12 Rev. 0
S2-97-13 Rev. 0
S2-97-14 Rev. 0
S2-97-15 Rev. 0
S2-97-16 Rev. 1
S2-97-17 Rev. 0
S2-97-19 Rev. 0
S2-97-20 Rev. 0
S2-97-21 Rev. 0
S2-97-22 Rev. 0

1.0 NONDESTRUCTIVE EXAMINATION PROCEDURES (continued)

The following techniques were used for the subject examinations: (continued)

YA-UT-4S

S4-97-01 Rev. 0

YA-UT-5S

S5-97-01 Rev. 0
S5-97-02 Rev. 0
S5-97-03 Rev. 0

2.0 SUMMARY REPORT

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

Code Category B-A Pressure Retaining Welds in Reactor Vessel

The following two meridional welds were examined on the Reactor Vessel Head.

RC RPV 101-104-315°	UT examination was performed with no recordable indications.
RC RPV 101-104-45°	UT examination was performed with no recordable indications.

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

Pressurizer Head-To-Shell circumferential weld, RC E-10 09 and the intersecting longitudinal seam weld, RC E-10 08 were examined using an automated time of flight UT technique due to inaccessibility. No unacceptable indications were found. ASME Code required volume could not be achieved. Relief will be pursued.

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

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

One Pressurizer nozzle, RC E-10 S-NZ, and one nozzle inner radii, RC E-10 D-IR were examined by UT with no recordable indications.

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

2.0 SUMMARY REPORT (continued)

Code Category B-E	Pressure Retaining Partial Penetration Welds In Vessels
RC E-10 A-INS	VT-2 (no unacceptable leakage)
RC E-10 I-SAMP	VT-2 (no unacceptable leakage)
RC E-10 HTR No's 01 through 78	VT-2 (no unacceptable leakage)

Code Category B-G-1	Pressure Retaining Bolting, Greater Than 2 in. In Diameter
RC RPV STUD No's 07,08,09,10, 11,12,13,14,15,25, 26,27,28,29,30,31, 32, & 51	UT and MT (no unacceptable indications)
RC RPV NUT No's 07,08,09,10, 11,12,13,14,15,25, 26,27,28,29,30,31, 32, & 51	UT and MT (no unacceptable indications)
RC RPV WASHER No's 07,08,09,10, 11,12,13,14,15,25, 26,27,28,29,30,31, 32, & 51	VT-1 (no unacceptable indications)

2.0 SUMMARY REPORT (continued)

Code Category B-G-2 Pressure Retaining Bolting, 2 in. and Less In Diameter

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

CS 0328-07 P-1A-B	No unacceptable conditions noted.
CS 0331-05 P-1D-B	No unacceptable conditions noted.
RC 0013-01 V22-B	No unacceptable conditions noted.
RC 0013-01 V23-B	No unacceptable conditions noted.
RC 0058-01 V87-B	No unacceptable conditions noted.
RC 0058-01 V88-B	No unacceptable conditions noted.
RC 0074-01 V115-B	No unacceptable conditions noted.
RC 0075-01 V116-B	No unacceptable conditions noted.
RC 0076-01 V117-B	No unacceptable conditions noted.
RC 0097-01 LCV460-B	No unacceptable conditions noted.
RC 0097-01 V81-B	No unacceptable conditions noted.
SI 0201-02 V5-B	No unacceptable conditions noted.
SI 0261-04 V87-B	No unacceptable conditions noted.
SI 0274-01 V151-B	No unacceptable conditions noted.

Code Category B-J Pressure Retaining Welds in Piping

The following Charging System weld was examined as follows:

CS 0331-04 01	Liquid penetrant examination was performed with no unacceptable indications.

The following Reactor Coolant System piping welds were examined as follows:

RC 0001-01 05B	Ultrasonic examination recorded one indication which was seen 360° at varying amplitudes. It exists outside the required coverage area, is not ID connected, and is present in corresponding welds in the canceled Unit 2. Evaluation determined the indication to be signal generated from metallurgical differences between the weld and the base material. Liquid penetrant examination was performed with no unacceptable indications.
RC 0003-01 07B	Liquid penetrant examination was performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category B-J	Pressure Retaining Welds in Piping (continued)
RC 0010-01 05B	Ultrasonic examination recorded one indication which was seen 360° at varying amplitudes. It exists outside the required coverage area, is not ID connected, and is present in corresponding welds in the canceled Unit 2. Evaluation determined the indication to be signal generated from metallurgical differences between the weld and the base material. Liquid penetrant examination was performed with no unacceptable indications.
RC 0013-01 06	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RC 0013-01 07	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RC 0013-01 08	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RC 0013-01 09	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RC 0049-01 05	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RC 0058-01 08	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as root geometry. Liquid penetrant examination was performed with no unacceptable indications.
RC 0058-01 09	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RC 0076-01 01	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RC 0076-01 02	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category B-J	Pressure Retaining Welds in Piping (continued)
RC 0076-01 03	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RC 0093-01 02	Liquid penetrant examination was performed with no unacceptable indications.
RC 0093-01 04	Liquid penetrant examination was performed with no unacceptable indications.
RC 0097-01 07	Liquid penetrant examination was performed with no unacceptable indications.
RC 0097-01 08	Liquid penetrant examination was performed with no unacceptable indications.
RC 0097-01 09	Liquid penetrant examination was performed with no unacceptable indications.
RC 0097-01 10	Liquid penetrant examination was performed with no unacceptable indications.
RC 0097-01 11	Liquid penetrant examination was performed with no unacceptable indications.
RC 0097-01 12	Liquid penetrant examination was performed with no unacceptable indications.
RC 0097-01 13	Liquid penetrant examination was performed with no unacceptable indications.
RC 0097-01 14	Liquid penetrant examination was performed with no unacceptable indications.
RC 0097-01 15	Liquid penetrant examination was performed with no unacceptable indications.
RC 0097-01 16	Liquid penetrant examination was performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category B-J Pressure Retaining Welds in Piping (continued)

