

INSERVICE INSPECTION
EXAMINATION REPORT

SEABROOK STATION
NEW HAMPSHIRE YANKEE

July 29, 1991 through October 7, 1991

Prepared By:

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1-2-92

Date

Approved By:

Gregory J. Khan
Program Support Manager

1-2-92

Date

PREFACE

This summary report covers the inservice inspection of Seabrook Station during the period July 29, 1991 through October 7, 1991.

Included in this report is the NIS-1 Form as required by the provisions of ASME XI.

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FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner New Hampshire Yankee, P. O. Box, 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 7/29/91 to 10/7/91
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 3 through 4. Statement concerning status of work required for the Inspection Plan is included in the Conclusion.
14. Abstract of Results of Examinations and Tests.

See attached Abstract, Pages 4 through 6.
15. Abstract of Corrective Measures.

See attached Abstract, Page 6.

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 2, 1992
(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 X HSB I & I Co of HARTFORD, CT have inspected the components described in the Owner's Report during the period JULY 29, 1991 to OCTOBER 7, 1991, 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 NBCSI
National Board, State, Province, and Endorsements

Date JANUARY 2, 1992

X HARTFORD STEAM BOILER INSPECTION INSURANCE COMPANY

13. Abstract of Examinations

ASME Class 1

<u>ASME Code Category</u>	<u>No.</u>	<u>Components Examined</u>	<u>Method</u>
B-A	(2)	Reactor Vessel Head Circumferential Weld Reactor Vessel Head Meridional Weld Reactor Vessel Head-to-Flange Weld	UT UT UT, MT
B-B	(1) (1) (1)	Pressurizer Head Circumferential Weld Pressurizer Head Meridional Weld Steam Generator "A" Tubesheet-to-Head Weld	UT UT UT
B-D	(3) (1)	Nozzle-to-Vessel Welds Nozzle Inside Radius Section	UT UT
B-G-2	(1) (18)	Pump - Bolts, Studs, and Nuts Valves - Bolts, Studs, and Nuts	VT-1 VT-1
B-H	(1)	Integrally Welded Attachment	MT
B-J	(41)	Piping Welds	UT, PT
B-N-1		Interior of Reactor Vessel	VT-3
B-P		System Leakage Test Conducted on all Class 1 Systems	VT-2

ASME Class 2, 3, and NF

<u>ASME Code Category</u>	<u>No.</u>	<u>Components Examined</u>	<u>Method</u>
C-A	(2)	RHR Heat Exchanger Welds	UT
C-B	(2)	RHR Heat Exchanger Nozzles	UT, PT
C-C	(1)	Integrally Welded Attachment	PT
C-F-1	(27)	Stainless Steel Piping Welds	UT, PT
C-F-2	(30)	Carbon Steel Piping Welds	UT, MT
C-H	(7)	Class 2 System Functional Tests	VT-2
D-A	(7) (2)	Class 3 System Functional Tests Class 3 System Hydrostatic Tests	VT-2 VT-2
D-B	(4) (3)	Class 3 System Functional Tests Class 3 System Hydrostatic Tests	VT-2 VT-2
D-C	(2) (2)	Class 3 System Functional Tests Class 3 System Hydrostatic Tests	VT-2 VT-2

13. Abstract of Examinations (continued)

Component Supports (NF)

<u>ASME Code Category</u>	<u>No.</u>	<u>Components Examined</u>	<u>Method</u>
	(248)	Component Supports	VT-3/VT-4
	(14)	Snubbers	Functional Test

14. Abstract of Results of Examinations and Tests

ASME Class 1

B-B An acceptable indication was found on the Pressurizer bottom head to shell girth weld RC E-10 01. The indication was determined to be slag inclusion. This was verified through review of construction radiographs.

B-G-2 Inspection of bolting yielded 10 valves being rejected due to existence of boric acid residue. Areas were cleaned and subsequently re-examined. During plant start-up from refueling, a walkdown of Class 1 piping was conducted for evidence of leakage. No leakage was identified.

Two valves were rejected for bolting that lacked full thread engagement. Engineering evaluation found them acceptable for continued service. This condition was determined to previously exist since plant construction.

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

Two welds had multiple UT signals due to root reflector and beam redirection to the ID due to columnar grain structure of the weld metal.

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

One weld had numerous PT indications on the weld area and base material. Surface conditioning by flapper wheel removed the indications.

One weld had an unacceptable linear indication that was successfully re-examined after surface conditioning using a flapper wheel.

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

ASME Class 2, 3, and NF

- C-A Two girth welds were examined by UT on the "B" RHR heat exchanger. The 0° longitudinal scans and the 45° shear wave scans found no indications in the two weldments other than geometrical. These geometrical indications were determined to be internal baffles and nozzle supports and confirmed with preservice data and fabrication drawings. The 60° shear wave scan on the bottom head-to-shell weld recorded midwall and ID reflectors intermittently, over 360° of the vessel weld. The ID reflectors were determined to be the attachment welds (these are the same as noted on the 45° scan). Utilizing enhanced techniques, the midwall indications were evaluated to be metallurgical in nature, originating from the grain structure and not from any discontinuity.
- C-B Two nozzles were examined by UT on the "B" RHR heat exchanger. The longitudinal seam on nozzle "A" displayed two indications on its entire examined length. They were evaluated to not be indications as the signals could be dampened at the OD surface on top of the weld. Both nozzles showed two indications from the axial scans. One indication was due to reflection from the face of the weld and/or reinforcement pad surface. The other indication was determined to be a root indications from the ID of the nozzle-to-shell weld.
- PT results from these two nozzles were rejectable due to weld bead roughness. These welds were not prepared for a solvent removable penetrant examination during construction. Welds required grinding in order to achieve an acceptable penetrant examination. A visual examination was performed in order to verify design dimensional requirements of the weld after grinding.
- C-C PT examination of the "B" RHR heat exchanger support skirt yielded rejectable results due to surface condition and rough bead placement. Grinding was required to achieve a successful re-examination.
- C-F-1 One weld had a UT indication which was evaluated as counter bore geometry.
- Three welds exhibited UT beam redirection due to dendritic weld structure.
- One weld had two indications. One was evaluated as counter bore geometry, the other as beam redirection due to dendritic weld structure.
- Seven welds required surface conditioning by flapper wheel in order to achieve a successful PT examination.
- C-F-2 Seven welds exhibited UT indications which were evaluated as root geometry.
- One weld had a UT indication that was evaluated as OD geometry and verified by dampening.

