

OWNER'S DATA REPORT

FOR

INSERVICE INSPECTION

EDWIN I. HATCH NUCLEAR PLANT

UNIT 1

SEPTEMBER 1991 - NOVEMBER 1991

PREPARED BY:

Christen L. Howard

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NOTE: Portions of this report are compiled from Southern Nuclear Operating Company issued report; "Nondestructive Examination Of Selected Class 1, 2, and 3 Components", for the Fall 1991 Refueling Outage at E.I. Hatch Nuclear Plant, Unit 1. This report is available for review in the Records Management Department at the plant site.

## LIST OF ABBREVIATIONS

ANI/ANII	Authorized Nuclear Inspector/Authorized Nuclear Inservice Inspector
ASME	American Society of Mechanical Engineers
ASNT	American Society for Nondestructive Testing
BC	Branch Connection
BWR	Boiling Water Reactor
CH	Closure Head
CONT	Containment
CPI	Containment Purge and Inerting System
CRD	Control Rod Drive System
CS	Core Spray System
CU	Clean-up
C&L	Cramer and Lindell Engineers
DCR	Design Change Request
ECCS	Emergency Core Cooling Systems
ET	Eddy Current Examination
EPRI	Electric Power Research Institute
FB	Flange Bolting
FPC	Fuel Pool Cooling System
FW	Feedwater System
GE	General Electric
GPC	Georgia Power Company
HL	Hanger Lug
HPCI	High Pressure Coolant Injection System
INF	Indication Notification Form
IGSCC	Intergranular Stress Corrosion Cracking
ISI	Inservice Inspection
LD	Longitudinal Seam Weld Extending Downstream
LD-I	Longitudinal Weld Downstream on Inside of Elbow
LD-O	Longitudinal Weld Downstream on Outside of Elbow
Lo	Zero Reference Location
LMT	Lambert, MacGill, Thomas, Inc.
LPCI	Low Pressure Coolant Injection
LU	Longitudinal Seam Weld Extending Upstream
LU-I	Longitudinal Weld Upstream on Inside of Elbow
LU-O	Longitudinal Weld Upstream on Outside of Elbow
MSIV	Main Steam Isolation Valve
MS	Main Steam System
MSA	Main Steam Auxiliary System
MT	Magnetic Particle Examination
MWO	Maintenance Work Order
NDE	Nondestructive Examination
NI	No Indication
NRC	Nuclear Regulatory Commission
NRI	No Recordable Indication
OL	Overlay



Abbreviations - cont.

PL	Pipe Lug
PLT	Plant
PR	Pipe Restraint
PROD	Product
PS	Pipe Support
PSW	Plant Service Water System
PT	Liquid Penetrant Examination
QC	Georgia Power Company Quality Control
RC	Reactor Recirculation System
XCIC	Reactor Core Isolation Cooling System
RHR	Residual Heat Removal System
RHRSW	Residual Heat Removal Service Water System
RI	Recordable Indication
RINTSA	Recirculation Inlet Nozzle Thermal Sleeve Attachment Welds
RL	Refracted Longitudinal
RL	Restraint Lug
RPV	Reactor Pressure Vessel
RX	Reactor
RWCU	Reactor Water Cleanup System
SBLC	Standby Liquid Control System
SIAI	Structural Integrity Associates, Inc.
SER	Service
SRV	Safety Relief Valve
SNC	Southern Nuclear Operating Company
TDP	Torus Drainage and Purification System
TSB	Turbine Steam Bypass System
UT	Ultrasonic Examination
VLV	Valve
VT	Visual Examination

This list is comprised of standard abbreviations used in Inservice Inspection Documentation. All of these abbreviations may not appear in this report.

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS  
As Required By the Provisions Of The ASME Codes Rules

1. Owner: Georgia Power Company, 333 Piedmont Ave., NE, P.O. Box 4545, Atlanta, Georgia 30302
2. Plant: Edwin I. Hatch Nuclear Plant, Route 1, Box 278, Baxley, GA 31513
3. Plant Unit 1 4. Owner Certificate of Authorization (if req.) N/A
5. Commercial Service Date 12/31/75 6. National Board No. for Unit N/A
7. Components Inspected:

<u>Component or Appurtenance or System</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province Number</u>	<u>National Board No.</u>
<u>Rx. Pressure Vessel</u>	<u>Combustion Eng.</u>	<u>67105</u>	<u>N/A</u>	<u>20769</u>
<u>Rx. Pressure Vessel</u>	<u>Combustion Eng.</u>	<u>67205</u>	<u>N/A</u>	<u>20769</u>
<u>1B21 Main Steam</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1B21 Feedwater</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1B31 Rx. Recirc</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1C11 CRD</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1C41 SBLC</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1E11 RHR</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1E21 Core Spray</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1E41 HPCI</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1E51 RCIC</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1G31 RWCU</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1G41 FPC &amp; CU</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1N11 M S Auxiliary</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1P41 Plt Serv Water</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>

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

\* - Spool piece of fitting numbers too numerous to list for each specific system. Material certifications for all piping, fittings, etc., are available for review in the Records Management Department at the plant site.

\*\* Exception taken to note 2.

FORM NIS-1 (Eack)

8. Examination Dates 06/05/90 to 11/29/91.
9. Inspection Interval from 01/86 to 01/96.
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.  
\*\*\*
11. Abstract of Conditions Noted. \*\*\*
12. Abstract of Corrective Measures Recommended and Taken. \*\*\*

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

Date Feb 12 19 92 Signed Georgia Power Company By [Signature]

Owner

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

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of GA and employed by \*\*\*\* of Hartford, CT have inspected the components described in this Owners' Data Report during the period 09/91 to 11/91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

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

Date 2-13 19 92

[Signature]  
Inspector's Signature

Commissions Georgia-GA00115  
National Board, State, Province, & No.

\*\*\* The following NIS-1 Form supplementary information and report includes the responses to NIS questions #10, #11, and #12.

\*\*\*\* Hartford Steam Boiler Inspection and Insurance Company.

NIS-1 Form Supplementary Information

Owner's Data Report  
for  
Inservice Inspection

Date: February 4, 1992

Owner Name & Address: Georgia Power Company  
333 Piedmont Avenue, N.E.  
P.O. Box 4545  
Atlanta, Georgia 30302

Name & Address of Nuclear Generating Plant:

Edwin I. Hatch Nuclear Plant  
Route 1, Box 278  
Baxley, Georgia 31513

Name Assigned to Nuclear Plant Station:

Edwin I. Hatch Nuclear Plant  
Unit 1

Commercial Service Date: December 31, 1975

Gross Generating Capability:

2436 MWt, 813 MWe

State, Province, or Municipality Assigned Number: N/A

National Board Number Assigned by Manufacturer: N/A

## System Pressure/Leakage Tests

<u>System</u>	<u>Class</u>	<u>Test Required</u>
Reactor Pressure Vessel and Associated Class 1 Piping and Components	1	1 Leakage
SBLC (1C41)	1	1 Hydrostatic
RHR (1E11)	2	2 Hydrostatic
RHRSW (1E11)	3	1 Inservice
Core Spray (1E21)	2	1 Functional
HPCI (1E41)	2	1 Functional
RCIC (1E51)	2	1 Functional
FPC (1G41)	3	1 Inservice
PSW (1P41)	3	2 Hydrostatic
PSW (1P41)	3	1 Inservice

## Pipe Support & Hanger Examination

### Class 1

Main Steam System  
Residual Heat Removal System  
Feedwater System  
Reactor Recirculation System  
Reactor Water Cleanup System

### Class 2

High Pressure Coolant Injection System  
Residual Heat Removal System  
Reactor Core Isolation Cooling System  
Main Steam Auxiliary System  
Control Rod Drive System

### Class 3

Plant Service Water System

Name & Address of Manufacturer of Components:

1. Reactor Pressure Vessel and Closure Head:  
Combustion Engineering, Inc.  
Chattanooga, TN
2. Piping (Classes 1, 2, and 3)
  - a. Pullman Power Products  
Division of Pullman-Kellogg  
Williamsport, PA
  - b. General Electric Company  
San Jose, CA

Note: Piping purchased by General Electric and Pullman and installed by Pullman. Material certifications and manufacturer information are available for review in the Records Management Department at the Hatch Plant Site.

3. Piping Supports and Hangers (Classes 1, 2, and 3)
  - a. Bergen-Paterson Pipe Support Corporation  
Laconia, NH
  - b. ITT Grinnell Corporation  
Providence, Rhode Island
  - c. Pacific Scientific  
Anaheim, CA
4. Valves, Pumps, and Heat Exchangers
  - a. Crane  
New York, NY
  - b. Wm. Powell Company  
Cincinnati, OH
  - c. General Electric  
San Jose, CA
  - d. Target Rock Corporation  
East Farmingdale, NY

Date of Inservice Inspection:

September 1991 - November 1991

Completion Date of Inservice Inspection:

November 29, 1991

Name of Inspector: Donald R. Laakso (ANI/ANII)

Name & Mailing Address of Inspector's Employer:

The Hartford Steam Boiler Inspection and Insurance Company  
200 Ashford Center - North  
Suite 300  
Atlanta, Georgia 30338



## ABSTRACT

An Inservice Inspection of selected Class 1, 2 and 3 components at Georgia Power Company's Edwin I. Hatch Nuclear Plant Unit 1 was performed during the Fall 1991 Maintenance/Refueling Outage. The components were examined in accordance with the applicable ISI Outage Plan, including any changes made during the outage as approved by GPC.

Edwin I. Hatch Unit 1 is currently in the second period of the second 10-Year Inspection Interval. The required examinations are presently on schedule as specified in the Second Ten-Year Inspection Plan.

The nondestructive examinations were performed using VT, PT, MT and UT examination techniques. SNC personnel and their contractors; LMT, GE, Seimens, and Ebasco performed NDE of the selected welds and components. In addition, GE assisted SNC personnel with VT examination of selected RPV internal components. SNC, GE, or GPC NDE procedures were utilized for all ASME Section XI Examinations. LMT, Ebasco, and Seimens personnel were qualified to the applicable SNC procedures. EPRI qualified inspectors were utilized for all examinations involving IGSCC susceptible materials. SNC and GE procedures were used for mechanized ultrasonic examination and exams were performed by SNC, Seimens, Ebasco, and GE inspectors.

SNC and C&L personnel performed eddy current examinations of non ASME Section XI components per a request from GPC. C&L procedures were utilized for the performance of the eddy current examinations.

In addition to NDE testing of Class 1 and 2 welds and components, pressure testing, visual examination of Class 1 component internal surfaces and visual examination of pipe supports and hangers were also performed. Third party review (e.g. an ANII) was utilized for all examinations of ASME Section XI components.

Selected components were examined in accordance with GPC commitments to the following documents:

- Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, "Rules for Inservice Inspection of Nuclear Power Plant Components," 1980 Edition with Addenda through Winter 1981.
- United States Nuclear Regulatory Commission, Generic Letter 88-01, "NRC Position on IGSCC in BWR Austenitic Stainless Steel Piping" which invokes much of NUREG 0313, Revision 2, "Technical Report on Material Selection and Processing Guidelines for BWR Coolant Pressure Boundary Piping".
- United States Nuclear Regulatory Commission, Generic Letter 81-11, which modifies and invokes NUREG 0619, "BWR Feedwater Nozzle and Control Rod Drive Return Line Nozzle Cracking".
- United States Nuclear Regulatory Commission, I&E Bulletin 80-13 Visual Examination of Core Spray Spargers.
- SNC "Inservice Inspection Outage Plan, Edwin I. Hatch Nuclear Plant, Unit 1 1991 Fall Refueling Outage, Revision 1."
- SNC "Second Ten-Year Examination Plan, Edwin I. Hatch Nuclear Plant Unit 1."
- United States Nuclear Regulatory Commission NUREG 0803, "Generic Safety Evaluation Report Regarding Integrity of BWR SCRAM System Piping."



Representative samples of the following systems, comprised of selected Class 1, 2, and 3 components, were examined using various NDE techniques, in accordance with the above documents:

Class 1

Reactor Pressure Vessel (1B11)  
Main Steam System (1B21)  
Feedwater System (1B21)  
Reactor Recirculation System (1B31)  
Control Rod Drive System (1C11)  
Standby Liquid Control System (1C41)  
Residual Heat Removal System (1E11)  
Core Spray System (1E21)  
High Pressure Coolant Injection System (1E41)  
Reactor Core Isolation Cooling System (1E51)  
Reactor Water Cleanup System (1G31)  
Valve Internals  
Valve Bolting

Class 2

Standby Liquid Control System (1C41)  
Residual Heat Removal System (1E11)  
Core Spray System (1E21)  
High Pressure Coolant Injection System (1E41)  
Reactor Water Cleanup System (1G31)  
Reactor Core Isolation Cooling System (1E51)  
Main Steam Auxiliary System (1N11)

Class 3

RHR Service Water System (1E11)  
Fuel Pool Cooling System (1G41)  
Plant Service Water System (1P41)

Other - Augmented (Non ASME Section XI)

Eddy-current examinations were performed on the following components:  
Unit 1 Feedwater Heaters 5A, 5B, 7A, 7B, 8A, 8B, 10A, 10B, and Emergency Diesel Generator 1A and 1C Jacket Water Coolers, Lube Oil Coolers, Air Coolers and the Motor Generator "A" Air Cooler.

UT thickness measurements were performed on selected components in the Extraction Steam and Condensate Feedwater Piping Systems. A portion of these components were selected due to their similarity in design and operating conditions to components involved with the "Surry pipe break incident".

Eight (8) Non-Safety RWC System welds were examined using ultrasonic examinations techniques (UT) due to commitments made by GPC. These augmented exams are not required by the ASME Section XI Code but were performed due to commitments to GL 88-01.

## CLASS 1 EXAMINATIONS

### NUREG 0313

GPC is committed to the performance of surface and volumetric examinations on IGSCC susceptible welds in accordance with NUREG 0313. This commitment is formalized in GPC response to NRC Generic Letter 88-01. The below listed summary gives the total number of exams performed by outage end. A detailed report on flaw evaluation and overlay design was submitted to the NRC by letter HL-2000 dated January 21, 1992.

#### Category A

Thirty-nine (39) Category A welds were examined. Twenty-five (25) of these welds were examined using UT and PT techniques and the remaining fourteen (14) were examined using UT techniques only. No rejectable indications were found.

#### Category C

The original examination scope included fourteen (14) Category C welds. A scope expansion was required due to one (1) weld being found unacceptable for continued operation and was overlay repaired, resulting in a total of twenty-eight (28) Category C welds being examined. Fourteen (14) of these welds were examined using UT and PT techniques and the remaining fourteen (14) welds were examined using UT techniques only.

The Category C weld which was overlay repaired was 1B31-1RC-28B-2.

Although weld 1E11-1RHR-20B-D-5 did not contain any identified flaws, a weld overlay was applied to improve the inspectability of the location.

The classification of these welds is now Category E per NUREG-0313 and will be examined as such in future outages.

#### Category D

Twelve (12) Category D welds were examined. No rejectable indications were detected. Five (5) of these welds were examined using UT and PT techniques and the remaining seven (7) were examined using UT techniques only.

Six (6) RINTSA welds were examined by UT and no rejectable indications were detected.

#### Category E

The original examination scope included twenty-five (25) of the total forty-six (46) Category E (overlayed) welds. UT examinations revealed new IGSCC indications and some original cracks with new growth which warranted examination scope expansion. By outage end, all forty-six (46) Category E welds had been examined by UT NDE techniques. All results for new indications or crack growth were evaluated by Structural Integrity Associates, Inc. and found to be acceptable for continued service.

Note that six (6) new overlays were added during this outage which results in a total of fifty-two (52) Category E overlays. Preservice examinations were performed on each of these six (6) new overlays. No rejectable indications were found. See sections on Category C and Category F examinations for the additional overlay weld numbers.

#### Category F

All Category F welds require examination each refueling outage. All four (4) of these welds were examined during the outage and a change in indications or apparent crack growth was detected in all four (4) of these welds which were unacceptable for continued service. All four (4) welds were overlay repaired and will be examined as Category E welds in future outages. Listed below are the Category F welds which were overlay repaired:

1B31-1RC-12BR-A-4  
1B31-1RC-12BR-E-4  
1B31-1RC-12AR-G-4  
1E11-1RHR-20B-D-4

A preservice baseline examination was performed on all welds which were overlay repaired during the outage.

#### Other Class 1 Examinations

Two-hundred-eighteen (218) ASME Section XI component examinations were performed utilizing UT, MT, PT and VT as applicable. These examinations included; RPV welds, piping welds, valve internals, and valve bolting materials.

Per I&E Bulletin 80-13, the core spray sparger and associated piping were VT examined. No reportable indications were detected.

Per ASME Section XI, selected RPV internals were examined. These examinations included portions of the vessel interior, interior attachments beyond the belt line region and the RPV internal components. See the In-vessel Inspection section of this report for more detailed information.

Four (4) Class 1 valves were disassembled for maintenance/inspection during the outage. The internals of these valves were VT inspected by GPC Q.C. personnel. None of the valves exhibited any unacceptable conditions relevant to the visual examination.

Twenty (20) CRD's were replaced during the outage which facilitated visual examination (VT-1) of the bolts, studs, and nuts.

Per SIL 462, one Shroud Support Access Hole Coverplate was examined.