RC 0097-01 17	Liquid penetrant examination was performed with no unacceptable indications.

The following Residual Heat Removal System welds were examined as follows:

RH 0158-05 17	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RH 0158-05 18	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RH 0158-05 19	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RH 0158-17 01	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as root geometry. Liquid penetrant examination was performed with no unacceptable indications.
RH 0158-17 02	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

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

SI 0201-02 18	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
SI 0202-02 18	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
SI 0203-02 22	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
SI 0260-02 05	Liquid penetrant examination was performed with no unacceptable indications.
SI 0272-05 10	Liquid penetrant examination was performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category B-J	Pressure Retaining Welds in Piping (continued)
SI 0272-05 11	Liquid penetrant examination was performed with no unacceptable indications.
SI 0272-20 01	Liquid penetrant examination was performed with no unacceptable indications.
SI 0274-01 07	Liquid penetrant examination was performed with no unacceptable indications.
SI 0274-01 08	Liquid penetrant examination was performed with no unacceptable indications.

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 B-N-1 Interior of Reactor Vessel

A remote VT-3 visual examination was conducted on the accessible portions of the Reactor Vessel. No unacceptable conditions were noted.

Code Category C-A	Pressure Retaining Welds in Pressure Vessels
CS E-2 REG-4A	Ultrasonic examination was performed with no unacceptable indications.
CS E-2 REG-4B	Ultrasonic examination was performed with no unacceptable indications.
CS E-2 REG-5A	Ultrasonic examination was performed with no unacceptable indications.
CS E-2 REG-5B	Ultrasonic examination was performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-A	Pressure Retaining Welds in Pressure Vessels (continued)
RC E-11A SEAM-3	Ultrasonic examination was performed with no unacceptable indications.

Code Category C-B	Pressure Retaining Nozzle Welds in Vessels
RC E-11A 11-NZ	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
RC E-11A 11-IR	Ultrasonic examination was performed with no unacceptable indications.

Code Category C-C	Integral Attachments For Vessels, Piping, Pumps, and Valves
MS 4001-00 SV-09A-L	Magnetic particle examination was performed with no unacceptable indications.
MS 4002-00 SV-09A-L	Magnetic particle examination was performed with no unacceptable indications.

Code Category C-F-1	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping

The following Containment Building Spray system piping welds were examined as follows:

CBS 1201-01 08	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1201-01 LD1	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1201-01 LU1	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1201-01 LU2	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-F-1	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping (continued)
CBS 1210-11 02	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1210-11 06	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1210-11 LU3	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1210-11 LU5	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1212-16 10	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1212-16 LU1A	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1215-01 01	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1215-02 08	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1215-03 01	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1215-03 LD2	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CBS 1215-03 LU1	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

The following Charging System piping welds were examined as follows:

CS 0324-01 01	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-F-1 Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping (continued)

CS 0324-01 02	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as root geometry. Liquid penetrant examination was performed with no unacceptable indications.
CS 0328-03 22	Liquid penetrant examination was performed with no unacceptable indications.
CS 0355-01 01	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CS 0355-01 03	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CS 0355-01 04	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as root geometry. Liquid penetrant examination was performed with no unacceptable indications.
CS 0355-06 01	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as root geometry. Liquid penetrant examination was performed with no unacceptable indications.
CS 0358-03 01	Liquid penetrant examination was performed with no unacceptable indications
CS 0358-03 02	Liquid penetrant examination was performed with no unacceptable indications.
CS 0362-01 02	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as root geometry. Liquid penetrant examination was performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-F-1 Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping (continued)

CS 0362-01 03	Ultrasonic examination recorded two indications which were evaluated as root geometry. Liquid penetrant examination was performed with no unacceptable indications.
CS 0364-01 01	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as counterbore. Liquid penetrant examination was performed with no unacceptable indications.
CS 0364-02 01	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CS 0367-02 01	Liquid penetrant examination was performed with no unacceptable indications.
CS 0374-01 02	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CS 0375-01 04	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
CS 0377-01 02	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

The following Residual Heat Removal system piping welds were examined as follows:

RH 0155-02 01	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as root geometry. Liquid penetrant examination was performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-F-1 Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping (continued)

RH 0155-02 32	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as root geometry. Liquid penetrant examination was performed with no unacceptable indications.
RH 0159-01 14	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RH 0159-02 03	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RH 0160-04 01	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RH 0161-01 05	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RH 0179-01 03	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RH 0179-01 05	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.
RH 0180-01 01	Ultrasonic and liquid penetrant examinations were performed with no unacceptable indications.