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

ASME Class 2, 3, and NF

C-F-2 One weld had three indications. One was evaluated as OD geometry, and (con't) the two evaluated as root geometry.

One weld required surface conditioning by flapper wheel 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.

NF Four hydraulic snubbers were found with unacceptable fluid conditions. These snubbers were determined to be operable and evaluations performed to determine system effects.

Additional component supports were identified as having failed visually (i.e., loose nuts, light corrosion). Evaluations were performed and the supports were determined operable, and did not fall within IWF-3410. Work requests were generated to correct these conditions and to perform VT-3 and VT-4 examinations to verify their completeness.

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.

Surface examinations (PT & MT) that exhibited indications were determined to be mostly grinding marks and were resolved by surface conditioning with a flapper wheel. "B" RHR nozzle and skirt welds required grinding due to their rough surfaces and bead placement. Their examinations were also acceptable once prepared for surface examination.

Visual examination of bolted components yielded similar conditions. A few valves required cleaning to remove evidence of boric acid in order to meet the acceptance criteria. From a previously existing condition, two valves were found to have bolting which did not meet full thread engagement criteria. Engineering evaluation determined them to be acceptable for continued service.

The above examinations conducted during this ISI did not result in any ASME Section XI repairs.

Pressure Testing

During testing of the Service Water System, it was noted that an unacceptable quantity of corrosion existed on the piping OD. Engineering evaluated the condition and determined it to be acceptable for continued operation with a further evaluation of conditions to be reviewed next refueling.

DETAILED ISI SUMMARY

1.0 NONDESTRUCTIVE EXAMINATION PROCEDURES

The following procedures were used during refueling outage #1 inservice inspection. Three procedures utilized (VT, PT, MT), were New Hampshire Yankee (NHY) procedures. The remaining procedures used were Yankee Atomic Electric Company (YAEC) procedures approved for use by NHY Station Operation Review Committee (SORC). YAEC serves as the certifying agent in NDE for NHY.

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 Examination - General Requirements
YA-UT-2S, Ultrasonic Testing of Welds
YA-UT-4S, Ultrasonic Examination of Nozzle Inner Radii
YA-UT-112S, Ultrasonic Thickness Measurement

The following techniques were used for the subject examinations:

YA-UT-2S

S2-91-01 Rev. 1	S2-91-11 Rev. 2
S2-91-02 Rev. 1	S2-91-12 Rev. 1
S2-91-03 Rev. 1	S2-91-13 Rev. 1
S2-91-04 Rev. 1	S2-91-14 Rev. 0
S2-91-05 Rev. 1	S2-91-15 Rev. 2
S2-91-06 Rev. 0	S2-91-16 Rev. 0
S2-91-07 Rev. 0	S2-91-17 Rev. 1
S2-91-08 Rev. 0	S2-91-18 Rev. 0
S2-91-09 Rev. 0	S2-91-19 Rev. 0
S2-91-10 Rev. 0	

YA-UT-4S

S4-91-01 Rev. 0
S4-91-02 Rev. 0

2.0 SUMMARY REPORT

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

Code Category B-A

Pressure Retaining Welds in Reactor Vessel

The following examinations were performed on the reactor vessel head. One third of the head was examined from stud hole #32 through #50 including two meridional welds.

RC RPV 103-101

UT examination was performed on this upper head circumferential weld. Indications recorded were evaluated and determined to be geometric reflectors due to CRD penetrations. These were confirmed through review of PSI data.

RC RPV 101-101

UT and MT examinations were performed on this head-to-flange weld with no recordable indications.

RC RPV 101-104-135°

UT examination was performed on this meridional weld with no recordable indications.

RC RPV 101-104-225°

UT examination was performed on this meridional weld with no recordable indications.

Code Category B-B

Pressure Retaining Welds in Vessels Other Than Reactor Vessels

Ultrasonic Examination was performed on two pressurizer shell welds. Girth weld RC E-10 01 revealed one acceptable indication which was evaluated to be a slag inclusion. This was verified through review of construction radiographs. Longitudinal seam RC E-10 03 was examined with no recordable indications.

Ultrasonic examination was also performed on one steam generator weld. Weld RC E-11A Seam 1 exhibited numerous indications of which only one met the recording criteria of Article 4 of Section V. All were determined to be spot laminar indications.

Code Category B-D

Full Penetration Welds of Nozzles in Vessels

The pressurizer spray nozzle and its inner radius, RC E-10 SP-NZ and RC E-10 SP-IR, were examined by UT with no recordable indications. Two steam generator nozzles, RC E-11A 2A-NZ and RC E-11A 2B-NZ, were also UT'd with no recordable indications.

Code Category B-G-2

Pressure Retaining Bolting 2" and Less in Diameter

The following components had bolting visually examined (VT-1) in-place and under tension.

CS 0330-05 P-1C-B

No unacceptable conditions noted.

CS 0366-02 V181-B

No unacceptable conditions noted.

2.0 SUMMARY REPORT (continued)

Code Category B-G-2 (continued)

Pressure Retaining Bolting 2" and Less in Diameter

CS 0366-02 V182-B	Rejected - Evidence of boric acid. Condition evaluated, area cleaned and successfully re-examined.
RC 0021-01 PCV455B-B	Rejected - Inadequate thread engagement. Condition evaluated by Engineering and determined to be acceptable for continued service.
RC 0021-01 PCV455A-B	Rejected - Inadequate thread engagement. Condition evaluated by Engineering and determined to be acceptable for continued service.
RC 0093-01 V17-B	Rejected - Evidence of boric acid. Condition evaluated, area cleaned and successfully re-examined.
RH 0155-05 V15-B	No unacceptable conditions noted.
RH 0155-05 V59-B	Rejected - Evidence of boric acid. Condition evaluated, area cleaned and successfully re-examined.
RH 0158-05 V29-B	Rejected - Evidence of boric acid. Condition evaluated, area cleaned and successfully re-examined.
RH 0158-05 V63-B	Rejected - Evidence of boric acid. Condition evaluated, area cleaned and successfully re-examined.
RH 0162-02 V61-B	Rejected - Evidence of boric acid. Condition evaluated, area cleaned and successfully re-examined.
SI 0201-02 V6-B	No unacceptable conditions noted.
SI 0202-02 V17-B	Rejected - Evidence of boric acid. Condition evaluated, area cleaned and successfully re-examined.
SI 0202-02 V21-B	No unacceptable conditions noted.
SI 0203-02 V32-B	Rejected - Evidence of boric acid. Condition evaluated, area cleaned and successfully re-examined.
SI 0203-02 V36-B	No unacceptable conditions noted.
SI 0251-07 V82-B	No unacceptable conditions noted.