#### Class II Examinations

Forty-seven (47) welds were examined using surface and/or volumetric NDE techniques as applicable. Two (2) of these welds were examined per NUREG 0619 (UT only), eleven (11) examinations were for the GPC augmented examination commitments, and the remaining thirty-four (34) examinations were per ASME Section XI requirements.

Unacceptable linear indications were found in three (3) welds and were removed by controlled grinding.

### Pressure Testing

One (1) Class 1 hydrostatic test, two (2) Class 2 hydrostatic tests, three (3) Class 2 functional tests, two (2) Class 3 hydrostatic tests, three (3) Class 3 inservice tests, and the Class 1 System Leakage Test were all performed satisfactorily. See Pressure Test Section of Report for specific test identifications and details.

### Augmented Examinations

Eight (8) welds in the non-safety 3 portion of the RWCU System were examined by UT per a GPC commitment to the NRC for NUPEG 0313 Rev. 2 augmented requirements. No reportable indications were detected.

### Component Support Examinations (Class 1, 2 and 3)

One hundred and forty-nine (149) component supports were VT examined per the requirements of ASME Section XI during the outage. Seventeen (17) produced unacceptable results. After maintenance and/or engineering evaluation, all of the unacceptable component supports were determined to be acceptable. Where maintenance was required, the component supports were re-examined to confirm acceptability.

### Repairs and Replacements (Class 1 and 2)

Numerous repair/replacement activities were performed prior to and during the outage. Major repair/replacement activities included weld overlay of six (6) Reactor Recirc. welds. An itemized list of the repair/replacement activities is included in the Repair/Replacement Section of this report.

### Reportable Indications

Following is an itemized list of all welds and components which were reported with indications or were considered unacceptable. All of these items were either repaired and/or evaluated and then determined to be acceptable.

## Summary of Indications

<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Steam Dryer Upper and Lower Guides	Rub marks, displaced metal	Acceptable as is per GPC and GE engineering
Upper Support Bracket 1E11-2HX-A-USC-2	.3" linear indication	Indication removed, area re-welded MWO 1-91-5805
Upper Support Bracket 1E11-2HX-A-USC-3	.6" and .4" linear indications	Indication removed, area re-welded MWO 1-91-6395
Weld 1B31-1RC-12BR-D-3	Spot indication	Acceptable as is per GPC Engineering
Weld overlay 1B31-1RC-28A-7	6 interbead lack of fusion indications	Acceptable as is per SIAI
Weld overlay 1B31-1RC-28B-15	.3" linear indication	Acceptable as is per SIAI
Weld overlay 1E11-1RHR-24B-R-12	7 interbead lack of fusion indications	Acceptable as is per SIAI
Weld 1B31-1RC-28B-2	.5", .42", and .25" linear indications	Weld overlay MWO 1-91-4832
Weld 1E11-2RHR-20A-D-4	3.5" linear MT indication	Indication removed, area re-welded MWO 1-91-6265
Weld 1E11-1RHR-24B-R-7	2.5" linear MT indication	Indication removed, area re-welded MWO 1-91-6264
Weld 1B31-1RC-12BR-A-4	UT indication	Weld overlay MWO 1-91-4832
Weld 1B31-1RC-12BR-E-4	UT indication	Weld overlay MWO 1-91-4832
Weld 1B31-1RC-12AR-G-4	UT indication	Weld overlay MWO 1-91-4832
Weld 1E11-1RHR-20B-D-4	UT indication	Weld overlay MWO 1-91-4832
Support 1B21-FDH-5	Broken fillet welds	Acceptable as is per Bechtel letter
Support 1B21-FDH-10	Bent paddle, slipped bearing	Replaced paddle, reset bearing MWO 1-91-6468



<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Support 1C11-SK1-H3	Bent rod	Acceptable as is per Bechtel letter
Support 1C11-SK1-H5	No load on support	Readjusted rod MWO 1-91-6504
Support 1C11-SK1-H6	Light load on support	Readjusted rod *MWO 1-91-6570
Support 1C11-SK1-H14	Bent rod	Acceptable as is per Bechtel letter
Support 1C11-SK2-H24	No load on clevis	Readjusted rod *MWO 1-91-6570
Support 1C11-SK2-H26	No load on clevis, loose nut	Readjusted rod, tightened loose nut *MWO 1-91-6570
Support 1E11-RHRH-407	Slipped bearing	Reset bearing MWO 1-91-6129
Support 1E11-RHRH-407A	Slipped bearing	Reset bearing MWO 1-91-6129
Support 1E11-SM-1	Restricted movement of paddle	Acceptable as is per Bechtel letter
Support 1P41-SDGH-4	Improper spring can setting	Reset spring can MWO 1-91-5455
Support 1P41-SDGH-7	Improper spring can setting	Reset spring can MWO 1-91-5455
Support 1P41-SWH-19	Bent rod	Repaired rod MWO 1-91-5456
Support 1P41-ISH-33	Bent paddle, slipped bearing	Replaced paddle, bearing acceptable as is per Bechtel letter MWO 1-91-5454
Support 1E11-RHRH-60	Slipped bearing	Reset bearing MWO 1-91-5457
Support 1E41-HPSEH-78	Improper spring can setting	Reset spring can *MWO 1-91-5458
Weld 1B31-1RC-12AR-H-3	3.8" and 1.3" linear indications	Acceptable as is per SIAI

<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Weld 1B31-1RC-12AR-J-3	1.3" linear indication	Acceptable as is per SIAI
Weld 1E11-1RHR-24B-R-13	.4", .15", .25", .6", .6" and .3" linear indications	Acceptable as is per SIAI

\* These MWOs did not require initial/final ANII review.

The following sections of this NIS-1 Report contain the summary of the NDE Examinations performed, provides additional information and gives results of those examinations.



SUMMARY  
OF  
CLASS 1 EXAMINATIONS

Visual Examination of Class 1  
CRD Bolting

ASME Section XI requires examination of the CRD housings (bolts, studs and nuts) whenever the housings are disassembled. Twenty (20) CRDs were replaced during the outage which facilitated visual examination (VT-1) of the bolts, studs and nuts. The subject examinations were performed by GPC Q.C. personnel in conjunction with the CRD maintenance/replacement activities. Listed below are the CRDs which were examined. All of these CRDs were replaced per MWO 1-91-3668.

26-03	38-27
30-03	34-35
34-15	46-35
18-19	34-39
46-19	22-43
50-19	26-43
14-23	34-43
22-23	38-43
34-23	42-43
06-27	42-47

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
B8.10 B-H ASME	A-1A/02	C-6 (120-270) SUPPORT SKIRT-N2D (120 DEGREE) TO N2H (270 DEGREE) C.W.	MT-H-500/05 UT-H-410/04	61-H	S91H1M044 S91H1C106 S91H1U157	NRI N/A UT CAL NRI	N/A
B15.10 B-P ASME	-	CLASS 1 (PT) PRESSURE RETAINING BOUNDARY LEAKAGE TEST	VT-H-720/03	N/A			SEE PRESSURE TEST SECTION OF THIS REPORT.
B7.80 B-G-2 ASME	---	FLANGE BOLTING CRD HOUSING	45QC-INF- 012-05	N/A			EXAM PERFORMED BY GPC QC DEPT.
-- -- NUREG-03130	-	N2A (RINTSA) RINTSA WELD	UT-H-415/05	125-H	S91H1C169 S91H1U231	N/A UT CAL NRI	N/A
B3.100 B-D ASME	A-1/04	N2B (IR) B LOOP RECIRCULATION INLET NOZZLE AT 60 DEGREES	UT-H-480/04	61-H	S91H1C104 S91H1U155	N/A UT CAL NRI	EXAM LIMITATION DUE TO WELDED PAD, 93% COVERAGE.
B3.90 B-D ASME	A-1/04	N2B (N-SH) B LOOP RECIRCULATION INLET NOZZ TO SHELL	UT-H-410/04	61-H	S91H1C115 S91H1U167 S91H1C118 S91H1U171 S91K1C121 S91H1U175	N/A UT CAL NRI N/A UT CAL NRI N/A UT CAL NRI	ONE-SIDED EXAM DUE TO NOZZLE CONFIGURATION.

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CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
-- -- NUREG-03130	-	N2B (RINTSA) RINTSA WELD	UT-H-415/05	125-H	S91H1C170 S91H1U232	N/A UT CAL NRI	N/A
-- -- NUREG-03130	-	N2C (RINTSA) RINTSA WELD	UT-H-415/05	125-H	S91H1C171 S91H1U233	N/A UT CAL NRI	N/A
B3.100 B-D ASME	A-1/04	N2D (IR) B LOOP RECIRCULATION INLET NOZZLE IR	UT-H-480/04	61-H	S91H1C105 S91H1U156	N/A UT CAL NRI	93% COVERAGE DUE TO 4" WELDED PAD.
B3.90 B-D ASME	A-1/04	N2D (N-SH) B LOOP RECIRCULATION INLET NOZZ TO SHELL	UT-H-410/04	61-H	S91H1C116 S91H1U168 S91H1C119 S91H1U172 S91H1C122 S91H1U176	N/A UT CAL NRI N/A UT CAL NRI N/A UT CAL NRI	ONE-SIDED EXAM DUE TO NOZZLE CONFIGURATION.
-- -- NUREG-03130	-	N2D (RINTSA) RINTSA WELD	UT-H-415/05	125-H	S91H1C172 S91H1U234	N/A UT CAL NRI	N/A
B3.100 B-D ASME	A-1/04	N2E (IR) B LOOP RECIRCULATION INLET NOZZLE AT 150 DEGREES	UT-H-480/04	61-H	S91H1C103 S91H1U154	N/A UT CAL NRI	EXAM LIMITATION DUE TO WELDED PAD, 93% COVERAGE.

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CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
B3.9C B-D ASME	A-1/04	N2E (N-SH) B LOOP RECIRCULATION INLET NOZZ TO SHELL	UT-H-410/04	61-H	S91H1C117 S91H1U169 S91H1C120 S91H1U173 S91H1C123 S91H1U177	N/A UT CAL NR1 N/A UT CAL NR1 N/A UT CAL NR1	ONE-SIDED EXAM DUE TO NOZZLE CONFIGURATION.
-- -- NUREG-0313D	-	N2E (RINTSA) RINTSA WELD	UT-H-415/05	125-H	S91H1C173 S91H1U235	N/A UT CAL NR1	N/A
-- -- NUREG-0313D	-	N2G (RINTSA) RINTSA WELD	UT-H-415/05	125-H	S91H1C174 S91H1U236	N/A UT CAL NR1	N/A
-- -- NUREG-0619	A-1/04	N4A (CYL BORE) STRAIGHT CYLINDRICAL BORE SECTION	UT-H-481/01	61-H	S91H1C016 S91H1U043 S91H1C017 S91H1U044 S91H1C030 S91H1U058	N/A UT CAL NR1 N/A UT CAL NR1 N/A UT CAL NR1	N/A
B3.100 B-D NUREG-0619	A-1/04	N4A (IR) A-A LOOP FEEDWATER INLET NOZZLE IR	UT-H-480/04	61-H	S91H1C026 S91H1U054	N/A UT CAL NR1	EXAM LIMITATION DUE TO NOZZLE N12A INTERFERENCE, 90% COVERAGE.
-- -- NUREG-0619	A-1/04	N4A SPARGERS A-A LOOP FEEDWATER INLET NOZZLE	VT-H-755/02	N/A	S91H1V203	SAT	N/A

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CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
-- -- NUREG-0619	A-1/04	N4B (CYL BORE) STRAIGHT CYLINDRICAL BORE SECTION	UT-H-481/01	61-H	S91H1C018 S91H1U045 S91H1C019 S91H1U046 S91H1C031 S91H1U059	N/A UT CAL NR1 N/A UT CAL NR1 N/A UT CAL NR1	ZONE "A" EXAM LIMITATION DUE TO THERMOCOUPLES WELDED TO BARREL, 95% COVERAGE.
B3.100 B-D NUREG-0619	A-1/04	N4B (IR) A-B LOOP FEEDWATER INLET NOZZLE IR	UT-H-480/04	61-H	S91H1C027 S91H1U055	N/A UT CAL NR1	N/A
-- -- NUREG-0619	A-1/04	N4B SPARGERS A-B LOOP FEEDWATER INLET NOZZLE	VT-H-755/02	N/A	S91H1V203	SAT	N/A
-- -- NUREG-0619	A-1/04	N4C (CYL BORE) STRAIGHT CYLINDRICAL BORE SECTION	UT-H-481/01	61-H	S91H1C020 S91H1U047 S91H1C032 S91H1U060 S91H1C021 S91H1U065	N/A UT CAL NR1 N/A UT CAL NR1 N/A UT CAL NR1	N/A
B3.100 B-D NUREG-0619	A-1/04	N4C (IR) B-C LOOP FEEDWATER INLET NOZZLE IR	UT-H-480/04	61-H	S91H1C028 S91H1U056	N/A UT CAL NR1	EXAM LIMITATION DUE TO NOZZLE N12B INTERFERENCE, 90% COVERAGE.
-- -- NUREG-0619	A-1/04	N4C SPARGERS B-C LOOP FEEDWATER INLET NOZZLE	VT-H-755/02	N/A	S91H1V203	SAT	N/A

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CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
-- -- NUREG-0619	A-1/04	N4D (CYL BORE) STRAIGHT CYLINDRICAL BORE SECTION	UT-H-481/01	61-H	S91H1C033 S91H1U061 S91H1C037 S91H1U066 S91H1C036 S91H1U067	N/A UT CAL NRI N/A UT CAL NRI N/A UT CAL NRI	ZONE "A" EXAM LIMITATION DUE TO WELDED THERMOCOUPLES. 95% COVERAGE.
B3.100 B-D NUREG-0619	A-1/04	N4D (1k) B-D LOOP FEEDWATER INLET NOZZLE IR	UT-H-480/04	61-H	S91H1C029 S91H1U057	N/A UT CAL NRI	N/A
-- -- NUREG-0619	A-1/04	N4D SPARGERS B-D LOOP FEEDWATER INLET NOZZLE	VT-H-755/02	N/A	S91H1V203	SAT	N/A
-- -- 1EB 80-13	A-1/04	N5A A LOOP CORE SPRAY INLET NOZZLE	VT-H-755/02	N/A	S91H1V199	SAT	N/A
-- -- 1EB 80-13	A-1/04	N5B B LOOP CORE SPRAY INLET NOZZLE	VT-H-755/02	N/A	S91H1V199	SAT	N/A
B3.100 B-D ASME	A-2/03	N6A (IR) A LOOP RHR HEAD SPRAY NOZZLE IR	UT-H-480/04	64-H	S91H1C047 S91H1U082	N/A UT CAL NRI	N/A

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
B3.90 B-D ASME	A-2/03	N6A (N-H) A LOOP RHR HEAD SPRAY NOZZLE TO HEAD	UT-H-410/04	64-H	S91H1C041 S91H1U076 S91H1C043 S91H1U078 S91H1C045 S91H1U080	N/A UT CAL NRI N/A UT CAL NRI N/A UT CAL NRI	ONE-SIDED EXAM DUE TO NOZZLE CONFIGURATION.
B3.100 B-D ASME	A-2/03	N6B (IR) B LOOP RHR HEAD SPRAY NOZZLE IR	UT-H-480/04	64-H	S91H1C048 S91H1U083	N/A UT CAL NRI	N/A
B3.90 B-D ASME	A-2/03	N6B (N-H) B LOOP RHR HEAD SPRAY NOZZLE TO HEAD	UT-H-410/04	64-H	S91H1C042 S91H1U077 S91H1C044 S91H1U079 S91H1C046 S91H1U081	N/A UT CAL NRI N/A UT CAL NRI N/A UT CAL NRI	ONE-SIDED EXAM DUE TO NOZZLE CONFIGURATION.
B13.10 B-N-1 ASME	-	RPV (INTERIOR) EXAMINATION OF VESSEL INTERIOR	VT-H-755/02	N/A	S91H1V198 S91H1V199 S91H1V200 S91H1V201 S91H1V202 S91H1V203 S91H1V204 S91H1V205 S91H1V206 S91H1V207	SAT SAT SAT SAT SAT SAT SAT SAT SAT SAT	



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CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
--	--	SHROUD SUPPORT ACCESS	GE-UT-211/1	TAPBA -003	AHC-C-001 AHC-D-001 AHC-C-002 AHC-C-003 AHC-D-002	N/A RI N/A N/A N/A	EXAMINED 1 ACCESS HOLE COVER.
SIL-462							
<u>FEEDWATER SYSTEM</u>							
B9.11 B-J NUREG-0619	A-10/04	1821-1FW-12AA-15 PIPE TO TRANSITION PIECE	MT-H-500/05 UT-H-400/10	148-H	S91H1M030 S91H1C005 S91H1U031	NRI N/A NRI	N/A
B9.11 B-J NUREG-0619	A-10/04	1821-1FW-12AA-16 TRANSITION PIECE TO NOZZLE	MT-H-500/05 UT-H-400/10	148-H	S91H1M031 S91H1C011 S91H1U038	NRI N/A NRI	N/A
B9.11 B-J NUREG-0619	A-11/04	1821-1FW-12AB-9 PIPE TO TRANSITION PIECE	MT-H-500/05 UT-H-400/10	148-H	S91H1M023 S91H1C006 S91H1U032	NRI N/A RI	N/A
B9.11 B-J NUREG-0619	A-11/04	1821-1FW-12AB-10 TRANSITION PIECE TO NOZZLE	MT-H-500/05 UT-H-400/10	148-H	S91H1M024 S91H1C008 S91H1U035	NRI N/A NRI	EXAM LIMITATION UPSTREAM DUE TO THERMOCOUPLE. 90% COVERAGE.
B9.11 B-J NUREG-0619	A-12/04	1821-1FW-12BC-9 PIPE TO TRANSITION PIECE	MT-H-500/05 UT-H-400/10	148-H	S91H1M025 S91H1C004 S91H1U030	NRI N/A RI	N/A
B9.11 B-J NUREG-0619	A-12/04	1821-1FW-12BC-10 TRANSITION PIECE TO NOZZLE	MT-H-500/05 UT-H-400/10	148-H	S91H1M026 S91H1C009 S91H1U036	NRI N/A RI	N/A