The following Safety Injection system piping welds were examined as follows:

SI 0257-01 02	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as root geometry. Liquid penetrant examination was performed with no unacceptable indications.
SI 0259-02 12	Liquid penetrant examination was performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-F-1 Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping (continued)

SI 0259-03 01	Liquid penetrant examination was performed with no unacceptable indications.
SI 0270-01 07	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 piping welds were examined as follows:

FW 4607-03 05	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
FW 4607-03 06	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
FW 4607-03 07	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
FW 4607-03 08	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
FW 4607-03 11	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
FW 4607-03 12	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
FW 4607-04 01	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
FW 4607-04 21	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
FW 4608-03 03	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-F-2 Pressure Retaining Welds in Carbon Steel or Low Alloy Steel Piping (continued)

FW 4608-03 04	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
FW 4608-03 06	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
FW 4608-03 07	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as root geometry. Magnetic particle examination was performed with no unacceptable indications.
FW 4608-03 12	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
FW 4608-03 13	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as root geometry. Magnetic particle examination was performed with no unacceptable indications.
FW 4608-04 01	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
FW 4608-04 21	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.

The following Main Steam system piping welds were examined as follows:

MS 4000-01 01	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4000-01 02	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4000-01 LD1	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-F-2	Pressure Retaining Welds in Carbon Steel or Low Alloy Steel Piping (continued)
MS 4000-01 LU1	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4000-02 09	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4000-41 01	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4000-41 06	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4001-02 08	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4001-02 09	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4001-41 01	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4001-41 02	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4001-41 03	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as root geometry. Magnetic particle examination was performed with no unacceptable indications.
MS 4001-41 03B	Magnetic particle examinations was performed with no unacceptable indications.
MS 4001-41 04B	Magnetic particle examinations was performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-F-2	Pressure Retaining Welds in Carbon Steel or Low Alloy Steel Piping (continued)
MS 4001-41 06	Ultrasonic examination recorded two indications seen 360° around the pipe. The indications were evaluated as root geometry. Magnetic particle examination was performed with no unacceptable indications.
MS 4002-02 08	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4002-02 09	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4002-02 10	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4002-02 11	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4002-36 06	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4002-36 LU7	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4002-37 02	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4002-37 03	Ultrasonic examination recorded an indication at varying amplitude for 360° around the pipe. The indication was evaluated as root geometry. Magnetic particle examination was performed with no unacceptable indications.
MS 4002-37 05	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.
MS 4003-37 01	Ultrasonic and magnetic particle examinations were performed with no unacceptable indications.

2.0 SUMMARY RE. ORT (continued)

Code Category C-F-2 Pressure Retaining Welds in Carbon Steel or Low Alloy Steel Piping (continued)

MS 4003-37 05 Ultrasonic examination recorded two indications at varying amplitude for 360° around the pipe. The indications were evaluated as root geometry. Magnetic particle examination was performed with no unacceptable indications.

ISI Supports (NF)

The following supports received a VT-3 / VT-4 visual examination. The Remarks section describes conditions that required evaluation (i.e. clearances, gaps, etc.). Evaluations were performed and the supports were determined to be operable, and did not fall within IWF-3410A.

Support No.	System	Class	Remarks
1-0058-RG-016	RC	2	See problem sheet OR05-20, clearances (EWR 97-0274)
1-0058-RG-017	RC	2	
1-0058-RG-018	RC	2	See problem sheet OR05-06, clearances (EWR 97-0256)
1-0058-SG-013	RC	2	
1-0058-SG-015	RC	2	See problem sheet OR05-19, clearances (EWR 97-0274)
1-0058-SG-019	RC	2	See problem sheet OR05-02, clearances (EWR 97-0256)
1-0058-SH-010	RC	2	Spherical bearing painted over. Paint removed per 97W001410
1-0058-SV-020	RC	2	See problem sheet OR05-01, load settings (EWR 97-0256), Reset per 97W001209
1-0076-RG-001	RC	1	
1-0091-SG-032	RC	1	
1-0157-SV-001A	RH	2	
1-0159-SG-001	RH	2	See problem sheet OR05-08, clearances (EWR 97-0257)