2.0 SUMMARY REPORT (continued)

Code Category B-G-2 (continued)

Pressure Retaining Bolting 2" and Less in Diameter

SI 0272-05 V143-B

Rejected - Evidence of boric acid. Condition evaluated, area cleaned and successfully re-examined.

SI 0275-04 V155-B

Rejected - Evidence of boric acid. Condition evaluated, area cleaned and successfully re-examined.

Code Category B-H

Integral Attachments For Vessels

Magnetic particle examination was performed on the pressurizer skirt weld, RC E-10 Skirt, with no recordable indications.

Code Category B-J

Pressure Retaining Welds in Piping

The following Charging System piping welds were inspected as follows:

CS 0330-05 01

Liquid penetrant examination performed - no unacceptable indications.

CS 0330-05 02

Liquid penetrant examination performed - no unacceptable indications.

CS 0366-02 03

Liquid penetrant examination performed - no unacceptable indications.

CS 0366-02 04

Liquid penetrant examination performed - no unacceptable indications.

CS 0366-02 05

Liquid penetrant examination performed - no unacceptable indications.

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

RC 0007-01 05B

Ultrasonic and liquid penetrant examination performed - no unacceptable indications.

RC 0021-01 14

Ultrasonic examination revealed an indication at varying amplitudes for 360° around the pipe. Evaluation determined that the beam redirection was due to dendritic weld structure. Liquid penetrant examination was performed with no unacceptable indications.

RC 0048-C1 13

Ultrasonic examination recorded 2 indications at varying amplitudes for 360° around the pipe. Evaluation determined that the beam redirection was due to dendritic weld structure. Liquid penetrant examination was performed with no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category B-J (continued)

Pressure Retaining Welds in Piping

RC 0048-01 18	Ultrasonic examination revealed an indication at varying amplitudes for 360° around the pipe. Evaluation determined that the beam redirection was due to dendritic weld structure. Liquid penetrant examination revealed an unacceptable indication which was successfully re-examined after surface conditioning by flap wheel.
RC 0048-01 20	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
RC 0048-01 21	Ultrasonic examination recorded 2 indications at varying amplitudes for 360° around the pipe. Evaluation determined that the beam redirection was due to dendritic weld structure. Liquid penetrant examination was performed with no unacceptable indications.
RC 0048-01 22	Ultrasonic examination revealed an indication at varying amplitudes for 360° around the pipe. Evaluation determined that the beam redirection was due to dendritic weld structure. Liquid penetrant examination was performed with no unacceptable indications.
RC 0048-01 23	Ultrasonic examination revealed an indication at varying amplitudes for 360° around the pipe. Evaluation determined that the beam redirection was due to dendritic weld structure. Liquid penetrant examination was performed with no unacceptable indications.
RC 0048-02 01B	Liquid penetrant examination performed - no unacceptable indications.
RC 0048-02 04	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
RC 0048-02 05	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
RC 0049-01 01	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
RC 0097-01 05	Liquid penetrant examination performed - no unacceptable indications.
RC 0097-01 06	Liquid penetrant examination performed - no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category B-J (continued)

Pressure Retaining Welds in Piping

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

- | | |
|---------------|--|
| RH 0155-05 02 | Ultrasonic examination recorded an indication which was evaluated as root reflection and beam redirection due to columnar grain structure of the weld. Liquid penetrant examination was performed with no unacceptable indications. |
| RH 0155-05 03 | Ultrasonic examination recorded four indications. Two of the indications were evaluated as root geometry and the other two evaluated as beam redirection due to columnar grain structure of the weld metal. Liquid penetrant examination revealed numerous linear indications which were corrected by surface conditioning and successfully re-examined. |
| RH 0155-05 04 | Ultrasonic examination recorded 2 indications at varying amplitude for 360° around the pipe. Evaluation determined that the beam redirection was due to columnar grain structure of the weld metal. Liquid penetrant examination was performed with no unacceptable indications. |
| RH 0162-02 04 | Ultrasonic examination recorded an indication which was evaluated as root geometry. Liquid penetrant examination was performed with no unacceptable indications. |
| RH 0162-02 05 | Ultrasonic examination recorded an indication which was evaluated as root geometry. Liquid penetrant examination was performed with no unacceptable indications. |
| RH 0162-02 06 | Ultrasonic and liquid penetrant examination performed - no unacceptable indications. |
| RH 0162-02 09 | Ultrasonic and liquid penetrant examination performed - no unacceptable indications. |
| RH 0162-02 10 | Ultrasonic and liquid penetrant examination performed - no unacceptable indications. |

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

- | | |
|---------------|--|
| SI 0202-02 02 | Ultrasonic examination recorded an indication which was evaluated as root geometry. 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 0202-02 03	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
SI 0202-02 04	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
SI 0203-02 07	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
SI 0203-02 08	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
SI 0251-06 01	Liquid penetrant examination performed - no unacceptable indications.
SI 0251-06 02	Liquid penetrant examination performed - no unacceptable indications.
SI 0251-07 01	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
SI 0251-07 05	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
SI 0251-07 06	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
SI 0272-05 06	Liquid penetrant examination performed - no unacceptable indications.
SI 0272-05 07	Liquid penetrant examination performed - no unacceptable indications.
SI 0275-04 06	Liquid penetrant examination performed - no unacceptable indications.
SI 0275-04 07	Liquid penetrant examination performed - no unacceptable indications.

Code Category B-N-1

Interior of Reactor Vessel

A remote visual examination was conducted using a mini-rover submarine. No unacceptable conditions were noted.

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.