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>FEEDWATER SYSTEM</u>							
B9.11 B-J NUREG-0619	A-13/05	1B21-1FW-12BD-15 PIPE TO TRANSITION PIECE	MT-H-500/05 UT-H-400/10	148-H	S91H1M027 S91H1C007 S91H1U033	NR1 N/A UT CAL RI GEOMETRY	N/A
B9.11 B-J NUREG-0619	A-13/05	1B21-1FW-12BD-16 TRANSITION PIECE TO NOZZLE	MT-H-500/05 UT-H-400/10	148-H	S91H1M028 S91H1C010 S91H1U037	NR1 N/A UT CAL NR1	EXAM LIMITATION UPSTREAM DUE TO THERMOCOUPLE. 90% COVERAGE.
B9.11 B-J ASME	A-8/07	1B21-1FW-18A-8 PIPE TO VALVE	MT-H-500/05 UT-H-400/10	77-H	S91H1M066 S91H1C248 S91H1U338 S91H1C249 S91H1U339 S91H1U340	NR1 N/A UT CAL NR1 N/A UT CAL NR1 N/A THICKNESS	ONE SIDED EXAM DUE TO VALVE CONFIGURATION.
B10.10 B-K-1 ASME	A-8/07	1B21-1FW-18A-11HL-1 THRU 4 DEVICE B21-FDH-12	MT-H-500/05	N/A	S91H1M057	NR1	N/A
B10.10 B-K-1 ASME	A-8/07	1B21-1FW-18A-11HL-5 THRU 8 DEVICE B21-FDH-8	MT-H-500/05	N/A	S91H1M058	NR1	N/A
B9.11 B-J ASME	A-9/06	1B21-1FW-18B-7 PIPE TO VALVE	MT-H-500/05 UT-H-400/10	77-H	S91H1M033 S91H1C034 S91H1U062 S91H1C035 S91H1U063	NR1 N/A UT CAL RI GEOMETRY N/A UT CAL RI GEOMETRY	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>FEEDWATER SYSTEM</u>							
B10.10 B-K-1 ASME	A-9/06	1821-1FW-188-9HL-5 THRU 8 DEVICE FDH-4	MT-H-500/05	N/A	S91H1M056	NRI	N/A
B9.11 B-J ASME	A-9/06	1821-1FW-188-10 PIPE TO ELBOW	MT-H-500/05 UT-H-400/10	77-H	S91H1M045 S91H1C124 S91H1U178	NRI N/A RI	N/A UT CAL GEOMETRY
<u>RAIN STEAM SYSTEM</u>							
B9.11 B-J ASME	A-4/05	1821-1MS-24A-1 NOZZLE TO TRANSITION PIECE	MT-H-500/05 UT-H-400/10	12-H	S91H1M029 S91H1C025 S91H1U052	NRI N/A NRI	N/A UT CAL
B10.10 B-K-1 ASME	A-4/05	1821-1MS-24A-5HL-1 THRU 4 DEVICE B21-MS-HA1	MT-H-500/05	N/A	S91H1M035	NRI	N/A
B10.10 B-K-1 ASME	A-7/05	1821-1MS-24D-5HL-1 THRU 4 DEVICE B21-HD1	MT-H-500/05	N/A	S91H1M034	NRI	N/A
B10.10 B-K-1 ASME	A-7/05	1821-1MS-24D-8PS-A-1 AND 2 DEVICE B21-HD2	MT-H-500/05	N/A	S91H1M046	NRI	N/A
B9.11 B-J ASME	A-7A/01	1821-1MS-24D-16 PIPE TO VALVE	MT-H-500/05 UT-H-400/10	147-H	S91H1M043 S91H1C099 S91H1U150 S91H1C101 S91H1U152	NRI N/A RI N/A RI	ONE SIDED EXAM DUE TO VALVE CONFIGURATION. UT CAL GEOMETRY UT CAL GEOMETRY

E.I. HATCH UNIT : FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>MAIN STEAM SYSTEM</u>							
B9.11 B-J ASME	A-7A/01	1B21-1MS-24D-17 VALVE TO PIPE	MT-H-500/05 UT-H-400/10	147-H	S91H1M042 S91H1C100 S91H1U151 S91H1C102 S91H1U153	NR1 N/A UT CAL NR1 N/A UT CAL RI GEOMETRY	ONE SIDED EXAM DUE TO VALVE CONFIGURATION.
<u>RECIRC. SYSTEM</u>							
B5.10 B-F NUREG-0313D	A-39/00	1B31-1RC-4JP-B-1 N8B NOZZLE TO SAFE-END	PT-H-600/03 UT-H-409/07	120-H 121-H	S91H1P026 S91H1C166 S91H1U228 S91H1C167 S91H1U229 S91H1C168 S91H1U229 S91H1U224	NI N/A UT CAL NR1 N/A UT CAL NR1 N/A UT CAL NR1 N/A THICKNESS	N/A
B9.11 B-J NUREG-0313D	A-39/00	1B31-1RC-4JP-B-2 SAFE-END TO PENETRATION SEAL	PT-H-600/03 UT-H-400/10	80-H	S91H1P027 S91H1C096 S91H1U147 S91H1C097 S91H1U148 S91H1U223	NI N/A UT CAL NR1 N/A UT CAL NR1 N/A THICKNESS	ONE-SIDED EXAM DUE TO CONFIGURATION.
B9.11 B-J NUREG-0313C	A-18/03	1B31-1RC-12AR-F-1 B-C TO PIPE	PT-H-600/03 GE-UT-208/1	17-H	S91H1P015 C-012 D-021 D-022 C-013 D-023	NR1 N/A UT CAL NR1 NR1 N/A UT CAL RI GEOMETRY	ONE-SIDED EXAM DUE TO BRANCH CONNECTION CONFIGURATION.

E-1. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RECIRC. SYSTEM</u>							
B9.12 B-J NUREG-0313A	A-18/03	1B31-1RC-12AR-F-1LD LONG SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/03 LT-H-400/10	17-H	S91H1P016 S91H1C092 S91H1U142	NR1 N/A UT CAL NR1	N/A
B9.11 B-J NUREG-0313E	A-18/03	1B31-1RC-12AR-F-2 PIPE TO ELBOW OVERLAY	GE-UT-212/1	134-H	C-023 D-039 D-040	N/A UT CAL NR1 NR1	N/A
B9.11 B-J NUREG-0313E	A-18/03	1B31-1RC-12AR-F-3 ELBOW TO PIPE OVERLAY	UT-H-808/02	134-H	S91H1C253 S91H1U347	N/A UT CAL NR1	N/A
B9.11 B-J NUREG-0313E	A-18/03	1B31-1RC-12AR-F-4 PIPE TO SAFE-END OVERLAY	UT-H-808/02	134-H	S91H1C250 S91H1U344	N/A UT CAL NR1	N/A
B9.10 B-F NUREG-0313C	A-18/03	1B31-1RC-12AR-F-5 SAFE-END TO NOZZLE	UT-H-810/01	85-H 31-H	S91H1C220 S91H1U292 S91H1C222 S91H1U294 S91H1C223 S91H1U295 S91H1C224 S91H1U296 S91H1C225 S91H1U297	N/A UT CAL NR1 N/A UT CAL NR1 N/A UT CAL NR1 N/A UT CAL NR1 N/A UT CAL NR1	N/A
B9.11 B-J NUREG-0313E	A-18/03	1B31-1RC-12AR-G-3 ELBOW TO PIPE OVERLAY	UT-H-808/02	134-H	S91H1C191 S91H1U256	N/A UT CAL NR1	N/A

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CLASS 1 COMPONENTS

ASME SECTION XI	EX-AM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
B9.11 B-J NUREG-0313F	A-18/03	1831-1RC-12AR-G-4 PIPE TO SAFE-END	PT-H-600/03 UT-H-400/10 UT-H-800/02	17-H	S91HTP020 S91HTP074 S91HTC161 S91HTU221 S91HTC162 S91HTU222 S91HTC196 S91HTU261 S91HTC205 S91HTU275 S91HTU369	NR1 NR1 N/A UT CAL NR1 N/A UT CAL R1 LINEAR LGD N/A UT CAL NR1 N/A UT CAL NR1 N/A THICKNESS	SEE INF # 191H1016L
B9.11 B-J NUREG-0313E	A-18/03	1831-1RC-12AR-G-4 PIPE TO SAFE-END OVERLAY	PT-H-600/03 UT-H-400/03 UT-H-800/02	17A-H	S91HTP083 S91HTC285 S91HTU405 S91HTC287 S91HTU407 S91HTC288 S91HTU408 S91HTU418 S91HTU419 S91HTU386	NR1 N/A UT CAL NR1 N/A UT CAL NR1 N/A NR1 THICKNESS N/A THICKNESS N/A THICKNESS	N/A
B5.10 B-F NUREG-0313C	A-18/03	1831-1RC-12AR-G-5 SAFE-END TO NOZZLE	PT-H-600/03 UT-H-810/01	85-H 31-H	S91HTP021 S91HTC211 S91HTU281 S91HTC212 S91HTU282 S91HTC215 S91HTU283	NR1 N/A UT CAL NR1 N/A UT CAL NR1 N/A UT CAL NR1	N/A

RECIRC. SYSTEM

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CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	RECIRC. SYSTEM	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
B9.11 B-J NUREG-0313E	A-18/03	1831-1RC-12AR-H-2 PIPE TO ELBOW OVERLAY	DE-UT-212/1	134-H	C-026 D-044 D-045	N/A NRI NRI	UT CAL	NO CRACK. EXAM ON EITHER SIDE OF WELD FROM 9.25" TO 11.25" DUE TO FLOOR GRATING. 95% COVERAGE.
B9.11 B-J NUREG-0313E	A-18/03	1831-1RC-12AR-H-3 ELBOW TO PIPE OVERLAY	UT-H-808/02	134-H	S91H1C269 S91H1U357 S91H1U377 S91H1U329 S91H1U330	N/A RI N/A N/A N/A	UT CAL LINEAR IND. IND EVAL SIZING SIZING	LINEAR INDICATIONS FOUND. ACCEPTABLE AS IS PER GPC ENGINEERING. SEE INF 191H1021.
B9.11 B-J NUREG-0313E	A-18/03	1831-1RC-12AR-H-4 PIPE TO SAFE-END OVERLAY	UT-H-808/02	134-H	S91H1C267 S91H1U366	N/A NRI	UT CAL	N/A
B5.10 B-F NUREG-0313C	A-18/03	1831-1RC-12AR-H-5 SAFE-END TO NOZZLE	UT-H-810/01	B5-H 31-H	S91H1C230 S91H1U302 S91H1C231 S91H1U303 S91H1C232 S91H1U304 S91H1C233 S91H1U305	N/A NRI N/A NRI N/A NRI N/A NRI	UT CAL UT CAL UT CAL UT CAL UT CAL UT CAL	N/A

E.I. MATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
B9.11	A-18/03	1831-1RC-12AR-J-1	PT-H-600/03	17-H	S91H1P010	NR1	ONE-SIDED EXAM DUE TO BRANCH CONNECTION CONFIGURATION.
B-J		B-C TO PIPE	UT-H-400/10		S91H1C186	N/A	
NUREG-0313C			GE-UT-208/1		S91H1U251	NR1	
					S91H1C187	N/A	
					S91H1U252	NR1	
					C-014	N/A	
					D-024	NR1	
					D-025	NR1	
					C-015	N/A	
					D-026	RI	GEOMETRY
B9.11	A-18/03	1831-1RC-12AR-J-3	UT-H-808/02	134-H	S91H1C261	N/A	LINEAR INDICATIONS FOUND. ACCEPTABLE AS IS PER GPC ENGINEERING. SEE INF 191H1021.
B-J		ELBOW TO PIPE OVERLAY			S91H1U339	RI	
NUREG-0313E					S91H1U376	N/A	
					S91H1U358	N/A	
B9.11	A-18/03	1831-1RC-12AR-K-1	PT-H-600/05	17-H	S91H1P009	NR1	ONE-SIDED EXAM DUE TO BRANCH CONNECTION CONFIGURATION.
B-J		B-C TO PIPE	GE-UT-208/1		C-016	N/A	
NUREG-0313C					D-031	NR1	
					D-032	NR1	
					C-019	N/A	
					D-033	RI	GEOMETRY
B9.12	A-18/03	1831-1RC-12AR-K-11D	PT-H-600/03	17-H	S91H1P008	NR1	N/A
B-J		LONGITUDINAL SEAM	UT-H-400/10		S91H1C091	N/A	
NUREG-0313A		WELD EXTENDING DOWNSTREAM			S91H1U141	NR1	
B9.11	A-18/03	1831-1RC-12AR-K-2	UT-212/1	134-H	C-027	N/A	N/A
B-J		PIPE TO ELBOW OVERLAY			D-046	NR1	
NUREG-0313E					D-047	NR1	



E.I. MATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
RECIRC. SYSTEM							
B9.11 B-J NUREG-0313E	A-18/03	1831-1RC-12BR-A-3 ELBOW TO PIPE OVERLAY	UT-W-808/02	134-W	S91W1C241 S91W1U317	N/A NRI	N/A
B9.11 B-J NUREG-0313F	A-19/03	1831-1RC-12BR-A-4 PIPE TO SAFE-END	PT-W-600/03 UT-W-400/10 UT-W-800/02	17-W	S91W1P022 S91W1P059 S91W1C157 S91W1U217 S91W1C158 S91W1U218 S91W1C202 S91W1U272 S91W1C203 S91W1U270 S91W1U322	NRI NRI N/A NRI N/A RI N/A NRI N/A NRI N/A N/A	SEE 3A < 3B
B9.11 B-J NUREG-0313E	A-19/03	1831-1RC-12BR-A-4 PIPE TO SAFE-END OVERLAY	PT-W-600/03 UT-W-400/03 UT-W-800/02	134-W	S91W1P079 S91W1C276 S91W1U396 S91W1C277 S91W1U397 S91W1C278 S91W1U398 S91W1U420 S91W1U379 S91W1U331	NRI N/A NRI N/A NRI N/A NRI N/A N/A N/A	N/A
B9.11 B-J NUREG-0313C	A-19/03	1831-1RC-12BR-B-1 B-C TO PIPE	PT-W-600/03 GE-UT-208/1	17-W	S91W1P029 C-010 D-016 D-019 C-011 D-020	NRI N/A NRI NRI N/A RI	ONE-SIDED EXAM DUE TO BRANCH CONNECTION CONFIGURATION.

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RECIRC. SYSTEM</u>							
B9.12 B-J NUREG-0313A	A-19/03	1B31-1RC-12BR-B-1LD LONGITUDINAL SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/03 UT-H-400/10	17-H	S91H1P023 S91H1C090 S91H1U140	NRI N/A UT CAL NRI	N/A
B9.11 B-J NUREG-0313E	A-19/03	1B31-1RC-12BR-B-3 ELBOW TO PIPE OVERLAY	UT-H-808/02	134-H	S91H1C193 S91H1U258	N/A UT CAL NRI	N/A
B9.11 B-J NUREG-0313E	A-19/03	1B31-1RC-12BR-C-2 PIPE TO ELBOW OVERLAY	GE-UT-212/1	134-H	C-020 D-034 D-035 C-021 D-036	N/A UT CAL NRI NRI N/A UT CAL NRI	N/A
B9.11 B-J NUREG-0313E	A-19/03	1B31-1RC-12BR-C-3 ELBOW TO PIPE OVERLAY	UT-H-808/02	134-H	S91H1C131 S91H1U190	N/A RI	PREVIOUSLY RECORDED LINEAR INDICATION. NO APPARENT GROWTH.
B9.11 B-J NUREG-0313E	A-19/03	1B31-1RC-12BR-C-4 PIPE TO SAFE-END OVERLAY	UT-H-808/02	134-H	S91H1C204 S91H1U271	N/A UT CAL NRI	N/A
B9.10 B-F NUREG-0313E	A-19/03	1B31-1RC-12BR-C-5 SAFE-END TO NOZZLE	UT-H-409/07	144-H 31-H	S91H1C149 S91H1U209 S91H1C153 S91H1U213 S91H1C154 S91H1U214	N/A UT CAL NRI N/A UT CAL NRI N/A UT CAL NRI	N/A

E.I. MATCH UNIT 1 FALL 1971 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RECIRC. SYSTEM</u>							
B9.11 B-J NUREG-0313E	A-19/03	1831-1RC-12BR-D-2 PIPE TO ELBOW OVERLAY	GE-UT-212/1	134-H	C-024 D-041 D-042 C-025 D-043	N/A UT CAL NRI NRI N/A UT CAL NRI	N/A
B9.11 B-J NUREG-0313E	A-19/03	1831-1RC-12BR-D-3 ELBOW TO PIPE OVERLAY	UT-H-808/02	134-H	S91H1C129 S91H1U185 S91H1U191	N/A UT CAL RI LINEAR IND. N/A SIZING	SEE INF # 191H1010
B5.10 B-F NUREG-0313E	A-19/03	1831-1RC-12BR-D-5 SAFE-END TO NOZZLE	PT-H-600/03 UT-H-810/01	85-H 31-H	S91H1P019 S91H1C108 S91H1U263 S91H1C109 S91H1U264 S91H1C201 S91H1U269	RI LINEAR IND. N/A UT CAL N/A UT CAL N/A UT CAL RI GEOMETRY	0.1" LINEAR CODE ALLOWABLE PT INDICATION.
B9.11 B-J NUREG-0313E	A-19/03	1831-1RC-12BR-E-2 PIPE TO ELBOW OVERLAY	GE-UT-212/1	134-H	C-022 D-037 D-038	N/A UT CAL NRI NRI	N/A
B9.11 B-J NUREG-0313E	A-19/03	1831-1RC-12BR-E-3 ELBOW TO PIPE OVERLAY	UT-H-808/02	134-H	S91H1C134 S91H1U194	N/A UT CAL RI LINEAR IND.	PREVIOUSLY RECORDED LINEAR INDICATIONS. NO APPARENT GROWTH.