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Remarks
1-0159-SG-006	RH	2	See problem sheet OR05-09, clearances (EWR 97-0257)
1-0160-RG-031	RH	2	
1-0160-SG-012	RH	1	
1-0160-SG-018	RH	2	
1-0160-SG-020	RH	2	
1-0160-SG-030	RH	2	Paint removed from spherical bearings per 97W001410
1-0160-SH-019	RH	2	See problem sheet OR05-18, clearances (EWR 97-0274)
1-0162-SG-006	RH	1	
1-0162-SG-007	RH	1	Paint removed from spherical bearing per 97W001410
1-0178-RG-001	RH	2	
1-0178-SH-002	RH	2	
1-0179-RG-001	RH	2	
1-0179-SG-004	RH	2	
1-0179-SV-005	RH	2	
1-0180-SG-005	RH	1	
1-0180-SG-007	RH	1	
1-0180-SG-008	RH	1	
1-0180-SG-009	RH	1	
1-0180-SG-010	RH	1	
1-0201-RG-011	SI	2	
1-0201-SG-002	SI	2	See problem sheet OR05-28, clearances (EWR 97-0292)
1-0202-RG-001	SI	2	
1-0202-SG-002	SI	2	
1-0204-RG-001	SI	2	See problem sheet OR05-26, clearances (EWR 97-0290)
1-0204-SG-002	SI	2	See problem sheet OR05-26, clearances (EWR 97-0290)
1-0251-RG-002	SI	1	
1-0251-RG-003	SI	1	
1-0251-SG-004	SI	1	
1-0251-SG-010	SI	2	
1-0251-SG-011	SI	2	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Remarks
1-0251-SG-012	SI	2	
1-0251-SG-013	SI	2	
1-0251-SG-014	SI	2	
1-0251-SG-017	SI	2	
1-0251-SG-022A	SI	2	
1-0251-SG-025	SI	2	
1-0251-SG-026	SI	2	
1-0251-SG-027	SI	1	
1-0251-SG-031	SI	2	
1-0251-SG-033	SI	2	
1-0251-SG-034	SI	2	
1-0251-SG-035	SI	2	See problem sheet OR05-05, clearances (EWR 97-0256)
1-0257-SG-001	SI	2	
1-0257-SG-003	SI	2	
1-0257-SG-004	SI	2	
1-0257-SG-005	SI	2	
1-0258-SG-004	SI	2	
1-0258-SG-005	SI	2	See problem sheet OR05-25, clearances (EWR 97-0290)
1-0258-SG-006	SI	2	
1-0258-SG-007	SI	2	
1-0258-SG-008	SI	2	
1-0258-SG-009	SI	2	
1-0258-SG-011	SI	2	Strut will not rotate, loosened per 97W001410
1-0258-SG-012	SI	2	
1-0259-RG-002	SI	2	
1-0260-A-006	SI	2	
1-0260-SG-001	SI	2	See problem sheet OR05-29, clearances (EWR 97-0292)
1-0260-SG-002	SI	2	
1-0260-SG-003	SI	2	
1-0260-SG-004	SI	2	
1-0260-SG-007	SI	2	
1-0260-SG-008	SI	2	See problem sheet OR05-30, clearances (EWR 97-0292)