2.0 SUMMARY REPORT (continued)

Code Category C-A

Pressure Retaining Welds in Pressure Vessels

Ultrasonic examination was performed on the "B" RHR heat exchanger girth welds RH E-9B 01B and RH E-9B 02B. Indications have been extensively described in the Item #14 Abstract.

Code Category C-B

Pressure Retaining Nozzle Welds in Vessels

Ultrasonic and liquid penetrant examinations were performed on the "B" RHR heat exchanger inlet nozzle RH-E-9B NZA and outlet nozzle RH E-9B NZB. Indications have been extensively described in the Item #14 Abstract.

Code Category C-C

Integral Attachments for Vessels, Piping, Pumps, and Valves

Liquid penetrant examination was performed on the "B" RHR heat exchanger weld RH E-9B Skirt. The weld was rejectable due to rough surface condition and weld bead placement. Grinding was required to achieve a successful re-examination.

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 inspected as follows:

CBS 1208-01 02	Ultrasonic examination recorded 2 indications at varying amplitudes for 360° around the pipe. Evaluation determined that the beam redirection was due to dendritic weld structure. Liquid penetrant examination was performed with no unacceptable indications.
CBS 1208-01 LU10	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
CBS 1208-02 05	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
CBS 1208-02 LD20	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.
CBS 1216-02 20	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.

The following Charging System piping welds were inspected as follows:

CS 0330-01 18	Liquid penetrant examination performed - no unacceptable indications.
CS 0331-01 11	Liquid penetrant examination revealed numerous indications which were corrected by surface conditioning and successfully re-examined.
CS 0363-02 01	Ultrasonic and liquid penetrant examination performed - no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-F-1

Pressure Retaining Welds , Austenitic Stainless Steel or High Alloy Piping

CS 0369-02 06 Ultrasonic examination recorded an indication which was evaluated as counter bore geometry. Liquid penetrant examination recorded multiple indications which were successfully re-examined after surface conditioning.

CS 0369-02 24 Ultrasonic and liquid penetrant examination performed - no unacceptable indications.

CS 0370-01 04 Ultrasonic examination did not reveal any unacceptable indications. Liquid penetrant examination recorded an unacceptable linear indication which was successfully re-examined after surface conditioning.

CS 0370-03 06 Ultrasonic and liquid penetrant examination performed - no unacceptable indications.

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

RH 0155-03 08 Ultrasonic and liquid penetrant examination performed - no unacceptable indications.

RH 0157-01 06 Ultrasonic examination recorded three indications. One of the indications was evaluated as counterbore geometry. The other two indications were evaluated as beam redirection due to dendritic weld structure. Liquid penetrant examination revealed numerous linear indications which were corrected by surface conditioning and successfully re-examined.

RH 0157-01 10 Ultrasonic examination recorded two indications which were evaluated as beam redirection due to dendritic weld structure. Liquid penetrant examination was performed with no unacceptable indications.

RH 0157-10 03 Ultrasonic examination recorded two indications which were evaluated as beam redirection due to dendritic weld structure. Liquid penetrant examination was performed with no unacceptable indications.

RH 0157-10 LD5 Ultrasonic and liquid penetrant examination performed - no unacceptable indications.

RH 0158-03 12 Ultrasonic and liquid penetrant examination performed - 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

RH 0162-01 01

Ultrasonic examination was conducted with no unacceptable indications. Liquid penetrant examination recorded two unacceptable linear indications which were surface conditioned by flapping and successfully re-examined.

RH 0162-04 02

Ultrasonic examination was conducted with no unacceptable indications. Liquid penetrant examination revealed numerous indications which were corrected by surface conditioning and successfully re-examined.

RH 0163-01 02

Ultrasonic examination was conducted with no unacceptable indications. Liquid penetrant examination revealed numerous indications which were corrected by surface conditioning and successfully re-examined.

RH 0163-05 04

Ultrasonic and liquid penetrant examination performed - no unacceptable indications.

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

SI 0251-02 04

Ultrasonic and liquid penetrant examination performed - no unacceptable indications.

SI 0251-02 08

Ultrasonic and liquid penetrant examination performed - no unacceptable indications.

SI 0251-03 01

Ultrasonic and liquid penetrant examination performed - no unacceptable indications.

SI 0256-04 01

Liquid penetrant examination performed - no unacceptable indications.

SI 0261-02 01

Liquid penetrant examination performed - 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 inspected as follows:

FW 4606-03 08

Ultrasonic and magnetic particle examination performed - no unacceptable indications.

FW 4606-03 09

Ultrasonic examination recorded three indications. One was evaluated as OD geometry and the other two evaluated as root geometry. Magnetic particle examination performed - 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 09	Ultrasonic examination recorded two indications which were evaluated as root geometry. Magnetic particle examination performed - no unacceptable indications.
FW 4608-03 08	Ultrasonic examination recorded two indications which were evaluated as root geometry. Magnetic particle examination performed - no unacceptable indications.
FW 4608-03 09	Ultrasonic and magnetic particle examination performed - no unacceptable indications.
FW 4609-03 09	Ultrasonic and magnetic particle examination performed - no unacceptable indications.
FW 4609-03 11	Ultrasonic examination recorded an indication which was evaluated as root geometry. Magnetic particle examination performed - no unacceptable indications.

The following Main Steam System piping welds were inspected as follows:

MS 4000-02 02B	Magnetic particle examination performed - no unacceptable indications.
MS 4000-02 03B	Magnetic particle examination performed - no unacceptable indications.
MS 4000-02 05	Ultrasonic examination recorded an indication which was evaluated as CD geometry. Magnetic particle examination performed - no unacceptable indications.
MS 4000-02 06B	Magnetic particle examination performed - no unacceptable indications.
MS 4000-02 07	Ultrasonic examination recorded two indications which was evaluated as root geometry. Magnetic particle examination performed - no unacceptable indications.
MS 4000-02 08	Ultrasonic and magnetic particle examination performed - no unacceptable indications.
MS 4000-41 03	Ultrasonic and magnetic particle examination performed - no unacceptable indications.
MS 4000-41 03	Ultrasonic examination recorded an indication which was evaluated as root geometry. Magnetic particle examination performed - no unacceptable indications.