E.I. MATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
RECIRC. SYSTEM							
B9.11 B-J NUREG-0313F	A-19/03	1831-18C-12BR-E-4 PIPE TO SAFE-END	PT-H-600/03 UT-H-400/10 UT-H-800/02	17-H	S91H1P018 S91H1P073 S91H1C159 S91H1U219 S91H1C160 S91H1U220 S91H1C163 S91H1U226 S91H1C164 S91H1U227 S91H1U337	NR1 NR1 N/A UT CAL NR1 N/A R1 N/A R1 N/A R1 N/A NR1 N/A	SEE INF # 191H1018.
B9.11 B-J NUREG-0313E	A-19/03	1831-18C-12BR-E-4 PIPE TO SAFE-END OVERLAY	PT-H-600/03 UT-H-400/03	134-H	S91H1P080 S91H1C279 S91H1U399 S91H1C280 S91H1U400 S91H1C281 S91H1U401 S91H1U343 S91H1U382	NR1 N/A NR1 N/A NR1 N/A NR1 N/A N/A N/A	N/A
B9.10 B-F NUREG-0313E	A-19/03	1831-18C-12BR-E-5 SAFE-END TO NOZZLE	UT-H-400/07	144-H 31-H	S91H1C148 S91H1U208 S91H1C155 S91H1U215 S91H1C156 S91H1U216	N/A NR1 N/A NR1 N/A R1	PREVIOUSLY RECORDED INDICATION NO APPARENT GROWTH.
B9.11 B-J NUREG-0313E	A-16/03	1831-18C-2.7AM-1 CAP TO PIPE OVERLAY	UT-H-400/03	134-H	S91H1C086 S91H1U136	N/A R1	PREVIOUSLY RECORDED INDICATION NO APPARENT GROWTH.

E.L. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RECIRC. SYSTEM</u>							
B10.10 B-K-1 NUREG-0313L	A-16/03	1B31-1RC-22AM-1HL-B-1 AND 2 DEVICE B31-HA4	PT-H-600/03	N/A	S91H1P031	NRI	N/A
B9.12 B-J NUREG-0313A	A-16/03	1B31-1RC-22AM-3LD LONGITUDINAL SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/03 UT-H-40C/10	47-H	S91H1P028 S91H1C150 S91H1U210	NRI N/A UT CAL NRI	N/A
B9.11 B-J NUREG-0313E	A-16/03	1B31-1RC-22AM-4 PIPE TO CAP OVERLAY	UT-H-40B/03	134-H	S91H1C085 S91H1U135	N/A UT CAL RI LINEAR IND.	PREVIOUSLY RECORDED INDICATION NO APPARENT GROWTH.
B9.11 B-J NUREG-0313E	A-17/03	1B31-1RC-22BM-1 CAP TO PIPE OVERLAY	UT-H-40B/03	134-H	S91H1C188 S91H1U253	N/A UT CAL NRI	N/A
B10.10 B-K-1 NUREG-0313L	A-17/03	1B31-1RC-22BM-3HL-A-1 AND 2 DEVICE B31-HB3	PT-H-600/03	N/A	S91H1P030	RI LINEAR IND.	.15" CODE ALLOWABLE LINEAR INDICATION.
B10.10 B-K-1 NUREG-0313L	A-17/03	1B31-1RC-22BM-3HL-B-1 AND 2 DEVICE B31-HB3	PT-H-600/03	N/A	S91H1P077	NRI	N/A
B9.11 B-J NUREG-0313E	A-17/03	1B31-1RC-22BM-4 PIPE TO CAP OVERLAY	UT-H-40B/03	134-H	S91H1C189 S91H1U254	N/A UT CAL RI LINEAR IND.	PREVIOUSLY RECORDED INDICATION NO APPARENT GROWTH.

## E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RECIRC. SYSTEM</u>							
B5.10 B-F NUREG-0313C	A-14/04	1831-1RC-28A-1 NOZZLE TO SAFE END	UT-H-409/07 UT-H-810/01	84-H 29-H	S91H1C226 S91H1U298 S91H1C229 S91H1U301 S91H1C270 S91H1U373	N/A UT CAL NRI N/A UT CAL NRI N/A UT CAL NRI	N/A
B9.11 B-J NUREG-0313E	A-14/04	1831-1RC-28A-2 SAFE-END TO PIPE OVERLAY	UT-H-808/02	134-H	S91H1C257 S91H1U351	N/A UT CAL RI LINEAR IND.	PREVIOUSLY RECORDED LINEAR INDICATIONS, NO APPARENT GROWTH.
B9.11 B-J NUREG-0313C	A-14/04	1831-1RC-28A-3 PIPE TO ELBOW	PT-H-600/03 GE-UT-208/1	151-H	S91H1P004 F-007 D-009 3-010	NRI N/A UT CAL NRI NRI	N/A
B9.11 B-J NUREG-0313E	A-14/04	1831-1RC-28A-4 ELBOW TO PIPE OVERLAY	GE-UT-212/1	134-H	C-028 D-048 D-049	N/A UT CAL NRI NRI	N/A
B9.11 B-J NUREG-0313E	A-14/04	1831-1RC-28A-6 PIPE TO ELBOW OVERLAY	UT-H-808/02	134-H	S91H1C252 S91H1U346	N/A UT CAL RI LINEAR IND.	PREVIOUSLY RECORDED LINEAR INDICATIONS, NO APPARENT GROWTH.
B9.11 B-J NUREG-0313E	A-14/04	1831-1RC-28A-7 ELBOW TO VALVE OVERLAY	GE-UT-212/1	134-H	C-001 D-001 D-002	N/A UT CAL RI LINEAR IND. RI LINEAR IND.	SEE INF # 191H1015.

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RECIRC. SYSTEM</u>							
B9.11 B-J NUREG-0313E	A-14/04	1831-18C-28A-B VALVE TO PIPE OVERLAY	AE-UT-212/1	134-H	C-004 D-011 D-012 C-005 D-013 D-014	N/A RI RI N/A RI RI	PREVIOUSLY RECORDED LINEAR INDICATIONS. NO APPARENT GROWTH.
B9.11 B-J NUREG-0313C	A-14/04	1831-18C-28A-9 PIPE TO ELBOW OVERLAY	PT-H-600/03 JT-H-400/10 GE-UT-208/1	151-H	S91H1P007 S91H1C095 S91H1U145 C-003 D-005 D-006	NR1 N/A NR1 N/A RI RI	N/A
B9.11 B-J NUREG-0313E	A-14/04	1831-18C-28A-10 ELBOW TO PUMP OVERLAY	UT-H-408/03	134-H	S91H1C098 S91H1U149	N/A NR1	N/A
B9.11 B-J NUREG-0313C	A-148/01	1831-18C-28A-11 PUMP TO PIPE OVERLAY	UT-H-400/10 GE-UT-208/1	151-H	S91H1C254 S91H1U348 S91H1C255 S91H1U349 C-036 D-061 D-062 C-037 D-063	N/A RI N/A RI N/A NR1 NR1 N/A RI	ONE-SIDED EXAM DUE TO PUMP CONFIGURATION.
B9.11 B-J NUREG-0313E	A-148/01	1831-18C-28A-12 PIPE TO VALVE OVERLAY	UT-H-408/03 UT-H-808/02	134-H	S91H1C251 S91H1U345 S91H1C263 S91H1U362	N/A RI N/A RI	PREVIOUSLY RECORDED LINEAR INDICATIONS. NO APPARENT GROWTH.



E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RECIRC. SYSTEM</u>							
B9.11 B-J NUREG-0313C	A-14B/01	1B31-1RC-28A-13 VALVE TO ELBOW	PT-H-600/03 GE-UT-212/1	151-H	S91H1P013 C-008 D-015 D-016 C-009 D-017	NRI N/A RI RI N/A NRI	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.
B9.11 B-J NUREG-0313E	A-14B/01	1B31-1RC-28A-14 ELBOW TO PIPE OVERLAY	GE-UT-212/1	134-H	C-002 D-003 D-004	N/A RI RI	PREVIOUSLY RECORDED LINEAR INDICATIONS, NO APPARENT GROWTH.
B9.31 B-J NUREG-0313C	A-14B/01	1B31-1RC-28A-14BC PIPE TO BC	PT-H-600/03 UT-H-400/10	151-H	S91H1P005 S91H1C003 S91H1U133 S91H1C088 S91H1U138	NRI N/A NRI N/A RI	ONE-SIDED EXAM DUE TO BRANCH CONNECTION CONFIGURATION.
B9.11 B-J NUREG-0313C	A-14B/01	1B31-1RC-28A-15 PIPE TO TEE	GE-UT-208/1	151-H	C-038 D-064 D-065 C-039 D-066	N/A RI RI N/A NRI	ONE-SIDED EXAM DUE TO TEE CONFIGURATION.
B10.10 B-K-1 NUREG-0313L	A-14B/01	1B31-1RC-28A-15RL-1 AND 2 DEVICE B31-SSA13	PT-H-600/03	N/A	S91H1P024	NRI	N/A
B10.10 B-K-1 NUREG-0313L	A-14B/01	1B31-1RC-28A-15RL-3 AND 4 DEVICE B31-SSA12	PT-H-600/03	N/A	S91H1P025	NRI	N/A

E.I. MATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
RECIRC. SYSTEM							
B9.11 B-J NUREG-0313C	A-14B/01	1B31-1RC-28A-16 TEE TO CROSS	UT-H-400/10	92-H	S91H1C182 S91H1U247	N/A UT CAL NRI	N/A
B9.11 B-J NUREG-0313C	A-14C/01	1B31-1RC-28A-17 CROSS TO REDUCER	UT-H-400/10	92-H	S91H1C183 S91H1U248	N/A UT CAL NRI	N/A
B5.10 B-F NUREG-0313C	A-15/04	1B31-1RC-28B-1 NOZZLE TO SAFE-END	UT-H-810/01	84-H 29-H	S91H1C235 S91H1U307 S91H1C237 S91H1U309 S91H1C238 S91H1U310 S91H1C239 S91H1U311 S91H1C240 S91H1U312	N/A UT CAL NRI N/A UT CAL NRI N/A UT CAL NRI N/A UT CAL NRI N/A UT CAL NRI	N/A
B9.11 B-J NUREG-0313C	A-15/04	1B31-1RC-28B-2 SAFE-END TO PIPE	PT-H-600/03 UT-H-800/02	151-H	S91H1P017 S91H1P057 S91H1C130 S91H1U186 S91H1U187 S91H1U188 S91H1U189 S91H1U323	NRI NRI N/A UT CAL RI LINEAR IND. N/A SIZING N/A SIZING N/A SIZING N/A THICKNESS	SEE INF # 191H1011.

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RECIRC. SYSTEM</u>							
B9.11 B-J NUREG-0313E	A-15/04	1831-19C-286-2 SAFE-END TO PIPE OVERLAY	PT-H-600/03 UT-H-408/03 UT-H-808/02	134-H	S91H1P082 S91H1C284 S91H1U404 S91H1C286 S91H1U406 S91H1C289 S91H1U409 S91H1C290 S91H1U410 S91H1U421 S91H1U318 S91H1U392	NRI N/A NRI N/A NRI N/A NRI N/A NRI N/A N/A N/A N/A	N/A UT CAL UT CAL UT CAL UT CAL UT CAL UT CAL THICKNESS THICKNESS THICKNESS
B9.11 B-J NUREG-0313E	A-15/04	1831-19C-286-3 PIPE TO ELBOW OVERLAY	UT-H-808/02	134-H	S91H1C135 S91H1U195	N/A NRI	N/A
B9.11 B-J NUREG-0313E	A-15/04	1831-19C-286-4 ELBOW TO PIPE OVERLAY	UT-H-808/02	134-H	S91H1C190 S91H1U255	N/A NRI	N/A
B9.11 B-J NUREG-0313E	A-15/04	1831-19C-286-5 PIPE TO TEE	UT-H-408/10 GE-UT-208/1	151-H	S91H1C246 S91H1U333 S91H1C247 S91H1U334 S91H1U335 S91H1U336 S91H1U375 C-033 D-057	N/A RI N/A RI RI N/A N/A N/A RI	UT CAL GEOMETRY UT CAL GEOMETRY GEOMETRY SIZING IND EVAL UT CAL GEOMETRY
						ONE-SIDED EXAM DUE TO TEE CONFIGURATION.	

5.1. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
RECIRC. SYSTEM							
B9.11 B-J NUREG-0313C	A-15/04	1831-18C-288-7 PIPE TO ELBOW	PT-H-600/03 UT-H-400/10 UT-H-800/02	151-H	S91H1P006 S91H1C094 S91H1U144 S91H1C165 S91H1U183	NRI N/A UT CAL NRI N/A UT CAL NRI	N/A
B9.11 B-J NUREG-0313E	A-15/04	1831-18C-288-8 ELBOW TO VALVE OVERLAY	UT-H-408/03 UT-H-808/02	134-H	S91H1C264 S91H1U363 S91H1C269 S91H1U370	N/A UT CAL NRI N/A UT CAL RI LINEAR IND.	PREVIOUSLY RECORDED LINEAR INDICATION, NO APPARENT GROWTH.
B9.11 B-J NUREG-0313E	A-15/04	1831-18C-288-9 VALVE TO PIPE OVERLAY	UT-H-408/03 UT-H-808/02	134-H	S91H1C262 S91H1U361 S91H1C265 S91H1U364	N/A UT CAL NRI N/A UT CAL NRI	N/A
B9.11 B-J NUREG-0313E	A-15/04	1831-18C-288-10 PIPE TO ELBOW OVERLAY	GE-UT-212/1	134-H	C-030 D-052 D-053	N/A UT CAL RI LINEAR IND. RI LINEAR IND.	EXAM LIMITATION DUE TO BRAIN LINE INTERFERENCE, 90% COVERAGE PREVIOUSLY RECORDED LINEAR INDICATIONS NO APPARENT GROWTH.
B9.11 B-J NUREG-0313E	A-15/04	1831-18C-288-11 ELBOW TO PUMP OVERLAY	UT-H-408/03	134-H	S91H1C219 S91H1U290	N/A UT CAL NRI	N/A
B9.31 B-J NUREG-0313C	A-15B/01	1831-18C-288-12BC PIPE TO BC	PT-H-600/03 UT-H-400/10	151-H	S91H1P012 S91H1C089 S91H1U139 S91H1C093 S91H1U143	NRI N/A UT CAL NI N/A UT CAL NRI	ONE-SIDED EXAM DUE TO BRANCH CONNECTION CONFIGURATION.