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Remarks
1-0260-SG-009	SI	2	
1-0261-RG-007	SI	1	See problem sheet OR05-22, clearances (EWR 97-0286)
1-0261-RG-011	SI	1	
1-0261-RG-014	SI	1	
1-0261-SG-002	SI	2	
1-0261-SG-009	SI	1	
1-0261-SG-010	SI	1	
1-0272-RG-034	SI	2	
1-0272-RG-037	SI	2	
1-0273-SG-006	SI	1	
1-0273-SG-007	SI	1	
1-0273-SG-009	SI	1	
1-0273-SG-022	SI	2	
1-0274-SG-005	SI	1	
1-0274-SG-006	SI	1	See problem sheet OR05-24, clearances (EWR 97-0286)
1-0274-SG-015	SI	1	
1-0274-SG-017	SI	1	
1-0274-SG-018	SI	1	
1-0274-SG-019	SI	1	
1-0274-SG-020	SI	1	
1-0274-SG-022	SI	1	
1-0274-SH-014	SI	1	
1-0275-A-014	SI	1	
1-0275-RG-022	SI	1	
1-0275-SG-008	SI	1	
1-0275-SG-009	SI	1	
1-0275-SG-018	SI	1	
1-0275-SG-019	SI	1	
1-0275-SG-020	SI	1	
1-0275-SG-021	SI	1	
1-0275-SH-015	SI	1	See problem sheet OR05-31, drawing does not reflect as-built condition (EWR 97-0295)
1-0324-A-003	CS	2	
1-0324-RG-001	CS	2	
1-0325-RG-001	CS	2	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Remarks
1-0328-A-018	CS	2	Additional inspection due to degraded condition identified on problem sheets OR05-12 & OR05-13.
1-0328-RG-009	CS	2	Additional inspection due to degraded condition identified on problem sheets OR05-12 & OR05-13.
1-0328-RG-010	CS	2	See problem sheet OR05-12, (EWR 97-0263) 1" crack appears on weld. Repaired per 97W001300.
1-0328-RG-016	CS	2	
1-0328-RG-020A	CS	2	
1-0328-RG-024	CS	2	
1-0328-RG-026	CS	2	
1-0328-RG-028	CS	2	
1-0328-SG-012	CS	2	
1-0328-SG-014	CS	2	
1-0328-SG-015	CS	2	
1-0328-SG-017	CS	2	See problem sheet OR05-13, threaded rod disengaged from clevis (EWR 97-0263). Corrected per 97W001208.
1-0328-SG-019	CS	2	
1-0328-SG-020	CS	2	
1-0328-SG-021	CS	2	
1-0328-SG-022	CS	2	
1-0328-SG-023	CS	2	
1-0328-SG-025	CS	2	
1-0328-SG-011	CS	2	
1-0328-SH-027	CS	2	
1-0328-SH-029	CS	2	
1-0330-SG-014	CS	2	
1-0330-SG-015	CS	2	
1-0330-SG-016	CS	2	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Remarks
1-0330-SG-017	CS	2	
1-0330-SG-018	CS	2	
1-0331-A-012	CS	2	
1-0331-RG-001	CS	2	
1-0331-RG-003	CS	2	
1-0331-RG-005	CS	2	
1-0331-RG-007	CS	2	
1-0331-RG-015	CS	2	
1-0331-SG-002	CS	2	
1-0331-SG-006	CS	2	
1-0331-SG-008	CS	2	
1-0331-SG-009	CS	2	
1-0331-SG-010	CS	2	
1-0331-SG-011	CS	2	
1-0331-SG-013	CS	2	
1-0331-SG-014	CS	2	
1-0331-SG-016	CS	2	
1-0331-SH-004	CS	2	
1-0343-SG-008	CS	1	See problem sheet OR05-35, clearances (EWR 97-0309)
1-0343-SG-010	CS	1	
1-0343-SG-011	CS	1	
1-0343-SG-019	CS	1	
1-0343-SG-020	CS	1	
1-0343-SG-021	CS	1	
1-0343-SG-022	CS	1	
1-0355-RG-011	CS	2	
1-0355-RG-018	CS	2	
1-0355-SG-005	CS	2	
1-0355-SG-016	CS	2	
1-0355-SG-017	CS	2	
1-0355-SG-019	CS	2	
1-0356-RG-001	CS	2	
1-0356-SG-002	CS	2	
1-0357-A-014	CS	2	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Remarks
1-0357-RG-001	CS	2	
1-0357-RG-003	CS	2	
1-0357-RG-006	CS	2	See problem sheet OR05-16, clearances (EWR 97-0268)
1-0357-RG-007	CS	2	
1-0357-SG-018	CS	2	
1-0357-SG-020	CS	2	
1-0357-SG-021	CS	2	
1-0357-SG-023	CS	2	
1-0358-RG-006	CS	2	See problem sheet OR05-11, clearances (EWR 97-0263)
1-0358-RG-012	CS	2	
1-0358-RG-015	CS	2	
1-0358-SG-001	CS	2	
1-0358-SG-003B	CS	2	
1-0358-SG-004	CS	2	
1-0358-SG-005	CS	2	
1-0360-A-010	CS	2	
1-0360-RG-014B	CS	2	
1-0360-RG-018	CS	2	
1-0360-SG-001	CS	2	
1-0360-SG-013	CS	2	
1-0360-SG-014A	CS	2	
1-0360-SG-020	CS	2	
1-0360-SH-012	CS	2	
1-0360-SV-019	CS	2	
1-0362-RG-001	CS	2	
1-0364-RG-006	CS	2	
1-0367-RG-001	CS	2	
1-0367-RG-004	CS	2	
1-0367-SG-002	CS	2	
1-0367-SG-003	CS	2	
1-0369-SG-002	CS	2	
1-0369-SG-003	CS	2	
1-0369-SG-004	CS	2	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Remarks
1-0369-SG-005	CS	2	
1-0369-SG-006	CS	2	
1-0371-RG-005	CS	2	
1-0374-RG-001	CS	2	
1-0374-SG-011	CS	2	
1-0377-RG-001	CS	2	
1-0377-RG-003	CS	2	
1-0377-RG-004A	CS	2	
1-0377-SG-002	CS	2	
1-0377-SG-004B	CS	2	
1-0751-SG-002	CC	3	
1-0751-SG-007	CC	3	
1-0751-SG-009	CC	3	
1-0751-SG-013	CC	3	
1-0754-SG-001	CC	2	
1-0761-SG-003	CC	3	
1-0761-SG-008	CC	3	
1-0784-SG-005	CC	3	See problem sheet OR05-10, clearances (EWR 97-0257)
1-0784-SV-003	CC	3	
1-0797-SG-009	CC	3	
1-0797-SG-010	CC	3	
1-0797-SG-011	CC	3	
1-0797-SG-012	CC	3	
1-0827-SG-018	CC	3	
1-0833-SG-010	CC	3	
1-0833-SV-003	CC	3	
1-1201-RG-016	CBS	2	
1-1202-RG-017	CBS	2	
1-1203-SG-001	CBS	2	
1-1203-SG-004	CBS	2	
1-1203-SG-005	CBS	2	
1-1205-RG-009	CBS	2	See problem sheet OR05-14, clearances (EWR 97-0264)
1-1205-RG-012	CBS	2	
1-1205-SG-001	CBS	2	See problem sheet OR05-15, clearances (EWR 97-0264)