2.0 SUMMARY REPORT (continued)

Code Category C-F-2 (continued)

Pressure Retaining Welds i. Carbon Steel or Low Alloy Steel Piping

MS 4000-41 10B	Magnetic particle examination performed - no unacceptable indications.
MS 4000-41 11B	Magnetic particle examination performed - no unacceptable indications.
MS 4001-02 04	Ultrasonic and magnetic particle examination performed - no unacceptable indications.
MS 4001-02 10	Ultrasonic and magnetic particle examination performed - no unacceptable indications.
MS 4002-02 04	Ultrasonic and magnetic particle examination performed - no unacceptable indications.
MS 4002-02 12	Ultrasonic and magnetic particle examination performed - no unacceptable indications.
MS 4003-02 02B	Magnetic particle examination performed - no unacceptable indications.
MS 4003-02 03B	Magnetic particle examination performed - no unacceptable indications.
MS 4003-02 05	Ultrasonic examination was conducted with no unacceptable indications. Magnetic particle examination revealed numerous linear indications which were surface conditioning and successfully re-examined.
MS 4003-02 06	Ultrasonic and magnetic particle examination performed - no unacceptable indications.
MS 4003-02 07	Ultrasonic and magnetic particle examination performed - no unacceptable indications.
MS 4003-02 08	Ultrasonic examination recorded an indication which was evaluated as root geometry. Magnetic particle examination performed - no unacceptable indications.
MS 4003-02 09	Ultrasonic and magnetic particle examination performed - no unacceptable indications.
MS 4003-02 10	Ultrasonic and magnetic particle examination performed - no unacceptable indications.
MS 4003-02 11	Ultrasonic examination recorded indications at various scan angles, all of which were evaluated as root geometry. Magnetic particle examination performed - no unacceptable indications.

2.0 SUMMARY REPORT (continued)

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 Functional Test
EX1810.203	C-H,D-A	RWST & SAT ISI Functional Test
EX1810.204	C-H	VCT & Piping ISI Functional Test
EX1810.205	C-H	N2 Penetration ISI Functional Test
EX1810.210	C-H	SI System Train A ISI Functional Test
EX1810.211	C-H	SI System Train B ISI Functional Test
EX1810.215	C-H	Vent Gas System Penetration Functional Test
EX1810.216	C-H	Low Head Injection Functional Test
EX1810.301	D-A	SW System Train A Functional Test
EX1810.302	D-A	SW System Train A Functional Test
EX1810.303	D-A,D-B,D-C	Primary Component Cooling Loop B Functional Test
EX1810.304	D-A,D-B,D-C	Primary Component Cooling Loop B Functional Test
EX1810.305	D-A	PCCW Thermal Barrier System Functional Test
EX1810.308	D-A,D-B	DM System - CST Fill Line Functional Test
EX1810.317	D-B	MS Supply Line to Emergency Feed Pump Functional Test
EX1811.302	D-C	SF System Pump Discharge Piping ISI 10 Year Hydro Test
EX1811.303	D-C	SF System Pump Supply Piping ISI 10 Year Hydro Test
EX1811.315	D-A,D-B	CC System Thermal Barrier Pump Supply Piping Hydro Test
EX1811.316	D-B	CC System Thermal Barrier Head Pipe 10 Year Hydro Test
EX1811.317	D-A,D-B	CC System Thermal Barrier Pump S/D Piping ISI Hydro Test

The above tests, with the exception of service water, successfully underwent a VT-2 visual examination. Portions of both trains of 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 measurements were forwarded to Engineering for evaluation. Engineering evaluation concluded that the affected piping was acceptable for continued service with measurements to be taken next refueling.

ISI Supports (NF)

The following supports received a VT-3/VT-4 visual examination. Status and ASME Class is listed. In the Comments section, where a W/R or Problem Sheet No. is listed, these refer to supports that were identified as having failed visually (i.e., loose nuts, light corrosion). Evaluations were performed and the supports were determined to be operable, and did not fall within IWF-3410A.

<u>System</u>	<u>Support No.</u>	<u>Class</u>	<u>Last Exam</u>	<u>Status</u>	<u>Comments</u>
CBS	1-1208-SG-003	2	08/23/91	Acceptable	
	1-1208-SG-005	2	08/22/91	Acceptable	
	1-1208-SV-006	2	08/22/91	Acceptable	
	1-1212-RG-003	2	09/02/91	Acceptable	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

<u>System</u>	<u>Support No.</u>	<u>Class</u>	<u>Last Exam</u>	<u>Status</u>	<u>Comments</u>
CBS	1-1212-RG-005	2	08/20/91	Acceptable	
	1-1212-SG-004	2	08/31/91	Acceptable	
	1-1213-RG-001	2	06/20/91	Acceptable	
	1-1213-RG-003	2	08/20/91	Acceptable	
	1-1213-RG-005	2	08/20/91	Acceptable	
	1-1213-SH-004	2	09/07/91	Acceptable	
	1-1213-SV-002	2	08/20/91	Acceptable	W/R 91W004354
	1-1216-SG-058	2	08/31/91	Acceptable	Problem sheet #25
	1-1216-SG-060	2	08/08/91	Acceptable	
CC	1-0784-RM-006	3	08/10/91	Acceptable	Functional Test
	1-0810-RM-004	3	08/22/91	Acceptable	W/R 91W004177
	1-0835-RM-005	3	08/21/91	Acceptable	
CS	1-0343-RM-003	1	08/29/91	Acceptable	
	1-0343-RM-004	1	08/29/91	Acceptable	
	1-0343-RM-007	1	08/05/91	Acceptable	Functional Test
	1-0355-RM-031	2	08/08/91	Acceptable	
	1-0355-RM-033	2	08/08/91	Acceptable	
	1-0355-RM-034	2	08/08/91	Acceptable	
	1-0365-RG-017	1	08/13/91	Acceptable	
	1-0365-RM-003	1	08/13/91	Acceptable	
	1-0365-SG-016	1	08/13/91	Acceptable	
	1-0366-RM-018	1	08/13/91	Acceptable	
	1-0366-SG-017	1	08/13/91	Acceptable	
	1-0368-RM-004	2	08/13/91	Acceptable	W/R 91W004240
	1-0368-RM-011	1	08/16/91	Acceptable	
	1-0369-RG-022	2	08/20/91	Acceptable	
	1-0369-RG-023	2	08/20/91	Acceptable	
	1-0369-RM-021	2	08/24/91	Acceptable	
	1-0369-SH-018	2	08/20/91	Acceptable	
	1-0370-RG-004	2	08/17/91	Acceptable	
	1-0370-RG-005	2	08/17/91	Acceptable	Problem sheet #19
	1-0370-SG-001	2	08/17/91	Acceptable	
	1-0370-SG-002	2	08/17/91	Acceptable	Problem sheet #20
	1-0370-SV-003	2	08/17/91	Acceptable	
	1-0375-RM-011	2	08/21/91	Acceptable	
DG	1-4403-RM-002	3	08/17/91	Acceptable	W/R 91W004354
FW	1-4606-RM-005B	2	07/29/91	Acceptable	Functional Test
	1-4606-RM-007A	2	08/13/91	Acceptable	
	1-4606-RM-008A	2	08/14/91	Acceptable	
	1-4606-SC-009A	2	08/14/91	Acceptable	
	1-4606-SG-009	2	08/29/91	Acceptable	Problem sheet #24
	1-4607-A-034	2	08/30/91	Acceptable	
	1-4607-RG-003A	2	08/09/91	Acceptable	Problem Sheet #11
	1-4607-RM-005B	2	08/09/91	Acceptable	
	1-4607-RM-007	2	08/14/91	Acceptable	
	1-4607-RM-008A	2	08/15/91	Acceptable	
	1-4607-SC-009A	2	08/12/91	Acceptable	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