E.1. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RECIRC. SYSTEM</u>							
B9.11	A-156/01	1B31-1RC-28B-13	UT-H-408/03	134-H	S91H1C125	N/A	N/A
B-J		PIPE TO VALVE	UT-H-808/02		S91H1U179	NRI	
NUREG-0313E		OVERLAY			S91H1C192	N/A	UT CAL
					S91H1U257	NRI	
B9.11	A-156/01	1B31-1RC-28B-14	UT-H-808/02	134-H	S91H1C104	N/A	N/A
B-J		VALVE TO ELBOW			S91H1U259	NRI	
NUREG-0313E		OVERLAY					
B9.11	A-156/01	1B31-1RC-28B-15	GE-UT-212/1	134-H	C-006	N/A	UT CAL
B-J		ELBOW TO PIPE			D-007	RI	LINEAR IND.
NUREG-0313E		OVERLAY			D-008	RI	LINEAR IND.
B9.11	A-156/01	1B31-1RC-28B-16	GE-UT-212/1	134-H	C-029	N/A	UT CAL
B-J		PIPE TO TEE			D-050	NRI	
NUREG-0313E		OVERLAY			D-051	NRI	
B10.10	A-156/01	1B31-1RC-28B-16RL-1 AND 2	PT-H-600/03	N/A	S91H1P043	NRI	N/A
B-K-1		DEVICE B31-55B13					
NUREG-0313L							
B10.10	A-156/01	1B31-1RC-28B-16RL-3 AND 4	PT-H-600/03	N/A	S91H1P044	NRI	N/A
B-K-1		DEVICE B31-55B12					
NUREG-0313L							
B9.11	A-156/01	1B31-1RC-28B-17	UT-H-400/10	92-H	S91H1C184	N/A	UT CAL
B-J		TEE TO CROSS			S91H1U249	NRI	
NUREG-0313C							

E.I. MATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RECIRC. SYSTEM</u>							
B9.11 B-J NUREG-0313C	A-158/01	1B31-1RC-288-18 CROSS TO REDUCER	UT-H-400/10	92-H	S91H1C185 S91H1U250	N/A NRI	N/A
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
B9.11 B-J NUREG-0313E	A-23/03	1E11-1RHR-208-D-3 ELBOW TO PIPE OVERLAY	UT-H-408/03 UT-H-808/02	134-H	S91H1C197 S91H1U262	N/A NRI	N/A
B9.11 B-J NUREG-0313F	A-23/03	1E11-1RHR-208-D-4 PIPE TO PIPE	PT-H-600/03 UT-H-800/02	130-H	S91H1P045 S91H1P058 S91H1C200 S91H1U265 S91H1U266 S91H1U267 S91H1U324	NRI NRI N/A RI N/A N/A N/A	SEE INF # 191H1018.  UT CAL LINEAR IND. SIZING SIZING THICKNESS
B9.11 B-J NUREG-0313E	A-23/03	1E11-1RHR-208-D-4 PIPE TO PIPE OVERLAY	PT-H-600/03 UT-H-408/03 UT-H-808/02	134-H	S91H1P075 S91H1P076 S91H1C282 S91H1U402 S91H1C291 S91H1U411 S91H1C292 S91H1U412 S91H1C293 S91H1U413 S91H1U371 S91H1U342	RI NRI N/A NRI N/A NRI N/A NRI N/A N/A N/A N/A	SEE INF # 191H1022.  LINEAR IND. UT CAL UT CAL UT CAL UT CAL UT CAL THICKNESS THICKNESS

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM. FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
B9.11 B-J NUREG-0313C	A-23/03	1E11-1RHR-20B-D-5 PIPE TO VALVE	UT-H-810/01	130-H	S91H1P070 S91H1C206 S91H1U275 S91H1C210 S91H1U260 S91H1U380 S91H1U422	NR: N/A UT CAL NR: N/A UT CAL NR: N/A SIZING N/A THICKNESS	ONE SIDED EXAM DUE TO VALVE CONFIGURATION.
B9.11 B-J NUREG-0313C	A-23/03	1E11-1RHR-20B-D-5 PIPE TO VALVE OVERLAY	PT-H-600/03 UT-H-408/03 UT-H-808/02	135-H	S91H1P084 S91H1C283 S91H1U403 S91H1C294 S91H1U414 S91H1C295 S91H1U415 S91H1C296 S91H1U416 S91H1U423 S91H1U394	NR: N/A UT CAL NR: N/A UT CAL NR: N/A UT CAL NR: N/A UT CAL N/A THICKNESS N/A THICKNESS	WEL TO IMPROVE INSPECTABILITY.
B9.11 B-J ASME	A-23/03	1E11-1RHR-20B-D-8 PIPE TO ELBOW	MT-H-500/05 UT-H-400/10	14-H	S91H1M048 S91H1C136 S91H1U196	NR: N/A UT CAL NR:	N/A
B10.10 B-K-1 ASME	A-23/03	1E11-1RHR-20B-D-9HL-1 THRU 4 DEVICE E11-RHRH-328	MT-H-500/05	N/A	S91H1M049	NR:	N/A



E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
B9.11 B-J ASME	A-23/03	1E11-1RHR-208-D-14 FLUED HEAD TO PIPE	MT-H-500/05 UT-H-400/10	14-H	S91H1M060 S91H1C151 S91H1U211 S91H1C152 S91H1U212	NRI N/A NRI N/A NRI	ONE-SIDED EXAM DUE TO CONFIGURATION.
B9.11 B-J ASME	A-21/04	1E11-1RHR-24A-R-4 PIPE TO PIPE	MT-H-500/05 UT-H-400/10	12-H	S91H1M065 S91H1C180 S91H1U243 S91H1C181 S91H1U244 S91H1U245 S91H1U246	NRI N/A RI N/A RI N/A N/A	ONE-SIDED EXAM DUE TO INTERFERENCE FROM DOWNSTREAM WELD.
B9.11 B-J ASME	A-21/04	1E11-1RHR-24A-R-6 ELBOW TO ELBOW	MT-H-500/05 UT-H-400/10	12-H	S91H1M076 S91H1C258 S91H1U352 S91H1U353	NRI N/A NRI N/A	EXAM LIMITATION DUE TO HANGER, 95% COVERAGE.
B9.11 B-J ASME	A-21/04	1E11-1RHR-24A-R-7 ELBOW TO ELBOW	MT-H-500/05 UT-H-400/10	12-H	S91H1M077 S91H1C259 S91H1U354 S91H1U355	NRI N/A NRI N/A	N/A
B9.11 B-J NUREG-0313C	A-21/04	1E11-1RHR-24A-R-12 VALVE TO PIPE DIS. METAL SHOP WELD	PT-H-600/03 UT-H-810/01	104-H	S91H1P014 S91H1U225 S91H1C215 S91H1U284 S91H1C214 S91H1U285 S91H1C216 S91H1U286	NRI N/A N/A NRI N/A NRI N/A NRI	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
B9.11 B-J NUREG-0313E	A-21/04	1E11-1RHR-24A-R-13 PIPE TO PIPE OVERLAY	UT-H-808/02	134-H	S91H1C195 S91H1U260	N/A NR1 UT CAL	N/A
B9.11 B-J NUREG-0313C	A-21/04	1E11-1RHR-24A-R-14 PIPE TO TEE	GE-U7-208/1	104-H	C-034 D-058 D-059 C-035 D-060	N/A NR1 NR1 N/A RI UT CAL UT CAL GEOMETRY	ONE-SIDED EXAM DUE TO TEE CONFIGURATION.
B9.11 B-J ASME	A-22/04	1E11-1RHR-24B-R-4 PIPE TO ELBOW	MT-H-500/05 UT-H-400/10	12-H	S91H1M063 S91H1C179 S91H1U241 S91H1U242	NR1 N/A RI N/A UT CAL GEOMETRY THICKNESS	N/A
B9.11 B-J ASME	A-22/04	1E11-1RHR-24B-R-6 ELBOW TO PIPE	MT-H-500/05 UT-H-400/10	12-H	S91H1M086 S91H1C273 S91H1U386 S91H1U383	NR1 N/A NR1 N/A UT CAL THICKNESS	N/A
B9.11 B-J ASME	A-22/04	1E11-1RHR-24B-R-7 PIPE TO ELBOW	MT-H-500/05 UT-H-400/10	12-H	S91H1M051 S91H1M090 S91H1C275 S91H1U391 S91H1U392	RI NR1 N/A NR1 N/A LINEAR IND. UT CAL THICKNESS	SEE INF # 191H1013.

E.T. WATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME	EXAM	FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>								
B9.11 B-J ASME	A-22/04	1E11-16HR-248-R-8	ELBOW TO PIPE	MT-H-500/05 UT-H-400/10	12-H	S91H1M055 S91H1C271 S91H1U328 S91H1C272 S91H1U385 S91H1U284	NR1 N/A UT CAL NR1 N/A UT CAL NR1 N/A THICKNESS	N/A
B9.11 B-J ASME	A-22/04	1E11-16HR-248-R-11	ELBOW TO VALVE	MT-H-500/05 UT-H-400/10	12-H	S91H1M053 S91H1C133 S91H1U193 S91H1C132 S91H1U192	NR1 N/A UT CAL NR1 N/A UT CAL RI GEOMETRY	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.
B9.11 B-J NUREG-0313E	A-22/04	1E11-16HR-248-R-12	VALVE TO PIPE OVERLAY	GE-UT-212/1	135-H	C-040 D-067 D-068	N/A UT CAL RI LINEAR IND. RI LINEAR IND.	SEE INF # 191H1024.
B9.11 B-J NUREG-0313E	A-22/04	1E11-16HR-248-R-13	PIPE TO PIPE OVERLAY	GE-UT-212/1	134-H	C-016 D-027 D-028 C-017 A-029 D-030	N/A UT CAL RI LINEAR IND. RI LINEAR IND. N/A UT CAL RI LINEAR IND. RI LINEAR IND.	SEE INF # 191H1021.
B9.11 B-J NUREG-0313C	A-22/04	1E11-16HR-248-R-14	PIPE TO TEE	GE-UT-208/1	104-H	C-031 D-054 D-055 C-032 D-056	N/A UT CAL NR1 NR1 N/A UT CAL RI GEOMETRY	ONE-SIDED EXAM DUE TO TEE CONFIGURATION.

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>CORE SPRAY SYSTEM</u>							
B5.130 B-F NUREG-03130	A-26/04	1E21-1CS-10A-18A PIPE TO SAFE-END EXTENSION	PT-H-600/03 UT-H-409/07	150-H 137-H	S91H1P001 S91H1C014 S91H1U041 S91H1C015 S91H1U042 S91H1C022 S91H1U049	NR1 N/A UT CAL NR1 N/A UT CAL NR1 N/A UT CAL NR1	EXAM LIMITATION DUE TO TAPER OF SAFE END. 44% COVERAGE.
B9.11 B-J NUREG-03130	A-26/04	1E21-1CS-10A-19A SAFE-END EXTENSION TO SAFE-END	PT-H-600/03 UT-H-400/10	85-H	S91H1P002 S91H1C023 S91H1U050	NR1 N/A UT CAL NR1	EXAM LIMITATION DUE TO SAFE END EXTENSION TAPER. 85% COVERAGE.
B5.10 B-F NUREG-03130	A-26/04	1E21-1CS-10A-20A SAFE-END TO NOZZLE	PT-H-600/03 UT-H-409/07	108-H 85-H	S91H1P003 S91H1C012 S91H1U039 S91H1C013 S91H1U040 S91H1C024 S91H1U051	NR1 N/A UT CAL NR1 N/A UT CAL NR1 N/A UT CAL NR1	N/A
<u>HIGH PRESSURE COOLANT INJECTION SYSTEM</u>							
B9.11 B-J ASME	A-29/05	1E41-1HPCI-14-R-3 PIPE TO ELBOW	MT-H-500/05 UT-H-400/10	43-H	S91H1M089 S91H1C274 S91H1U389 S91H1U390	NR1 N/A UT CAL NR1 N/A THICKNESS	N/A
B9.32 B-J ASME	A-29/05	1E41-1HPCI-14-R-118C PIPE TO BRANCH CONNECTION	MT-H-500/05	N/A	S91H1M019	NR1	N/A

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR WATER CLEAN-UP SYSTEM</u>							
B9.11	A-33/02	1G31-1RWCU-4-R-41	MT-H-500/05	122-H	S91H1M039	NRI	ONE SIDED EXAM DUE TO TEE CONFIGURATION.
B-J		PIPE TO TEE	UT-H-400/10		S91H1C049	N/A	
ASME					S91H1U087	NRI	
					S91H1C256	N/A	
					S91H1U032	NRI	
B9.11	A-32/04	1G31-1RWCU-6-D-*	UT-H-400/03	134-H	S91H1C175	N/A	N/A
B-J		B-C TO PIPE OVERLAY			S91H1U237	NRI	
B9.11	A-32/04	1G31-1RWCU-6-D-2	PT-H-600/03	133-H	S91H1P032	NRI	N/A
B-J		PIPE TO ELBOW	UT-H-400/10		S91H1C107	N/A	
NUREG-0313A					S91H1U158	NRI	
B9.12	A-32/04	1G31-1RWCU-6-D-2-LU	PT-H-600/03	133-H	S91H1P034	NRI	N/A
B-J		LONG SEAM WELD EXTENDING UPSTREAM	UT-H-400/10		S91H1C109	N/A	
NUREG-0313A					S91H1U160	NRI	
B9.12	A-32/04	1G31-1RWCU-6-D-2-IR	PT-H-600/03	133-H	S91H1P033	NRI	N/A
B-J		LONG SEAM WELD DOWNSTREAM ON INSIDE OF ELBOW	UT-H-400/10		S91H1C108	N/A	
NUREG-0313A					S91H1U159	NRI	
B9.12	A-32/04	1G31-1RWCU-6-D-2-OR	PT-H-600/03	133-H	S91H1P035	NRI	N/A
B-J		LONG SEAM WELD DOWNSTREAM ON OUTSIDE OF ELBOW	UT-H-400/10		S91H1C110	N/A	
NUREG-0313A					S91H1U161	NRI	

E.I. MATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
REACTOR WATER CLEAN-UP SYSTEM							
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-3 ELBOW TO PIPE	PT-H-600/03 UT-H-400/10	133-H	S91H1P036 S91H1C111 S91H1U162	NRI N/A NRI	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-3-LD LONG SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/03 UT-H-400/10	133-H	S91H1P037 S91H1C112 S91H1U163	NRI N/A NRI	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-4 PIPE TO VALVE	PT-H-600/03 UT-H-400/10	133-H	S91H1P041 S91H1C126 S91H1U180 S91H1C128 S91H1U182	NRI N/A NRI N/A NRI	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-4-LD LONG SEAM WELD EXTENDING UPSTREAM	PT-H-600/03 UT-H-400/10	133-H	S91H1P04P S91H1C127 S91H1U181	NRI N/A NRI	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-8 ELBOW TO PIPE	PT-H-600/03 UT-H-400/10	133-H	S91H1P038 S91H1C113 S91H1U164	NRI N/A NRI	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-8-LD LONG SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/03 UT-H-400/10	133-H	S91H1P039 S91H1C114 S91H1U165	NRI N/A NRI	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-9 PIPE TO ELBOW OVERLAY	UT-H-400/03	134-H	S91H1C176 S91H1U238	N/A NRI	N/A

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
REACTOR WATER CLEAN-UP SYSTEM							
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-11 PIPE TO ELBOW	PT-H-600/03 UT-H-400/10	133-H	S91H1P053 S91H1C144 S91H1U204	NRI N/A NRI	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-11-LD LONG SEAM WELD EXTENDING UPSTREAM	PT-H-600/03 UT-H-400/10	133-H	S91H1P052 S91H1C139 S91H1U199	NRI N/A NRI	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-11-1R LONG SEAM WELD DOWNSTREAM ON INSIDE OF ELBOW	PT-H-600/03 UT-H-400/10	133-H	S91H1P051 S91H1C137 S91H1U197	NRI N/A NRI	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-11-OR LONG SEAM WELD DOWNSTREAM ON OUTSIDE OF ELBOW	PT-H-600/03 UT-H-400/10	133-H	S91H1P051 S91H1C140 S91H1U200	NRI N/A NRI	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-12 ELBOW TO PIPE	PT-H-600/03 UT-H-400/10	133-H	S91H1P054 S91H1C145 S91H1U205	NRI N/A NRI	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-12-LD LONG SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/03 UT-H-400/10	133-H	S91H1P049 S91H1C138 S91H1U198	NRI N/A NRI	EXAM LIMITATION DUE TO WELDED SUPPORT. 97% COVERAGE.
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWJUM-6-D-13 PIPE TO ELBOW	PT-H-600/03 UT-H-400/10	133-H	S91H1P055 S91H1C146 S91H1U206	NRI N/A NRI	N/A



E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR WATER CLEAN-UP SYSTEM</u>							
B9.12 B-J NUREG-0313A	A-32/04	1G31-1PWJUM-6-D-13-LU LONG SEAM WELD EXTENDING UPSTREAM	PT-H-600/03 UT-H-400/10	133-H	S91H1P048 S91H1C142 S91H1U202	NR1 N/A NR1	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1PWJUM-6-D-13-IR LONG SEAM WELD DOWNSTREAM ON INSIDE OF ELBOW	PT-H-600/03 UT-H-400/10	133-H	S91H1P046 S91H1C141 S91H1U201	NR1 N/A NR1	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1PWJUM-6-D-13-OR LONG SEAM WELD DOWNSTREAM ON OUTSIDE OF ELBOW	PT-H-600/03 UT-H-400/10	133-H	S91H1P047 S91H1C143 S91H1U203	NR1 N/A NR1	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1PWJUM-6-D-16 ELBOW TO VALVE	PT-H-600/03 UT-H-400/10	133-H	S91H1P056 S91H1C147 S91H1U207 S91H1C242 S91H1U320	NR1 N/A NR1 N/A R1	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.
B9.11 B-J NUREG-0313A	A-32/04	1G31-1PWJUM-6-D-16 PENETRATION TO PIPE	UT-H-400/10	133-H	S91H1C058 S91H1U100 S91H1C079 S91H1U127	N/A NR1 N/A NR1	ONE-SIDED EXAM DUE TO PENETRATION CONFIGURATION.
B9.12 B-J NUREG-0313A	A-32/04	1G31-1PWJUM-6-D-16-LD LONG SEAM WELD EXTENDING DOWNSTREAM	UT-H-400/10	133-H	S91H1C059 S91H1U101	N/A NR1	N/A