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Remarks
1-1206-SG-004	CBS	2	
1-1206-SG-004A	CBS	2	
1-1206-SG-005	CBS	2	
1-1206-SG-006	CBS	2	
1-1206-SG-007	CBS	2	
1-1206-SG-008	CBS	2	
1-1206-SG-009	CBS	2	
1-1208-RG-001	CBS	2	See problem sheet OR05-07, clearances (EWR 97-0256)
1-1208-RG-004	CBS	2	
1-1208-RG-007	CBS	2	See problem sheet OR05-03, clearances (EWR 97-0256)
1-1208-RG-008	CBS	2	
1-1208-SG-002	CBS	2	
1-1210-RG-001	CBS	2	
1-1210-SV-002	CBS	2	
1-1211-SG-003	CBS	2	See problem sheet OR05-21, clearances (EWR 97-0274)
1-1211-SH-006	CBS	2	
1-1212-RG-007	CBS	2	
1-1212-SH-006	CBS	2	
1-1214-A-001	CBS	2	
1-1214-RG-002	CBS	2	
1-1214-RG-061	CBS	2	
1-1214-SG-055	CBS	2	
1-1214-SG-056	CBS	2	
1-1214-SG-057	CBS	2	
1-1214-SG-060	CBS	2	See problem sheet OR05-17, clearances (EWR 97-0268). Support corrected per 97W001619.
1-1214-SG-063	CBS	2	
1-1214-SH-058	CBS	2	
1-1214-SH-059	CBS	2	
1-1215-RG-001	CBS	2	
1-1215-RG-003	CBS	2	
1-1215-RG-005	CBS	2	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

Support No.	System	Class	Remarks
1-1215-SH-004	CBS	2	
1-1215-SV-002	CBS	2	
1-1703-SG-006	SF	3	
1-1703-SG-008	SF	3	
1-1801-SG-002	SW	3	See problem sheet OR05-36, clearances (EWR 97-0233)
1-1801-SG-004	SW	3	
1-1802-RG-009	SW	3	
1-1802-SG-005	SW	3	
1-1810-SG-023	SW	3	
1-1818-A-008	SW	3	
1-1818-SG-007	SW	3	See problem sheet OR05-34, missing hiltis & nuts (EWR 97-0299)
1-1818-SG-013	SW	3	
1-1820-SG-004	SW	3	See problem sheet OR05-34, missing hiltis & nuts (EWR 97-0299)
1-4400-SG-001	DG	3	
1-4400-SG-003	DG	3	
1-4403-SG-003	DG	3	
1-4405-SG-006	DG	3	
1-4415-SG-005	DG	3	
1-4417-SG-006	DG	3	
1-4606-RM-007A	FW	2	
1-4607-RG-032	FW	2	
1-4607-RM-008A	FW	2	
1-4608-RM-008A	FW	2	Restake spherical bearing per 97W001410
1-4609-RG-006A	FW	2	
1-4609-RM-007A	FW	2	
1-4609-RM-008A	FW	2	
1-4609-SG-004A	FW	2	See problem sheet OR05-23, clearances (EWR 97-0288)
1-4609-SG-009	FW	2	
1-4609-SG-010	FW	2	

2.0 SUMMARY REPORT (continued)

Class 1 ISI Pressure Test

Procedure No.	Code Category	Title
EX1810.101	B-P	Class 1 RC System Functional Test

Class 2 and Class 3 ISI Pressure Tests

Procedure No.	Code Category	Title
EX1810.203	C-H,D-A	RWST & SAT Functional Test
EX1810.204	C-H	VCT & Piping Functional Test
EX1810.207	C-H	RHR Train A Functional Test
EX1810.208	C-H	RHR Train B Functional Test
EX1810.209	C-H	SF Cleanup Functional Test
EX1810.214	C-H	IA System Penetration Functional Test
EX1810.216	C-H	Low Head Injection Functional Test
EX1810.217	C-H	Service Air System Penetration Functional Test
EX1810.218	C-H	RMW System Penetration Functional Test
EX1810.221	C-H	FP System Penetration Functional Test
EX1810.223	C-H	Loops A & D Main Steam Functional Test
EX1810.224	C-H	Loops B & C Main Steam System Functional Test
EX1810.225	C-H	SB System Functional Test
EX1810.227	C-H	WLD System Sump Penetration Functional Test
EX1810.229	C-H	CS System Letdown Functional Test
EX1810.302	D-A	Service Water System Train B Functional Test
EX1810.303	D-A,D-B,D-C,C-H	Primary Component Cooling Loop B Functional Test
EX1810.305	D-A	PCCW Thermal Barrier System Functional Test
EX1810.313	D-A	DG Cooling Water System Train B Functional Test

2.0 SUMMARY REPORT (continued)

Class 2 and Class 3 ISI Pressure Tests (continued)

Procedure No.	Code Category	Title
EX1810.314	D-A,D-B	DG Starting Air System Train B Functional Test
EX1810.319	D-A	DG Fuel Oil System Train B Functional Test
EX1810.321	D-A	DG Lube Oil System Train B Functional Test

Class 2 and Class 3 ISI Pressure Tests

The above tests successfully underwent a VT-2 visual examination. Minor packing and flange boric acid deposits were found during the examinations. They were added to the work document for boric acid cleanup. There were no unacceptable conditions found during the testing.

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 5/10/97 to 6/27/97

9. Inspection Period Identification Third 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 Sept. 6, 1995 (SIIR)

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. 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.

15. Abstract of Corrective Measures.

See attached Abstract.

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 N/A
(if applicable)

Expiration Date N/A

Signed K A Whitney, ISI Coordinator Date Sept. 11, 1997
(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 and Insurance Co. of Hartford, CT have inspected the components described in the Owner's Report during the period 5/10/97 to 6/23/97, 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.