<u>System</u>	<u>Support No.</u>	<u>Class</u>	<u>Last Exam</u>	<u>Status</u>	<u>Comments</u>
FW	1-4607-SG-001A	2	08/09/91	Acceptable	Problem sheet #12
	1-4608-RM-005B	2	08/09/91	Acceptable	
	1-4608-RM-007	2	08/16/91	Acceptable	W/R 91W004355
	1-4608-RM-008A	2	08/15/91	Acceptable	
	1-4608-SC-009A	2	08/12/91	Acceptable	
	1-4608-SG-001A	2	08/09/91	Acceptable	Problem sheet #8
	1-4608-SV-005A	2	08/09/91	Acceptable	
	1-4608-SV-013	2	08/23/91	Acceptable	W/R 91W004395
					Problem sheet #22
	1-4609-RG-013	2	08/24/91	Acceptable	
	1-4609-RM-005B	2	08/10/91	Acceptable	
	1-4609-RM-007A	2	08/16/91	Acceptable	
	1-4609-RM-008A	2	08/16/91	Acceptable	W/R 91W004355
	1-4609-SC-009A	2	08/20/91	Acceptable	
	1-4609-SG-011	2	08/29/91	Acceptable	
	1-4609-SV-005A	2	08/16/91	Acceptable	
	1-4609-SV-012	2	08/24/91	Acceptable	W/R 91W004564
MS	1-4000-RG-010A	2	08/26/91	Acceptable	
	1-4000-RM-005	2	08/14/91	Acceptable	
	1-4000-RM-006	2	08/10/91	Acceptable	
	1-4000-RM-009	2	08/10/91	Acceptable	W/R 91W004012
	1-4000-RM-010	2	08/12/91	Acceptable	
	1-4000-SC-004	2	08/14/91	Acceptable	
	1-4000-SG-007	2	08/10/91	Acceptable	Problem sheet #13
	1-4000-SG-008	2	08/10/91	Acceptable	
	1-4000-SG-014	2	08/24/91	Acceptable	
	1-4000-SV-009A	2	08/24/91	Acceptable	W/R 91W004564
	1-4000-SV-011	2	08/24/91	Acceptable	
	1-4000-TG-013	2	08/24/91	Acceptable	
	1-4001-RF-010A	2	08/24/91	Acceptable	
	1-4001-RM-006	2	08/09/91	Acceptable	
	1-4001-RM-009	2	08/14/91	Acceptable	W/R 91W004240
	1-4001-RM-010	2	07/29/90	Acceptable	
	1-4001-RM-059	3	08/09/91	Acceptable	Functional Test
	1-4001-SC-004	2	08/15/91	Acceptable	
	1-4001-SG-007	2	08/10/91	Acceptable	
	1-4001-SG-008	2	08/09/91	Acceptable	
	1-4001-SG-015A	2	08/29/91	Acceptable	Problem sheet #23
	1-4001-SG-015B	2	08/29/91	Acceptable	Problem sheet #23
	1-4001-SV-009A	2	08/27/91	Acceptable	
	1-4001-SV-011	2	08/23/91	Acceptable	
	1-4002-RM-005	2	08/15/91	Acceptable	W/R 91W004240
	1-4002-RM-006	2	08/10/91	Acceptable	W/R 91W004012
	1-4002-RM-010	2	08/10/91	Acceptable	W/R 91W004012
	1-4002-RM-024	2	08/23/91	Acceptable	
	1-4002-SC-004	2	08/14/91	Acceptable	W/R 91W004240
	1-4002-SG-014	2	08/23/91	Acceptable	
	1-4002-SV-009A	2	08/23/91	Acceptable	W/R 91W004395
	1-4002-SV-011	2	08/23/91	Acceptable	W/R 91W004395
					Problem sheet #21