E.I. WATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR WATER CLEAN-UP SYSTEM</u>							
B9.11 B-J NUREG-0313A	A-32/04	1631-1PWJUM-6-D-17 PIPE TO ELBOW	UT-H-400/10	133-H	S91H1C060 S91H1U102	N/A NRI	N/A
B9.12 B-J NUREG-0313A	A-32/04	1631-1PWJUM-6-D-17-LU LONG SEAM WELD EXTENDING UPSTREAM	UT-H-400/10	133-H	S91H1C061 S91H1U103	N/A NRI	N/A
B9.12 B-J NUREG-0313A	A-32/04	1631-1PWJUM-6-D-17-IR LONG SEAM WELD DOWNSTREAM ON INSIDE OF ELBOW	UT-H-400/10	133-H	S91H1C062 S91H1U104	N/A NRI	N/A
B9.12 B-J NUREG-0313A	A-32/04	1631-1PWJUM-6-D-17-OR LONG SEAM WELD DOWNSTREAM ON OUTSIDE OF ELBOW	UT-H-400/10	133-H	S91H1C063 S91H1U105	N/A NRI	N/A
B9.11 B-J NUREG-0313A	A-32/04	1631-1PWJUM-6-D-18 ELBOW TO PIPE	UT-H-400/10	133-H	S91H1C064 S91H1U106	N/A NRI	N/A
B9.12 B-J NUREG-0313A	A-32/04	1631-1PWJUM-6-D-18-LD LONG SEAM WELD EXTENDING DOWNSTREAM	UT-H-400/10	133-H	S91H1C065 S91H1U107	N/A NRI	N/A
B9.11 B-J NUREG-0313A	A-32/04	1631-1PWJUM-6-D-19 PIPE TO ELBOW	UT-H-400/10	133-H	S91H1C066 S91H1U108	N/A NRI	N/A

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR WATER CLEAN-UP SYSTEM</u>							
B9.12 B-J NUREG-0313A	A-32/04	1G31-1PWQUM-6-D-19-LU LONG SEAM WELD EXTENDING UPSTREAM	UT-H-400/10	133-H	S91W1C067 S91W1U109	N/A NRI	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1PWQUM-6-D-19-IR LONG SEAM WELD DOWNSTREAM ON INSIDE OF ELBOW	UT-H-400/10	133-H	S91W1C068 S91W1U110	N/A NRI	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1PWQUM-6-D-19-OR LONG SEAM WELD DOWNSTREAM ON OUTSIDE OF ELBOW	UT-H-400/10	133-H	S91W1C069 S91W1U111	N/A NRI	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1PWQUM-6-D-20 ELBOW TO VALVE	UT-H-400/10	133-H	S91W1C070 S91W1U112 S91W1C080 S91W1U128	N/A NRI N/A NRI	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.
<u>VALVE BODIES</u>							
B12.50 B-M-2 ASME	A-8/07	B21-F010A BODY VALVE BODIES	450C-1NS- 011-05/01	N/A	N/A	SAT	EXAMINED BY GPC QC. DISASSEMBLED DUE TO LLRT FAILURE. EXAMINED 1987 OUTAGE.
B12.50 B-M-2 ASME	A-7/05	B21-F013H BODY VALVE BODIES	450C-1NS- 011-05/01	N/A	N/A	SAT	EXAMINED BY GPC QC. THIS SRV BODY WAS REMOVED AND SHIPPED TO WYLE LABS FOR INSPECTION.

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>VALVE BODIES</u>							
B12.50 B-M-2 ASME	A-6A/01	B21-F022C BODY VALVE BODIES	450C-1NS- 011-05/01	N/A	N/A	SAT MM0 1-01-5389	EXAMINED BY GPC QC. DISASSEMBLED DUE TO LLRT FAILURE. EXAMINED 1990 OUTAGE.
B12.50 B-M-2 ASME	A-28/04	E41-F002 BODY VALVE BODIES	450C-1NS- 011-05/01	N/A	N/A	SAT MM0 1-01-5605	EXAMINED BY GPC QC. DISASSEMBLED DUE TO LLRT FAILURE. EXAMINED 1990 OUTAGE.
<u>VALVE BOLTING</u>							
B7.70 B-G-2 ASME	A-21/04	E11-F017A BOLTING VALVE BOLTING	VT-H-710/02	N/A	S91H1V140	SAT	N/A
B7.70 B-G-2 ASME	A-22/04	E11-F017B BOLTING VALVE BOLTING	VT-H-710/02	N/A	S91H1V097	SAT	N/A
B7.70 B-G-2 ASME	A-24/04	E11-F023 BOLTING VALVE BOLTING	VT-H-710/02	N/A	S91H1V104	SAT	N/A
B7.70 B-G-2 ASME	A-21/04	E11-F050A BOLTING VALVE BOLTING	VT-H-710/02	N/A	S91H1V181	SAT	N/A
B7.70 B-G-2 ASME	A-22/04	E11-F050B BOLTING VALVE BOLTING	VT-H-710/02	N/A	S91H1V163	SAT	N/A

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>VALVE BOLTING</u>							
B7.70 B-G-2 ASME	A-21/04	E11-F060A BOLTING VALVE BOLTING	VT-H-710/02	N/A	S91H1V212	SAT	N/A
B7.70 B-G-2 ASME	A-22/04	E11-F060B BOLTING VALVE BOLTING	VT-H-710/02	N/A	S91H1V162	SAT	N/A
B7.70 B-G-2 ASME	A-23/03	E11-F067 BOLTING VALVE BOLTING	VT-H-710/02	N/A	S91H1V191	SAT	N/A
B7.70 B-G-2 ASME	A-33/02	G31-F039 BOLTING VALVE BOLTING	VT-H-710/02	N/A	S91H1V141	SAT	N/A

SUMMARY  
OF  
CLASS 2 EXAMINATIONS

E.J. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
C1.20 C-A ASME	B-32/03	1E11-2HX-A-1 SHELL HEAD TO UPPER SHELL RING	UT-H-400/10 MT-H-500/05	72-H 73-H	S91H1M071 S91H1C039 S91H1U069 S91H1C038 S91H1U068 S91H1C040 S91H1U070	NR1 N/A NR1 N/A RI N/A RI	EXAM LIMITATION DUE TO VESSEL SUPPORT BRACKETS. 90% COVERAGE.
C3.10 C-C ASME	B-32/03	1E11-2HX-A-LSC-1 LOWER SUPPORT BRACKET	MT-H-500/05	N/A	S91H1M082 S91H1M087	RI NR1	LINEAR INDICATIONS REMOVED BY FLAPPING.
C3.10 C-C ASME	B-32/03	1E11-2HX-A-USC-1 UPPER SUPPORT BRACKET	MT-H-500/05	N/A	S91H1M084 S91H1M092	RI N/A	CODE ALLOWABLE LINEAR INDICATION.
C3.10 C-C ASME	B-32/03	1E11-2HX-A-USC-2 UPPER SUPPORT BRACKET	MT-H-500/05	N/A	S91H1M020 S91H1M021 S91H1M052 S91H1U034	RI RI NR1 N/A	SEE INF # 191H1005. LINEAR IND. LINEAR IND. THICKNESS
C3.10 C-C ASME	B-32/03	1E11-2HX-A-USC-3 UPPER SUPPORT BRACKET	MT-H-500/05	N/A	S91H1M047 S91H1M050 S91H1M091	RI RI NR1	SEE INF # 191H1014. LINEAR IND. LINEAR IND.
C3.10 C-C ASME	B-32/03	1E11-2HX-A-USC-4 UPPER SUPPORT BRACKET	MT-H-500/05	N/A	S91H1M022	NR1	N/A



E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
C3.10 C-C ASME	B-32/03	1E11-2HX-B-LSC-1 LOWER SUPPORT BRACKET	MT-H-500/05	N/A	S91H1M060	NR1	N/A
C2.21 C-S ASME	B-32/03	1E11-2HX-B-O RHR HX SHELL TO OUTLET NOZZLE	MT-H-500/05 UT-H-400/10	72-R	S91H1M069 S91H1C207 S91H1U276 S91H1C208 S91H1U278 S91H1C209 S91H1U279 S91H1U277	NR1 N/A NR1 N/A R1 N/A R1 N/A N/A	ONE-SIDED EXAM DUE TO NOZZLE CONFIGURATION.
C3.10 C-C ASME	B-32/03	1E11-2HX-B-USC-1 UPPER SUPPORT BRACKET	MT-H-500/05	N/A	S91H1M072 S91H1M075	R1 NR1	LINEAR INDICATION REMOVED BY FLAPPING.
C3.10 C-C ASME	B-32/03	1E11-2HX-B-USC-2 UPPER SUPPORT BRACKET	MT-H-500/05	N/A	S91H1M083	NR1	N/A
C3.10 C-C ASME	B-32/03	1E11-2HX-B-USC-3 UPPER SUPPORT BRACKET	MT-H-500/05	N/A	S91H1M074	NR1	N/A
C3.10 C-C ASME	B-32/03	1E11-2HX-B-USC-4 UPPER SUPPORT BRACKET	MT-H-500/05	N/A	S91H1M073	NR1	N/A

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
C5.11 C-F ASME	B-57/04	1E11-2RHR-14B-SS-4 PIPE TO REDUCER	MT-H-500/05	N/A	S91H1M004	NR1	N/A
C5.11 C-F ASME	B-62/04	1E11-2RHR-16B-DS-11 ELBOW TO VALVE	MT-H-500/05	N/A	S91H1M038	NR1	N/A
C5.11 C-F ASME	B-55/05	1E11-2RHR-16B-HX1-6 VALVE TO PIPE	MT-H-500/05	N/A	S91H1M012	NR1	N/A
C5.11 C-F ASME	B-61/04	1E11-2RHR-16B-SH-16 PIPE TO TEE	MT-H-500/05	N/A	S91H1M006	NR1	N/A
C5.11 C-F ASME	B-33/04	1E11-2RHR-20-RS-12 PIPE TO ELBOW	MT-H-500/05	N/A	S91H1M092	NR1	N/A
C5.11 C-F ASME	B-33/04	1E11-2RHR-20-RS-16 PIPE TO ELBOW	MT-H-500/05	N/A	S91H1M054 S91H1M062	R1 NR1	LINEAR IND. FLAPPING.
C5.11 C-F ASME	B-33/04	1E11-2RHR-20-RS-7 ELBOW TO PIPE	MT-H-500/05	N/A	S91H1M055 S91H1M061	R1 NR1	LINEAR IND. FLAPPING.

E.I. MATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
C5.11 C-F ASME	B-34/03	1E11-2RHR-20A-D-5 TEE TO PIPE	MT-H-500/05	N/A	S91H1M079	NRI	N/A
C5.11 C-F ASME	B-34/03	1E11-2RHR-20A-D-4 PIPE TO TEE	MT-H-500/05	N/A	S91H1M064 S91H1M081	RI NRI	LINEAR IND. SEE INF # 191H1012.
C5.11 C-F ASME	B-41/05	1E11-2RHR-20B-D-4 PIPE TO TEE	MT-H-500/05	N/A	S91H1M088	NRI	N/A
C5.11 C-F ASME	B-58/04	1E11-2RHR-20B-HXO-2 ELBOW TO PIPE	MT-H-500/05	N/A	S91H1M018	NRI	N/A
C5.11 C-F ASME	B-53/04	1E11-2RHR-20B-PD-0-10 ELBOW TO PIPE	MT-H-500/05	N/A	S91H1M013 S91H1M011	RI NRI	LINEAR IND. LINEAR INDICATIONS REMOVED BY FLAPPING.
C5.11 C-F ASME	B-37/03	1E11-2RHR-20C-D-7 ELBOW TO PIPE	MT-H-500/05	N/A	S91H1M070 S91H1M178	RI NRI	LINEAR IND. LINEAR INDICATION REMOVED BY FLAPPING.
C5.21 C-F ASME	B-36/04	1E11-2RHR-24A-TS-A-15 PIPE TO ELBOW	MT-H-500/05 UT-H-400/10	139-H	S91H1M014 S91H1M009 S91H1C001 S91H1U023 S91H1U024	RI NRI N/A RI N/A	LINEAR IND. MT INDICATIONS REMOVED BY FLAPPING. UT CAL GEOMETRY THICKNESS

E.1. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
C5.21 C-F ASME	B-56/05	1E11-2RHR-24B-BP-6 PIPE TO TEE	MT-H-500/05 UT-H-400/10	139-H	S91H1M068 S91H1C217 S91H1U287 S91H1C218 S91H1U288 S91H1U289	NR1 N/A UT CAL NR1 N/A UT CAL RI GEOMETRY N/A THICKNESS	ONE-SIDED EXAM DUE TO TEE CONFIGURATION.
C5.21 C-F ASME	B-55/05	1E11-2RHR-24B-HX1-4 TEE TO REDUCER	MT-H-500/05 UT-H-400/10	139-H	S91H1M010 S91H1C002 S91H1U027 S91H1C003 S91H1U028 S91H1U029	NR1 N/A UT CAL RI GEOMETRY N/A UT CAL RI GEOMETRY N/A THICKNESS	ONE-SIDED EXAM DUE TO TEE CONFIGURATION.
-- -- AUGMENTED	B-70A/03	1E11-2RHR-4-HS-6 PIPE TO ELBOW	MT-H-500/05	N/A	S91H1M037	NR1	N/A
-- -- AUGMENTED	B-45/04	1E11-2RHR-4A-PD-C-1 PIPE TO VALVE	MT-H-500/05	N/A	S91H1M033	NR1	N/A
-- -- AUGMENTED	B-68/03	1E11-2RHR-4A-SS-2 ELBOW TO PIPE	MT-H-500/05	N/A	S91H1M616	NR1	N/A
C5.11 C-F ASME	B-71/04	1E11-2RHR-6-FPD-1 TEE TO VALVE	PT-H-600/03	N/A	S91H1P011	NR1	N/A

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME	SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>								
C5.11 C-C ASME		B-69/04	1E11-2RHR-6A-RVD-18 PIPE TO REDUCER	MT-H-500/05	N/A	S91H1M008	NRI	N/A
C5.11 C-F ASME		B-73/05	1E11-2RHR-6B-RVD-8 ELBOW TO PIPE	MT-H-500/05	N/A	S91H1M005	NRI	N/A
C5.11 C-F ASME		B-71/04	1E11-2RHR-8-FFD-1 TEE TO ELBOW	MT-H-500/05	N/A	S91H1M041	NRI	N/A
C5.11 C-F ASME		B-72/05	1E11-2RHR-8-FFS-20 ELBOW TO PIPE	MT-H-500/05	N/A	S91H1M017 S91H1M032	RI NRI	LINEAR INDICATION REMOVED BY FLAPPING.
-- -- AUGMENTED		B-3A/00	1E21-2CS-3A-1 BRANCH CONNECTION TO ELBOW	MT-H-500/05	N/A	S91H1M001	NRI	N/A
<u>HIGH PRESSURE COOLANT INJECTION SYSTEM</u>								
-- -- AUGMENTED		B-13/04	1E41-2HPCI-16-TS-6 PIPE TO ELBOW	MT-H-500/05	N/A	S91H1M007	NRI	N/A
-- -- AUGMENTED		B-98/00	1E41-2HPCI-2-CWS-12 PIPE TO ELBOW	MT-H-500/05	N/A	S91H1M002	NRI	N/A

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>HIGH PRESSURE COOLANT INJECTION SYSTEM</u>							
--	B-10A/00	1E41-2RHC1-4-MFL-5 ELBOW TO PIPE	MT-H-500/05	N/A	S91H1M003	NRI	N/A
--							
AUGMENTED							
<u>REACTOR CORE ISOLATION COOLING SYSTEM</u>							
--	B-99/00	1E51-2RC1C-4-D-15 ELBOW TO PIPE	MT-H-500/05	N/A	S91H1M067	NRI	EXAM LIMITATION DUE TO PIPE INTERFERENCE, 80% COVERAGE.
--							
AUGMENTED							
--	B-96/00	1E51-2RC1C-4-SS-17 PIPE TO ELBOW	MT-H-500/05	N/A	S91H1M040	N	N/A
--							
AUGMENTED							
--	B-88A/00	1E51-2RC1C-6-CST-14 ELBOW TO PIPE	PT-H-600/03	N/A	S91H1P042	N	N/A
--							
AUGMENTED							
--	B-83/05	1E51-2RC1C-6-TS-4 VALVE TO PIPE	MT-H-500/05	N/A	S91H1M059	NRI	N/A
--							
AUGMENTED							
<u>REACTOR WATER CLEAN-UP SYSTEM</u>							
--	B-83/06	1G31-2RWCU-4-R-3A TEE TO PIPE	UT-H-400/10	142-H	S91H1C077 S91H1U119 S91H1C078 S91H1U121 S91H1U123	N/A RI N/A RI N/A	UT CAL GEOMETRY UT CAL GEOMETRY THICKNESS
--							ONE-SIDED EXAM DUE TO TEE CONFIGURATION.
NUREG-0619							

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR WATER CLEAN-UP SYSTEM</u>							
--	B-83/06	1631-2RNDU-4-R-4C PIPE TO PIPE	UT-H-400/10	142-H	S91H1C076 S91H1U120 S91H1U122	N/A RI N/A	N/A
--	NUREG-0619						
<u>MAIN STEAM AUXILIARY SYSTEM</u>							
C3.20	B-77/05	1N11-2MSA-240-11PS-1 THRU 4 DEVICE N11-MSH-15	MT-H-500/05	N/A	S91H1M015	NI	EXAM LIMITATION DUE TO HANGER INTERFERENCE, 98% COVERAGE.
C-C							
ASME							

SUMMARY  
OF  
CLASS 1, 2, AND 3 PRESSURE TESTS



## PRESSURE TESTING

### GENERAL

This section of the report provides a discussion of the pressure tests which were performed during the 1991 Plant E.I. Hatch Unit 1 Fall Refueling Outage. These pressure tests were performed for the purpose of inservice inspection on Class 1, 2, and 3 components. The pressure tests and their boundaries are identified in the Inservice Inspection Plan documents prepared by Southern Nuclear Operating Company.