(Inspector's Signature)

Commissions NH202 "N AND I"
National Board, State, Province, and Endorsements

Date 9/12/97

13. Abstract of Examinations

ASME Class 1

ASME Code Category	No.	Components Examined	Method
B-A	(2)	Reactor Vessel Head Meridional Welds	UT
B-B	(1)	Steam Generator Head Weld	UT
	(2)	Pressurizer Circumferential and Longitudinal Shell-to-Head Welds	UT
B-D	(1)	Pressurizer Nozzle	UT
	(1)	Pressurizer Nozzle Inner Radius	UT
	(2)	Steam Generator Nozzle	UT
	(2)	Steam Generator Nozzle Inner Radius	UT
B-E	(2)	Pressurizer Instrument Nozzles	VT-2
	(78)	Pressurizer Penetration Welds	VT-2
B-G-1	(18)	RPV Stud	UT,MT
	(18)	RPV Nut	VT-1
	(18)	RPV Washer	VT-1
B-G-2	(12)	Valve Bolting	VT-1
	(2)	Piping Flange Connection	VT-1
B-J	(20)	Piping Welds	UT,PT
	(21)	Piping Welds	PT
B-N-1	(1)	Reactor Vessel Interior	VT-3
B-P	(1)	System Leakage Test Conducted on all Class 1 Systems	VT-2

13. Abstract of Examinations (continued)

ASME Class 2

ASME Code Category	No.	Components Examined	Method
C-A	(4)	Regenerative Heat Exchanger Welds	UT
	(1)	Steam Generator Girth Weld	UT
C-B	(1)	Steam Generator Feedwater Nozzle Weld	UT,MT
	(1)	Steam Generator Feedwater Nozzle Inner Radius	UT
C-C	(2)	Piping Integral Attachments	MT
C-F-1	(38)	Stainless Steel Piping Welds	UT,PT
	(7)	Stainless Steel Piping Welds	PT
C-F-2	(40)	Carbon Steel Piping Welds	UT,MT
	(2)	Carbon Steel Piping Welds	MT
C-H	(16)	Class 2 System Functional Test	VT-2

ASME Class 3 and NF

ASME Code Category	No.	Components Examined	Method
D-A	(8)	Class 3 System Functional Test	VT-2
D-B	(2)	Class 3 System Functional Test	VT-2
D-C	(3)	Class 3 System Functional Test	VT-2
NF	(299)	Component Supports	VT-3 VT-4

14. Abstract of Results of Examinations and Tests

ASME Class 1

B-B One Pressurizer head-to-shell circumferential weld and the intersecting longitudinal weld were examined but full ASME Code coverage could not be achieved. Relief will be pursued.

ASME Class NF

N-F Several component supports were identified as having minor problems (i.e. clearances, gaps, etc.). Evaluations were performed and the supports were determined operable, and did not fall within IWF-3410.

15. Abstract of Corrective Measures

Welds

No corrective measures were required as a result of UT examinations. All recorded indications were evaluated and verified to be related to geometry.

Pressure Testing

No corrective measures were required as a result of pressure testing visual examinations.

Component Supports

There were a few corrective actions taken on supports identified during visual examinations.

- One support was found with a crack in a tack weld. A weld repair was performed.
- One support was reworked due to clearances being outside acceptable tolerances.
- Three supports had paint removed from their spherical bearings.

All of these supports were evaluated by Engineering and determined to be operable in their as-found conditions.

APPENDIX B

REPAIR / REPLACEMENT SUMMARY INDEX

(From the end of the Fourth Refueling through the Fifth Refueling)

ASME Section XI Repair / Replacement

Work Request	Component	Title
90W002610	394-RG-12	Stow support attachment
90W006021	Spare snubber S/N-1826	Spare snubber PMH-2500 rebuild
93W002571	1801-SG-65	Repair copper shielding on support
93W002572	1802-SG-53	Repair copper shielding on support
93W002573	1816-SG-7	Repair copper shielding on support
93W002574	1817-SG-7	Repair copper shielding on support
95RM24325600	SW-P-41D (spare)	SW-P-41D normal pump overhaul (spare)
95W002631	CBS-V10	Machining of wedge
95W002948	MS-PV-3002	Machining of the Plug
95W003001	MS-V50	Replacement of main steam safety MS-V50
96RM23721600	SW-P-41C	Replacement of SW-P-41C
96RM23722600	SW-P-41D	Installation of new pump columns/bowl for slot SW-P-41D
96W000075	MS-V22	Replacement of main steam safety MS-V22
96W000076	MS-V10	Replacement of main steam safety MS-V10
96W000132	CC-V1272 and CC-V1275, Piping	Installation of the CC cross connect, Installation of Valves
96W000133	CC-V1268	Installation of valves and piping
96W000134	CC-V1267 and Piping	Installation of CC crossconnect and valve
96W000135	CC-V1265 and Piping	Installation of CC piping and valve
96W000313	SI-P-6A	SI pump Seal Replacement
96W000314	SI-P-6B	SI pump Seal Replacement
96W000315	CS-V158	Replacement of stem and disc
96W000315	330-RG-6 330-SG-7	Rework Support to Allow Proper Alignment to Valve CS-V158
96W000315	330-RG-6 330-SG-7	Base Metal Repair to Support for Valve CS-V158
96W000316	CS-V154	Replacement of stem and disc