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

<u>System</u>	<u>Support No.</u>	<u>Class</u>	<u>Last Exam</u>	<u>Status</u>	<u>Comments</u>
MS	1-4002-TG-013	2	08/24/91	Acceptable	
	1-4003-RG-003	2	08/13/91	Acceptable	Problem sheet #16
	1-4003-RG-010A	2	08/24/91	Acceptable	
	1-4003-RM-005	2	08/16/91	Acceptable	W/R 91W004355
	1-4003-RM-006	2	08/10/91	Acceptable	W/R 91W004396
	1-4003-RM-009	2	08/10/91	Acceptable	W/R 91W004012
	1-4003-RM-010	2	08/01/91	Acceptable	Functional Test
	1-4003-RM-024	2	08/26/91	Acceptable	
	1-4003-SC-004	2	09/03/91	Acceptable	
	1-4003-SG-007	2	08/12/91	Acceptable	
	1-4003-SV-011	2	09/04/91	Acceptable	
	1-MS-RM-SGA-B	1	08/31/91	Acceptable	
	1-MS-RM-SGA-C	1	08/31/91	Acceptable	
	1-MS-RM-SGA-D	1	08/31/91	Acceptable	
	1-MS-RM-SGA-E	1	08/31/91	Acceptable	
	1-MS-RM-SGB-A	1	08/31/91	Acceptable	
	1-MS-RM-SGB-B	1	08/31/91	Acceptable	
	1-MS-RM-SGB-C	1	08/31/91	Acceptable	
	1-MS-RM-SGB-D	1	08/31/91	Acceptable	
	1-MS-RM-SGB-E	1	08/31/91	Acceptable	
	1-MS-RM-SGC-A	1	08/31/91	Acceptable	
	1-MS-RM-SGC-B	1	09/05/91	Acceptable	
	1-MS-RM-SGC-C	1	09/05/91	Acceptable	
	1-MS-RM-SGC-D	1	09/05/91	Acceptable	
	1-MS-RM-SGC-E	1	08/31/91	Acceptable	
	1-MS-RM-SGD-A	1	08/31/91	Acceptable	
	1-MS-RM-SGD-B	1	08/31/91	Acceptable	
	1-MS-RM-SGD-C	1	08/31/91	Acceptable	
	1-MS-RM-SGD-D	1	08/31/91	Acceptable	
	1-MS-RM-SGD-E	1	06/26/86	Acceptable	Functional Test
RC	1-0013-RM-001	1	08/16/91	Acceptable	
	1-0013-RM-006	1	08/06/91	Acceptable	
	1-0013-RM-021	1	08/07/91	Acceptable	Functional Test
	1-0015-RG-011	1	08/13/91	Acceptable	
	1-0015-RM-003	1	08/13/91	Acceptable	
	1-0015-RM-005	1	08/13/91	Acceptable	
	1-0015-RM-009	1	08/13/91	Acceptable	W/R 91W004240
	1-0015-RM-015	1	08/13/91	Acceptable	
	1-0015-SG-012	1	08/13/91	Acceptable	
	1-0018-RM-002	1	08/15/91	Acceptable	
	1-0018-RM-004	1	08/16/91	Acceptable	
	1-0018-RM-005	1	08/15/91	Acceptable	
	1-0018-SG-003	1	08/15/91	Acceptable	
	1-0018-SG-006	1	08/15/91	Acceptable	
	1-0021-RG-018	1	08/13/91	Acceptable	W/R 91W004355
	1-0021-RM-004	1	08/14/91	Acceptable	Problem sheet #14
	1-0021-RM-007	1	08/14/91	Acceptable	
	1-0021-RM-011	1	08/05/91	Acceptable	Functional Test
	1-0021-RM-012	1	08/15/91	Acceptable	
	1-0021-RM-024	1	08/13/91	Acceptable	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

<u>System</u>	<u>Support No.</u>	<u>Class</u>	<u>Last Exam</u>	<u>Status</u>	<u>Comments</u>
RC	1-0021-RM-026	1	08/14/91	Acceptable	
	1-0021-SG-017	1	08/13/91	Acceptable	W/R 91W004355
	1-0030-RM-003	1	08/16/91	Acceptable	
	1-0030-RM-005	1	08/15/91	Acceptable	
	1-0030-RM-009	1	08/15/91	Acceptable	
	1-0030-RM-015	1	08/15/91	Acceptable	
	1-0033-RM-002	1	08/15/91	Acceptable	
	1-0033-RM-004	1	08/15/91	Acceptable	
	1-0033-RM-005	1	08/15/91	Acceptable	
	1-0033-SG-007	1	08/15/91	Acceptable	Problem sheet #15
	1-0044-RG-008	1	08/06/91	Acceptable	
	1-0044-RM-003	1	08/15/91	Acceptable	
	1-0044-RM-005	1	08/15/91	Acceptable	
	1-0044-RM-009	1	08/15/91	Acceptable	
	1-0044-RM-019	1	08/15/91	Acceptable	
	1-0044-SG-006	1	08/16/91	Acceptable	
	1-0044-SG-007	1	08/15/91	Acceptable	
	1-0045-RM-002	1	08/15/91	Acceptable	
	1-0045-RM-004	1	08/15/91	Acceptable	
	1-0045-RM-005	1	08/15/91	Acceptable	
	1-0048-RM-001	1	08/15/91	Acceptable	
	1-0048-RM-025	1	08/14/91	Acceptable	
	1-0048-RM-027	1	08/15/91	Acceptable	
	1-0048-RM-028	1	08/14/91	Acceptable	
	1-0048-RM-030	1	07/29/90	Acceptable	Functional Test
	1-0049-RM-002	1	08/07/91	Acceptable	
	1-0049-RM-003	1	08/07/91	Acceptable	
	1-0058-RM-001	1	08/16/91	Acceptable	
	1-0058-RM-006	1	08/06/91	Acceptable	W/R 91W004396
	1-0058-RM-021	1	08/16/91	Acceptable	
	1-0059-RM-003	1	08/16/91	Acceptable	
	1-0059-RM-005	1	08/16/91	Acceptable	
	1-0059-RM-009	1	08/16/91	Acceptable	
	1-0059-RM-015	1	08/16/91	Acceptable	
	1-0059-RM-017	1	08/16/91	Acceptable	
	1-0059-SG-012	1	08/16/91	Acceptable	
	1-0059-SG-013	1	08/16/91	Acceptable	
	1-0062-RM-002	1	08/16/91	Acceptable	
	1-0062-RM-004	1	08/16/91	Acceptable	
	1-0062-RM-005	1	08/16/91	Acceptable	
	1-0075-RG-001	1	08/14/91	Acceptable	Problem sheet #17
	1-0097-A-007	1	08/15/91	Acceptable	
	1-0097-RM-004	1	03/15/91	Acceptable	
	1-0097-RM-022	1	08/15/91	Acceptable	
	1-0097-RM-023	1	08/15/91	Acceptable	
	1-0097-SG-009	1	08/15/91	Acceptable	
	1-0097-SV-001	1	08/15/91	Acceptable	
RH	1-0155-RM-005	1	08/12/91	Acceptable	
	1-0155-RM-017	2	08/07/91	Acceptable	
	1-0155-RM-025A	2	08/20/91	Acceptable	W/R 91W004354