All pressure tests were performed in accordance with ASME Section XI, 1980 Edition with Addenda through Winter 1981. All tests were witnessed and/or reviewed by the resident ANII. The completed test reports are available for review in the Records Management Department at Plant E.I. Hatch.

### CLASS 1 PRESSURE TESTS

One (1) Class 1 Leakage Test was performed during the outage per ASME Section XI, paragraph IWA-5211(a). The test was performed per GPC procedure 42IT-TET-006-1S, ISI Pressure Test of the Class 1 System.

One (1) Class 1 Hydrostatic Pressure Test was performed during the outage per ASME Section XI, paragraph IWA-5211(d). The test was performed in accordance with GPC procedure 42IT-TET-003-OS, Hydrostatic Pressure Testing of Piping and Components.

### TEST RESULTS

Only minor leakage at mechanical joints was found during the VT-2 examinations. Any component which was disassembled prior to startup or to repair leakage, was re-examined during startup at normal operating pressure (1005 psig) per GPC procedure 42IT-TET-004-OS, Operating Pressure Testing of Piping and Components.

### CLASS 1 PRESSURE TEST SUMMARY

<u>TEST I.D.</u>	<u>PROCEDURE</u>	<u>MWO NUMBER</u>
1B21-LT-1	42IT-TET-006-1S	1-91-3191
1C41-HT-2	42IT-TET-003-OS	1-91-3192

### CLASS 2 PRESSURE TESTS

Two (2) Class 2 Hydrostatic Pressure Tests were performed during the outage per ASME Section XI paragraph IWA-5211(d). The tests were performed in accordance with GPC procedure 42IT-TET-003-OS, Hydrostatic Pressure Testing of Piping and Components.

Three (3) Class 2 Functional Tests were performed per ASME Section XI paragraph IWA-5211(b). The tests were performed in accordance with GPC procedure 42IT-TET-004-OS, Operating Pressure Testing of Piping and Components.

### TEST RESULTS

Only minor leakage at mechanical joints was reported during the VT-2 examination and all results were determined to be acceptable or was repaired.

## CLASS 2 SUMMARY

<u>TEST I.D.</u>	<u>PROCEDURE</u>	<u>MWO NUMBER</u>
1E11-HT-1	42IT-TET-003-OS	1-91-3193
1E11-HT-11	42IT-TET-003-OS	1-91-3194
1E21-FT-1	42IT-TET-004-OS	None Required
1E41-FT-1	42IT-TET-004-OS	None Required
1E51-FT-1	42IT-TET-004-OS	None Required

## CLASS 3 PRESSURE TESTS

Two (2) Class 3 Hydrostatic Pressure Tests were performed during the outage per ASME Section XI, paragraph IWA-5211(d). The tests were performed in accordance with GPC procedure 42IT-TET-003-OS, Hydrostatic Pressure Testing of Piping and Components.

Three (3) Class 3 Inservice Tests were performed during this outage per ASME Section XI, paragraph IWA-5211(c). The tests were performed in accordance with GPC procedure 42IT-TET-004-OS, Operating Pressure Testing of Piping and Components.

## TEST RESULTS

Only minor mechanical leakage was reported during the VT-2 examinations except during test 1P41-HT-6B, one (1) thru-wall leak was reported on a reducing bushing. MWO 1-91-5655 replaced the weld and an operating pressure test was performed to demonstrate pressure boundary integrity.

## CLASS 3 PRESSURE TEST SUMMARY

<u>TEST I.D.</u>	<u>PROCEDURE</u>	<u>MWO NUMBER</u>
1P41-HT-6A	42IT-TET-003-OS	1-91-3644
1P41-HT-6B	42IT-TET-003-OS	1-91-3645
1E11-IT-1	42IT-TET-004-OS	None Required
1G41-IT-1	42IT-TET-004-OS	None Required
1P41-IT-1	42IT-TET-004-OS	None Required

SUMMARY OF VISUAL EXAMINATIONS

CLASS 1, 2, AND 3

COMPONENT SUPPORTS

## COMPONENT SUPPORT EXAMINATIONS

This section of the report provides a discussion of the visual examinations performed on selected component supports on Hatch Unit 1. The subject examinations were performed prior to and during the Refueling/Maintenance Outage. Examinations were performed using SNC Procedure VT-H-730 (VT-3 and VT-4). The procedure and all examination data sheets are available for review at the plant site.

### Examinations

#### Class 1

Twenty-eight (28) component supports from the B21, B31, E11, and G31 systems were visually examined. Three (3) unacceptable indications were detected.

#### Class 2

Ninety-four (94) component supports from the C11, E11, E41, E51, and N11, systems were visually examined. Ten (10) of these Class 2 component supports were found unacceptable.

#### Class 3

Twenty-seven (27) component supports from the P41 system were visually examined. Four (4) of these Class 3 component supports were found to be unacceptable.

After maintenance and/or engineering evaluation, all of the unacceptable component supports were dispositioned per ASME Section XI and subsequently found to be acceptable. Where maintenance was involved, the component supports were re-examined to confirm acceptability.

## 1991 E.I. HATCH UNIT 1 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
1	1B21-TORSION&LATERAL	H-16807	SIMPLE	A	S91H1V229	N/A				
1	1B21-SS36	A-7/05	HYDRAULIC SNUBBER	A	S91H1V105	N/A				
1	1B21-SS37	A-7/05	HYDRAULIC SNUBBER	A	S91H1V107	N/A				
1	1B21-FDH-8	A-8/07	SPRING	A	S91H1V189	N/A				
1	1B21-FDH-10	A-8/07	RESTRAINT	U	S91H1V190	191H1019	1-91-6468	A	S91H1V238	BENT PADDLE, SLIPPED BEARING
1	1B21-FDH-12	A-8/07	HYDRAULIC SNUBBER	A	S91H1V213	N/A				
1	1B21-FDH-9	A-9/06	RESTRAINT	A	S91H1V106	N/A				
1	1B21-FDH-11	A-9/06	HYDRAULIC SNUBBER	A	S91H1V077	N/A				
1	1B21-FDH-1	A-11/04	SPRING	A	S91H1V187	N/A				
1	1B21-FDH-2	A-11/04	SPRING	A	S91H1V188	N/A				
1	1B21-FDH-13	A-11/04	MECH SNUBBER	A	S91H1V119	N/A				
1	1B21-FDH-13	A-11/04	MECH SNUBBER	A	S91H1V186	N/A				
1	1B21-FDH-19	A-11/04	HYDRAULIC SNUBBER	A	S91H1V120	N/A				
1	1B21-FDH-5	A-12/04	SPRING	U	S91H1V182	191H1019	N/A			BROKEN TACK WELDS ACCEPTABLE AS IS PER GPC ENGINEERING.
1	1B21-FDH-14	A-12/04	MECH SNUBBER	A	S91H1V118	N/A				
1	1B21-FDH-14	A-12/04	MECH SNUBBER	A	S91H1V185	N/A				
1	1B21-FDH-17	A-12/04	HYDRAULIC SNUBBER	A	S91H1V117	N/A				
1	1B21-FDH-17	A-12/04	HYDRAULIC SNUBBER	A	S91H1V184	N/A				
1	1B21-FDH-18	A-12/04	HYDRAULIC SNUBBER	A	S91H1V116	N/A				
1	1B21-FDH-18	A-12/04	HYDRAULIC SNUBBER	A	S91H1V183	N/A				

## 1991 E.I. HATCH UNIT 1 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPAIR NO.	REMARKS
1	1B21-FDH-20	A-12/04	MECH SNUBBER	A	S91H1V115	N/A				
1	1B31-SSA7	A-14/04	MECH SNUBBER	A	S91H1V114	N/A				
1	1B31-SSA13	A-14B/01	HYDRAULIC SNUBBER	A	S91H1V124	N/A				
1	1B31-SSB7	A-15/04	HYDRAULIC SNUBBER	A	S91H1V123	N/A				
1	1B31-SSB12	A-15B/01	HYDRAULIC SNUBBER	A	S91H1V122	N/A				
1	1B31-SSB13	A-15B/01	HYDRAULIC SNUBBER	A	S91H1V121	N/A				
1	1B31-SSB14	A-15B/01	HYDRAULIC SNUBBER	A	S91H1V149	N/A				
1	1E11-SM-1	A-22/04	HYDRAULIC SNUBBER	U	S91H1V148	191H1016	N/A			PADDLE IS BOUND. ACCEPTABLE AS IS PER GPC ENGINEERING.
1	1E11-SM-1	A-22/04	HYDRAULIC SNUBBER	A	S91H1V180	N/A				
1	1E11-SM-2	A-22/04	HYDRAULIC SNUBBER	A	S91H1V147	N/A				
1	1E11-UI	A-22/04	ANCHOR	A	S91H1V094	N/A				
1	1G31-RWCUH-2	A-32/04	RESTRAINT	A	S91H1V102	N/A				
1	1G31-RWCUH-3	A-32/04	SPRING	A	S91H1V103	N/A				
2	1E41-HPSEH-29	B-18/04	SIMPLE	A	S91H1V135	N/A				
2	1E41-HPSEH-30	B-18/04	SIMPLE	A	S91H1V054	N/A				
2	1E11-RHRH-311	B-34/03	SIMPLE	A	S91H1V233	N/A				
2	1E11-RHRH-312	B-34/03	MECH SNUBBER	A	S91H1V074	N/A				
2	1E11-RHRH-313	B-34/03	MECH SNUBBER	A	S91H1V073	N/A				
2	1E11-RHRH-317	B-34/03	SIMPLE	A	S91H1V232	N/A				
2	1E11-RHRH-350	B-34/03	SIMPLE	A	S91H1V231	N/A				

## 1991 E.I. HATCH UNIT 1 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	1E11-RHRH-22	B-35/03	SPRING	A	S91H1V035	N/A				
2	1E11-RHRH-314	B-37/03	SIMPLE	A	S91H1V034	N/A				
2	1E11-RHRH-315	B-37/03	SIMPLE	A	S91H1V165	N/A				
2	1E11-RHRH-354	B-38A/01	SIMPLE	A	S91H1V039	N/A				
2	1E11-RHRH-197	B-40/03	SIMPLE	A	S91H1V057	N/A				
2	1E11-RHRH-198	B-40/03	SIMPLE	A	S91H1V056	N/A				
2	1E11-RHRH-199	B-40/03	MECH SNUBBER	A	S91H1V055	N/A				
2	1E11-RHRH-713	B-42/04	MECH SNUBBER	A	S91H1V024	N/A				
2	1E11-RHRH-38	B-45/04	SIMPLE	A	S91H1V083	N/A				
2	1E11-RHRH-231	B-45/04	MECH SNUBBER	A	S91H1V038	N/A				
2	1E11-RHRI-232	B-45/04	HYDRAULIC SNUBBER	A	S91H1V075	N/A				
2	1E11-RHRH-367	B-45A/01	SIMPLE	A	S91H1V008	N/A				
2	1E11-RHRP-60	B-48/05	SIMPLE	U	S91H1V021	191H1002	1-91-5457	A	S91H1V145	SLIPPED BEARING DISPLACED BEARING RACE
2	1E11-RHRH-61	B-48/05	SIMPLE	A	S91H1V022	N/A				
2	1E11-RHRH-62	B-48/05	SIMPLE	A	S91H1V023	N/A				
2	1E11-RHRH-63	B-48/05	SIMPLE	A	S91H1V052	N/A				
2	1E11-RHRH-64	B-48/05	SIMPLE	A	S91H1V053	N/A				
2	1E11-RHR-H179	B-49A/00	SIMPLE	A	S91H1V069	N/A				
2	1E11-RHR-H180	B-49A/00	SIMPLE	A	S91H1V078	N/A				
2	1E11-RHRH-81	B-51/04	SIMPLE	A	S91H1V015	N/A				



## 1991 E.I. HATCH UNIT 1 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWD NO.	RESULTS	REPORT NO.	REMARKS
2	1E11-RHRH-83	B-51/04	SIMPLE	A	S91H1V014	N/A				
2	1E11-RHRH-247	B-51/04	SIMPLE	A	S91H1V016	N/A				
2	1E11-RHRH-248	B-51/04	SIMPLE	A	S91H1V082	N/A				
2	1E11-RHRH-239	B-52/04	HYDRAULIC SNUBBER	A	S91H1V076	N/A				
2	1E11-RHRH-211	B-54/03	MECH SNUBBER	A	S91H1V028	N/A				
2	1E11-RHRH-34	B-58/04	MECH SNUBBER	A	S91H1V059	N/A				
2	1E11-RHRH-35	B-58/04	SIMPLE	A	S91H1V060	N/A				
2	1E11-RHRH-36	B-58/04	SIMPLE	A	S91H1V058	N/A				
2	1E11-RHRH-218	B-58/04	HYDRAULIC SNUBBER	A	S91H1V125	N/A				
2	1E11-RHRH-261	B-59/03	SIMPLE	A	S91H1V086	N/A				
2	1E11-RHRH-178	B-59/03	SIMPLE	A	S91H1V084	N/A				
2	1E11-RHRH-391	B-59/03	SIMPLE	A	S91H1V009	N/A				
2	1E11-RHRH-66	B-61/04	SIMPLE	A	S91H1V037	N/A				
2	1E11-RHRH-67	B-61/04	SIMPLE	A	S91H1V051	N/A				
2	1E11-RHRH-68	B-61/04	SIMPLE	A	S91H1V050	N/A				
2	1E11-RHRH-69	B-61/04	SIMPLE	A	S91H1V049	N/A				
2	1E11-RHRH-71	B-61/04	SIMPLE	A	S91H1V001	N/A				
2	1E11-RHRH-73	B-65/03	SIMPLE	A	S91H1V048	N/A				
2	1E11-RHRH-74	B-65/03	SIMPLE	A	S91H1V047	N/A				
2	1E41-HPSEN-37	B-67/04	SPRING	A	S91H1V071	N/A				
2	1E41-HPSEN-38	B-67/04	SIMPLE	A	S91H1V134	N/A				



## 1991 E.I. HATCH UNIT 1 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	1E41-HPSEH-39	B-67/04	SIMPLE	A	S91H1V133	N/A				
2	1E41-HPSEH-41	B-67/04	SIMPLE	A	S91H1V132	N/A				
2	1E41-HPSEH-63	B-67/04	HYDRAULIC SNUBBER	A	S91H1V072	N/A				
2	1E41-HPSEH-63	B-67/04	HYDRAULIC SNUBBER	A	S91H1V131	N/A				
2	1E41-HPSEH-64	B-67/04	SIMPLE	A	S91H1V046	N/A				
2	1E11-RHRH-261	B-70A/00	SIMPLE	A	S91H1V101	N/A				
2	1E11-RHRH-208	B-72/05	SIMPLE	A	S91H1V144	N/A				
2	1E11-RHRH-318	B-72/05	SIMPLE	A	S91H1V089	N/A				
2	1E11-RHRH-407	B-72/05	SIMPLE	U	S91H1V091	191H1008	1-91-6129	A	N/A	SLIPPED BEARING RE-EXAM BY GPC QC
2	1E11-RHRH-407A	B-72/05	SIMPLE	U	S91H1V090	191H1008	1-91-6129	A	N/A	SLIPPED BEARING RE-EXAM BY GPC QC
2	1E11-RHRH-409	B-72/05	ANCHOR	A	S91H1V064	N/A				
2	1E41-HPSEH-78	B-73/05	SPRING	U	S91H1V004	191H1003	1-91-5458	A	S91H1V088	IMPROPER SPRING CAN SETTING
2	1E41-HPSEH-724	B-73/05	MECH SNUBBER	A	S91H1V002	N/A				
2	1E41-HPSEH-735	B-73/05	MECH SNUBBER	A	S91H1V003	N/A				
2	1N11-MSH-38	B-74/05	HYDRAULIC SNUBBER	A	S91H1V068	N/A				
2	1N11-MSH-22	B-74/05	SIMPLE	A	S91H1V066	N/A				
2	1N11-MSH-23	B-74/05	HYDRAULIC SNUBBER	A	S91H1V065	N/A				
2	1N11-MSH-25	B-74/05	SIMPLE	A	S91H1V067	N/A				
2	1C11-SK2-H17	B-84/02	SIMPLE	A	S91H1V193	N/A				
2	1C11-SK2-H18	B-84/02	SIMPLE	A	S91H1V220	N/A				