Work Request	Component	Title
96W000480	FW-V153	Temporary repair of the valve FW-V153 by injection.
96W000486	FW-V153	Replacement of valve
96W000486	FW-V153	Replacement of Feedwater piping
96W000558	MS-V54	Replacement of main steam safety MS-V54
96W000559	MS-V51	Replacement of main steam safety MS-V51
96W000640	CS-V693	Seal welding to bonnet
96W000738	MS-V24	Replacement of main steam safety MS-V24
96W000739	MS-V26	Replacement of main steam safety MS-V26
96W000941	SW-P-41D	Machining of the stuffing box on SW-P-41D
96W000942	SW-P-41C	Machining of the stuffing box on SW-P-41C
96W000957	DG-V29A	Replacement of control valve
96W001016	RC-E-11D	Repalcement of bolting on the secondary manway
96W001016	RC-E-11D	Replacement of bolting in the 'D' S/G handhole
96W001017	RC-E-11C	Repalcement of bolting on the secondary manway
96W001017	RC-E-11C	Replacement of bolting in the 'C' S/G handhole
96W001018	RC-E-11B	Repalcement of bolting on the secondary manway
96W001018	RC-E-11B	Replacement of bolting in the 'B' S/G handhole
96W001019	RC-E-11A	Replacement of bolting in the 'A' S/G handhole
96W001019	RC-E-11A	Repalcement of bolting on the secondary manway
96W001024	FW-P-37A	Replacement of seal
96W001435	MS-V394	Replacement of the trim assembly to MS V394
96W001574	CS-V122; CS-V1251	Installation/Replacement of seal injection valves
96W001575	CS-V123; CS-V1252	Installation/Replacement of seal injection valves
96W001578	CS-V126; CS-V1253	Installation/Replacement of seal injection valves
96W001579	CS-V127; CS-V1254	Installation/Replacement of seal injection valves
96W001630	RC-E-1	Repair of Reactor Vessel Stud Hole

Work Request	Component	Title
96W001631	RC-E-1	Replacement of Reactor Vessel Stud
96W001831	1810-SG-32	I & C Support Attachment
96W001952	SW-V20	Bolting replacement of SW-V20 joint & spool joints downstream of valve
96W001952	SW-V20	Replacement of SW bolting
96W001952	1814-SG-2	Attachment of conduit support
96W002048	DG-E-42A	Bolting replacement
96W002116	CBS V-10	Attachment of Instrument Support
96W002148	MS-PV-3001	Installation of new plug and stem assembly and seat ring to MS-PV-3001
96W002174	DG Piping	Piping alignment correction on DG A fuel oil line
96W002253	SI-V88	Seal welding to bonnet
96W002254	SI-V91	Base metal weld repair to valve body and bonnet
96W002254	SI-V91	Seal welding to bonnet
96W002254	SI-V91	Replacement of cap and base metal repair
96W002254	SI-V91	Replacement of Valve
96W002341	CS-FE-136	Replacement of flow element and bolting (if required)
96W002386	SW-V114	Valve replacement
96W002660	6782-SG-2	Support Installation
96W002660	809-RG-9	Support Rework
96W002660	CS-P-2A & B	Installation of Alternate cooling to charging pumps
96W002743	SI-FE-924	Installation of new orifice in the SI cold leg
96W002827	4405-RG-7 & 1810-RG-4	Support Modification
96W002863	1815-RG-3	Support Modification
97RM22682001	RC-P-1B	Replacement of the pump seal cartridge
97RM22684001	RC-P-1D	Replacement of the pump seal cartridge
97RM22612901	CBS-V12	Machining of disc

Work Request	Component	Title
97W000373	CC-V309,CC-E17B	Replacement of CC piping, Heat Exchanger and Valves
97W000374	CC-V15,CC-E17A	Replacement of CC piping, Heat Exchanger and Valves
97W000375	1827-SG-3	Support Modification
97w000450	CGC-V25	Seal welding to bonnet
97W000451	1A-V531	Repair/Replacement of the internals to 1A-V531
97W000462	CS-V496	Replacement of check valve internals
97W000590	FW-P-37A	Replacement of seal
97W000591	FW-P-37B	Replacement of seal
97W000608	SW-V94; piping	Replacement of 'A' train SW piping, and Valve
97W000609	SW-V17	Replacement of bolting to SW valve installation
97W000609	1832-RG-1	Support Modification
97W000609	1832-SV-02	Support Modification
97W000826	FW-V155	Repair or replace the pl[illegible]g to the valve
97W001300	328-RG-10	Repair of cracked weld
97W001447	CBS-V18	Machining of disc
97W001619	1214-SG-60	Modification of ISI Support
97W001665	SI-FE-924;925;926, and 927	Replacement of flow orifices
97W001669	SI-FE-980; 981; 982; and 983	Replacement of flow orifices
97W001698	1832-RG-1 & 1832-SV-2	Removal of pipe supports
97W001698	SW-V99	Valve Replacement
97W001800	CBS-TK-101A	Replacement of bolting material for CBS-TK-101A