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

<u>System</u>	<u>Support No.</u>	<u>Class</u>	<u>Last Exam</u>	<u>Status</u>	<u>Comments</u>
RH	1-0155-RM-031	1	07/29/90	Acceptable	Functional Test
	1-0155-SG-004	1	08/12/91	Acceptable	
	1-0155-SG-006	1	08/12/91	Acceptable	
	1-0155-SG-008	1	08/12/91	Acceptable	Functional Test
	1-0155-SG-013	2	08/12/91	Acceptable	
	1-0158-RM-005	2	08/19/91	Acceptable	
	1-0158-RM-031	1	08/07/91	Acceptable	Functional Test
	1-0158-RM-035	1	08/20/91	Acceptable	
	1-0160-RM-006	2	08/05/91	Acceptable	
	1-0160-RM-008	1	08/16/91	Acceptable	Functional Test
	1-0160-RM-024	1	08/16/91	Acceptable	
	1-0160-SG-003	1	08/06/91	Acceptable	
	1-0160-SG-005	1	08/06/91	Acceptable	W/R 91W004396
	1-0160-SG-007	1	08/16/91	Acceptable	W/R 91W004396
	1-0162-RM-005	1	08/14/91	Acceptable	
	1-0162-RM-008	1	08/14/91	Acceptable	
	1-0162-SG-004	1	08/14/91	Acceptable	
	1-0163-RM-008	1	08/17/91	Acceptable	W/R 91W004355
	1-0163-RM-012	1	08/16/91	Acceptable	W/R 91W004240
	1-0163-SG-002	2	08/16/91	Acceptable	
	1-0163-SG-003	1	08/20/91	Acceptable	
	1-0163-SG-005	1	08/17/91	Acceptable	
	1-0180-RM-003	2	08/07/91	Acceptable	
	1-0180-RM-006	1	08/07/91	Acceptable	
SI	1-0201-RM-007	1	08/12/91	Acceptable	W/R 91W004012
	1-0201-RM-009	1	08/13/91	Acceptable	
	1-0201-RM-010	1	08/13/91	Acceptable	
	1-0201-RM-014	1	08/13/91	Acceptable	Functional Test
	1-0201-RM-015	1	07/29/90	Acceptable	
	1-0201-SG-003	1	08/12/91	Acceptable	
	1-0201-SG-004	1	08/12/91	Acceptable	
	1-0201-SV-013	1	08/13/91	Acceptable	
	1-0202-RM-007	1	08/14/91	Acceptable	
	1-0202-RM-009	1	08/13/91	Acceptable	
	1-0202-RM-010	1	08/14/91	Acceptable	
	1-0274-RM-016	1	08/08/91	Acceptable	
	1-0275-RM-017	1	08/10/91	Acceptable	
	1-0275-SG-001	1	08/08/91	Acceptable	
	1-0275-SG-002	1	08/08/91	Acceptable	
	1-0275-SG-003	1	08/08/91	Acceptable	
	1-0275-SG-004	1	08/08/91	Acceptable	
	1-0275-SG-005	1	08/08/91	Acceptable	
	1-0275-SG-006	1	08/08/91	Acceptable	
	1-0275-SG-007	1	08/08/91	Acceptable	

2.0 SUMMARY REPORT (continued)

ISI Supports (NF) (continued)

The following four hydraulic snubbers were found with unacceptable fluid conditions. These snubbers were determined to be inoperable and evaluations were performed.

<u>System</u>	<u>Support No.</u>	<u>Class</u>	<u>Last Exam</u>	<u>Status</u>	<u>Comments</u>
MS	1-4001-RM-005	2	08/14/91	Rejectable	Cause for rejection: No fluid, see W/R 91W004239
MS	1-4002-RM-009	2	08/10/91	Rejectable	Cause for rejection: No fluid, see W/R 91W004112
RC	1-0021-RM-002	1	08/13/91	Rejectable	Cause for rejection: No fluid, see W/R 91W004237
RH	1-0180-RM-011	1	08/13/91	Rejectable	Cause for rejection: No fluid, see W/R 91W004238

Steam generator snubber 1-MS-RM-SGA-A had functional test results outside allowable test tolerances of the procedure. It was discovered that this snubber also had initial test results outside the Vendor's tolerances. They reviewed and accepted the results. NHY (Seabrook) Engineering reviewed initial and refueling outage results, accepted them, and issued a design document to correct the test records.

3.0 CONCLUSIONS

Examination results for this first refueling outage of the first inspection Period were very good. There were no rejectable UT indications requiring repair. Rejected surface examinations only required cleaning and surface conditioning to be acceptable. These did not increase weld or component sampling.

Below is a table depicting percentages of completed weld and bolted component examinations relative to the overall Interval and to the first Period.

Percentage of Ten-Year Interval Examinations Completed

ASME Class 1	9%
ASME Class 2	17%
Total Class 1 & 2	11%

Percentage of Period #1 Examinations Completed

ASME Class 1	45%
ASME Class 2	95%
Total Class 1 & 2	60%

Visual (VT-3 and/or VT-4) examinations were performed on 248 supports for ISI. Four hydraulic snubbers were found with unacceptable fluid conditions. These snubbers were determined as inoperable and evaluations were performed. Additional component supports were identified as having failed visually (i.e., loose nuts, light corrosion). Evaluations were performed and the supports were determined to be operable, and did not fall within IWF-3410A.

Plant Technical Specifications required 10% of the mechanical and hydraulic snubber population to be functionally tested. Fourteen (14) represented the ISI population, and they had acceptable functional tests. Three failures occurred during testing of the remainder, and they occurred on PSA 1/2 sizes. Eighteen (18) additional PSA 1/2 snubbers were tested with no additional failures. One steam generator snubber had test results outside test tolerances. Engineering reviewed the test data and manufacturer data, determined the results acceptable, and issued a design document correcting the test results.

Pressure Testing conducted a total of five (5) hydrostatic tests and fifteen (15) functional tests. The Service Water tests failed VT-2 visual examination due to excessive surface corrosion. Engineering evaluation determined the piping to be acceptable for continued service with measurements verified during next refueling. All other tests were acceptable.