## 1991 E.I. MATCH UNIT 1 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULT	REPORT NO.	REMARKS
2	1C11-SK2-H20	B-84/02	SIMPLE	A	S91H1V219	N/A				
2	1C11-SK2-H22	B-84/02	SIMPLE	A	S91H1V218	N/A				
2	1C11-SK2-H23	B-84/02	SIMPLE	A	S91H1V217	N/A				
2	1C11-SK2-H24	B-84/02	SIMPLE	U	S91H1V224	191H1023	1-91-6570	A	S91H1V235	NO LOAD ON SUPPORT. CLEVIS NOT ALIGNED.
2	1C11-SK2-H25	B-84/02	SIMPLE	A	S91H1V216	N/A				
2	1C11-SK2-H26	B-84/02	SIMPLE	U	S91H1V223	191H1023	1-91-6570	A	S91H1V237	LOOSE NUT, SUPPORT IS CARRYING NO LOAD.
2	1C11-SK2-H27	B-84/02	SIMPLE	A	S91H1V215	N/A				
2	1C11-SK2-H28	B-84/02	SIMPLE	A	S91H1V214	N/A				
2	1C11-SK1-H2	B-85/04	SIMPLE	A	S91H1V195	N/A				
2	1C11-SK1-H3	B-85/04	SIMPLE	U	S91H1V100	191H1008	N/A			BENT ROD ACCEPTABLE AS IS PER GPC ENGINEERING.
2	1C11-SK1-H4	B-85/04	SIMPLE	A	S91H1V194	N/A				
2	1C11-SK1-H5	B-85/04	SIMPLE	U	S91H1V197	191H1017	1-91-6504	A	S91H1V230	NO LOAD ON SUPPORT
2	1C11-SK1-H6	B-85/04	SIMPLE	U	S91H1V226	191H1023	1-91-6570	A	S91H1V236	CLEVIS SKEWED ON PIPE. LOOSE NUT ON CLEVIS. ACCEPTABLE PER GPC ENGINEERING.
2	1C11-SK1-H8	B-85/04	SIMPLE	A	S91H1V222	N/A				
2	1C11-SK1-H9	B-85/04	SIMPLE	A	S91H1V221	N/A				
2	1C11-SK1-H1	B-85/04	SIMPLE	A	S91H1V228	N/A				
2	1C11-SK1-H10	B-85/04	SIMPLE	A	S91H1V196	N/A				
2	1C11-SK1-H12	B-85/04	SIMPLE	A	S91H1V098	N/A				

## 1991 E.I. HATCH UNIT 1 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	1C11-SK1-H13	B-85/04	SIMPLE	A	S91H1V099	N/A				
2	1C11-SK1-H14	B-85/04	SIMPLE	U	S91H1V225	191H1023	N/A			BENT ROD ACCEPTABLE AS IS PER GPC ENGINEERING.
2	1C11-SK1-H7	B-85/04	SIMPLE	A	S91H1V227	N/A				
2	1E51-RCICH-16	B-88/03	SIMPLE	A	S91H1V070	N/A				
2	1E11-RHRH-118	B-89C/00	SIMPLE	A	S91H1V044	N/A				
2	1E11-RHRH-119	B-88C/00	SIMPLE	A	S91H1V042	N/A				
2	1E11-RHRH-269	B-88C/00	SIMPLE	A	S91H1V045	N/A				
2	1E11-RHRH-272	B-88C/00	SIMPLE	A	S91H1V043	N/A				
3	1P41-ISH-25	C-8/00	SIMPLE	A	S91H1V012	N/A				
3	1P41-ISH-33	C-8/00	SIMPLE	U	S91H1V011	191H1001	1-91-5454	A	S91H1V095	BENT PADULE SLIPPED BEARING
3	1P41-ISH-29	C-9/00	SIMPLE	A	S91H1V010	N/A				
3	1P41-ISH-30	C-9/00	SIMPLE	A	S91H1V013	N/A				
3	1P41-SDGH-4	C-18/00	SPRING	U	S91H1V027	191H1001	1-91-5455	A	S91H1V087	IMPROPER SPRING CAN SETTING
3	1P41-SDGH-5	C-18/00	SIMPLE	A	S91H1V026	N/A				
3	1P41-SDGH-7	C-18/00	SPRING	U	S91H1V025	191H1001	1-91-5455	A	S91H1V093	IMPROPER SPRING CAN SETTING
3	1P41-SDGH-1	C-19/00	SIMPLE	A	S91H1V081	N/A				
3	1P41-SDGH-2	C-19/00	SIMPLE	A	S91H1V080	N/A				
3	1P41-SDGH-3	C-19/00	SIMPLE	A	S91H1V079	N/A				
3	1P41-SWH-18	C-21/01	SIMPLE	A	S91H1V305	N/A				

## 1991 E.I. HATCH UNIT 1 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
3	1P41-SWH-19	C-21/01	SIMPLE	U	S91H1V006	191H1001	1-91-5456	A	S91H1V146	BENT ROD
3	1P41-SWH-200	C-22/01	SIMPLE	A	S91H1V029	N/A				
3	1P41-SWH-27	C-23/00	SIMPLE	A	S91H1V007	N/A				
3	1P41-102H-802	C-24/01	SIMPLE	A	S91H1V030	N/A				
3	1P41-SWH-223	C-24/01	SIMPLE	A	S91H1V031	N/A				
3	1P41-SWH-245	C-24/01	SIMPLE	A	S91H1V033	N/A				
3	1P41-SWH-203	C-25/01	SIMPLE	A	S91H1V032	N/A				
3	1P41-SWH-180	C-36/01	SIMPLE	A	S91H1V164	N/A				
3	1P41-SWH-86	C-52/00	SIMPLE	A	S91H1V150	N/A				
3	1P41-SWH-10	C-73/01	SIMPLE	A	S91H1V020	N/A				
3	1P41-SWH-11	C-73/01	SIMPLE	A	S91H1V019	N/A				
3	1P41-SWH-12	C-73/01	SIMPLE	A	S91H1V018	N/A				
3	1P41-SWH-13	C-73/01	SIMPLE	A	S91H1V017	N/A				
3	1P41-SWH-14B	C-73/01	SIMPLE	A	S91H1V041	N/A				
3	1P41-SWH-15	C-73/01	SIMPLE	A	S91H1V036	N/A				
3	1P41-SWH-16	C-73/01	SIMPLE	A	S91H1V040	N/A				

SUMMARY OF  
NON-SAFETY NUREG-0313, REV. 2 INSPECTIONS

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
AUGMENTED EXAMINATIONS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR WATER CLEAN-UP SYSTEM</u>							
-- -- NUREG-0313S	C-115/00	1G31-3RWCU-4-D-10 ELBOW TO PIPE	UT-H-400/10	145-H	S91H1C054 S91H1U092 S91H1C050 S91H1U088 S91H1U093	N/A UT CAL NRI N/A UT CAL NRI N/A THICKNESS	N/A
-- -- NUREG-0313S	C-115/00	1G31-3RWCU-4-D-14 ELBOW TO PIPE	UT-H-400/10	145-H	S91H1C055 S91H1U094 S91H1C051 S91H1U089 S91H1U095	N/A UT CAL NRI N/A UT CAL NRI N/A THICKNESS	N/A
-- -- NUREG-0313S	C-111/00	1G31-3RWCU-4-HX-6 PIPE TO ELBOW	UT-H-400/10	145-H	S91H1C056 S91H1U096 S91H1C052 S91H1U090 S91H1U097	N/A UT CAL NRI N/A UT CAL NRI N/A THICKNESS	N/A
-- -- NUREG-0313S	C-116/00	1G31-3RWCU-4-R-5 PIPE TO ELBOW	UT-H-400/10	145-H	S91H1C057 S91H1U098 S91H1C053 S91H1U091 S91H1U099	N/A UT CAL NRI N/A UT CAL NRI N/A THICKNESS	N/A
-- -- NUREG-0313S	C-117/00	1G31-3RWCU-4-R-34 PIPE TO ELBOW	UT-H-400/10	145-H	S91H1C268 S91H1U367 S91H1C177 S91H1U239 S91H1C178 S91H1U240 S91H1U368	N/A UT CAL NRI N/A UT CAL NRI N/A UT CAL RI GEOMETRY N/A THICKNESS	N/A

E.I. HATCH UNIT 1 FALL 1991 REFUELING OUTAGE  
AUGMENTED EXAMINATIONS

ASME	EXAM		EXAMINATION	CAL	EXAM/CAL			
SECTION XI	FIGURE NO.	EXAMINATION/AREA	PROCEDURE	BLOCK	SHEET NO.	RESULTS	REMARKS	
REACTOR WATER CLEAN-UP SYSTEM								
--	C-108/00	1G31-3RWCU-6-D-2	UT-H-400/10	133-H	S91H1C071	N/A	UT CAL	EXAM LIMITATION DUE TO WHIP- RESTRAINT, 94% COVERAGE.
NUREG-0313S		PIPE TO ELBOW			S91H1U113	NRI		
					S91H1C082	N/A	UT CAL	
					S91H1U131	NRI		
					S91H1U115	N/A	THICKNESS	
--	C-108/00	1G31-3RWCU-6-D-3	UT-H-400/10	133-H	S91H1C072	N/A	UT CAL	EXAM LIMITATION DUE TO WHIP- RESTRAINT, 94% COVERAGE.
NUREG-0313S		ELBOW TO PIPE			S91H1U114	NRI		
					S91H1C081	N/A	UT CAL	
					S91H1U132	RI	GEOMERTY	
					S91H1U116	N/A	THICKNESS	
--	C-108/00	1G31-3RWCU-6-D-7	UT-H-400/10	133-H	S91H1C074	N/A	UT CAL	N/A
NUREG-0313S		ELBOW TO PIPE			S91H1U117	NRI		
					S91H1C075	N/A	UT CAL	
					S91H1U118	NI		
					S91H1U119	N/A	THICKNESS	

SUMMARY OF  
REACTOR PRESSURE VESSEL  
INTERNAL INSPECTIONS



This section of the report provides a summary of the remote visual examinations performed by SNC and GE on selected RPV internals. The visual examinations were performed using SNC procedure VT-H-755 Rev.2. This procedure incorporates requirements for ASME Section XI, GE Service Information Letters where applicable and NRC IEB 80-13.

All visual examination tapes were reviewed by SNC or GE certified level II and/or III visual examiners to determine the acceptability of the various RPV internal components.

#### CORE SPRAY SPARGER INSPECTION

Per the requirements of NRC IEB 80-13, the core spray spargers and associated piping were visually examined. Underwater video equipment recorded the examination results to the resolution of a .001 inch diameter visual acuity standard.  
No reportable indications were found.

#### RPV INSPECTION

Two (2) RPV Clad Specimens designated during preservice inspection as ad patch #2 @ 135°, and #6 @ 315° were visually examined. The remaining internal components selected for examination were the shroud support manway covers @ 0° and 180°; Surveillance Specimen Assemblies @ 30°, 120°, and 300°; six (6) shroud vertical welds; four (4) shroud circ. welds; and ten (10) fuel cell top guides.  
No reportable indications were found.

#### STEAM DRYER INSPECTION

Remote visual examinations were performed on various components of the steam dryer which consisted of: support ring, vertical vane bank welds, lifting eye assembly, guide brackets and guide rod assembly @ 0° and 180°. Rub marks and metal displacement were reported on the guide rod brackets. GE Engineering determined that the indications were acceptable for continued operation.  
No other reportable indications were found.

#### JET PUMP INSPECTIONS

Remote visual examinations were performed on 10 jet pump inlet mixers in the throat area. The inspections of the inlet mixer throat area detected evidence of erosion. A review of the 1990 IVVI tapes revealed the erosion was present during those examinations. GE Engineering reviewed the tapes and determined that the inlet mixers were acceptable for continued operation.  
No other reportable indications were found.

#### MOISTURE SEPARATOR EXAMINATIONS

Remote visual examinations were performed on various components of the moisture separators consisting of: lifting eye assembly @ 20°, 90° and 270°, guide bracket at 0°, and guide rod assembly @ 0° and 180°. No reportable indications were found.

#### FEEDWATER SPARGER

A visual examination of the feedwater sparger @ 45°, 135°, 225°, and 315°, consisting of the sparger arms flow nozzles and welds, sparger tee flow nozzles and welds, sparger brackets, sparger bracket attachment weld was performed. No reportable indications were recorded.

ANII review of the tapes was performed for the above listed examinations.

The following pages contain a copy of the RPV internal inspection tape log which is an itemized list of all components and areas visually examined during the 1991 refueling outage. This log, along with the video tapes, is maintained by the onsite document control department.



**E.I. HATCH UNIT 1**  
**INVESSEL VISUAL (IVVI) TAPE LOG**  
**REFUELING OUTAGE #13 - OCTOBER, 1991**

Page 1 of 7

TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION	EXAMINER INITIALS
EIH1-91-1	00000-01713	180° Manway Cover (labeled as 0° Cover)	EPB
EIH1-91-1	01713-02224	0° Manway Cover	EPB
EIH1-91-1	02224-02946	Pre-decon 350° Core Spray Sparger Tee Box Bracket	EPB
EIH1-91-1	02946-03211	1", 3", 5", and 7" camera screen sizing	SWS
EIH1-91-1	03211-03313	.001" Camera Resolution 10-11-91, 0900 hours	SWS
EIH1-91-1	03313-04821	Drain pipe #4	SWS
EIH1-91-1	04821-05406	Vertical Bank Weld #31	SWS
EIH1-91-1	05406-10512	Drain Channel #7, Right Side	SWS
EIH1-91-1	10512-13753	Drain Channel #7, left Side	VWH
EIH1-91-1	13753-14459	Drain Channel #7, Top Side	VWH
EIH1-91-1	14459-20111	Vertical Bank Weld #32	VWH
EIH1-91-1	20111-21517	Vertical Bank Weld #33	SWS
EIH1-91-1	21517-21629	Horizontal Weld between Vertical Bank Weld #32 & 33	SWS
EIH1-91-1	21629-22837	Vertical Bank Weld #34	SWS
EIH1-91-1	22837-23519	Vertical Bank Weld #35	SWS
EIH1-91-1	23519-24346	325° Lifting Eye Assembly	SWS
EIH1-91-1	24346-25823	Vertical Bank Weld #36	SWS
EIH1-91-1	25823-30325	Vertical Bank Weld #37	SWS
EIH1-91-1	30325-31516	Vertical Bank Weld #38	SWS
EIH1-91-1	31516-34141	Drain Channel #8, Right Side	VWH



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TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION	EXAMINER INITIALS
EIH1-91-1	34141-41229	Drain Channel #8, Left Side	VWH
EIH1-91-1	41229-42057	Drain Channel #8, Top Side	VWH
EIH1-91-1	42057-42340	.001" Camera Resolution 10-12-91, 0800 hours	EPB
EIH1-91-2	00000-01143	Vertical Bank Weld #39	EPB
EIH1-91-2	01143-02029	Vertical Bank Weld #39, (previously found indications)	EPB
EIH1-91-2	02029-02825	Vertical Bank Weld #40	EPB
EIH1-91-2	02825-03436	Vertical Bank Weld #1	EPB
EIH1-91-2	03436-03716	Horizontal Weld between Vertical Bank Weld #1 & 40	EPB
EIH1-91-2	03716-04628	0" Upper Guide	EPB
EIH1-91-2	04628-05203	0" Skirt Vertical Weld	EPB
EIH1-91-2	05203-10205	0" Lower Guide	KAE
EIH1-91-2	10205-10736	Vertical Bank Weld #2	KAE
EIH1-91-2	10736-11738	Vertical Bank Weld #3	KAE
EIH1-91-2	11738-12747	Vertical Bank Weld #4 & the adjacent Horizontal weld	KAE
EIH1-91-2	12747-13630	Vertical Bank Weld #5 & the adjacent Horizontal weld	KAE
EIH1-91-2	13630-14830	Drain Channel #1, Right Side	KAE
EIH1-91-2	14830-20017	Drain Channel #1, Left Side	KAE
EIH1-91-3	00000-00308	Drain Channel #1, Top Side	EPB
EIH1-91-3	00308-01457	Vertical Bank Weld #6	EPB
EIH1-91-3	01457-03049	Vertical Bank Weld #7	EPB



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TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION	EXAMINER INITIALS
EIH1-91-3	03040-04300	35° Lifting Eye Assembly	EPB
EIH1-91-3	04300-05340	Vertical Bank Weld #8	EPB
EIH1-91-3	05340-05526	Horizontal Weld between Vertical Bank Weld #8 & 9	EPB
EIH1-91-3	05525-10910	Drain Channel #2, Right Side	EPB
EIH1-91-3	10910-11135	Drain Channel #2, Top Side	EPB
EIH1-91-3	11135-12033	Vertical Bank Weld #9	KAE
EIH1-91-3	12033-12733	Vertical Bank Weld #10	KAE
EIH1-91-3	12733-14502	Drain Pipe #1	KAE
EIH1-91-3	14502-15325	Drain Channel #2, Left Side	KAE
EIH1-91-4	00000-00100	.001" Camera Resolution 10-13-91, 0900 hours	EPB
EIH1-91-4	00100-02050	Vertical Bank Weld #19, (Previously found Indications)	KAE
EIH1-91-4	02050-04320	Vertical Bank Weld #22, (Previously found Indications)	KAE
EIH1-91-4	04320-04408	.001" Camera Resolution 10-14-91, 0845 hours	EPB
EIH1-91-4	04408-05055	180° Upper Guide	EPB
EIH1-91-4	05055-05441	180° Skirt Vertical Weld	EPB
EIH1-91-4	05441--10819	180° Lower Guide	EPB
EIH1-91-4	10819-12125	Upper Support Ring , (Previously found Indications)	EPB
EIH1-91-4	12125-12308	Tie Bar #7	EPB
EIH1-91-4	12308-12927	Separator, 90° Lifting Eye Assembly	EPB
EIH1-91-4	12927-13517	Separator, 20° Lifting Eye Assembly	EPB





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TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION	EXAMINER INITIALS
EIH1-91-4	13517-13836	Separator, 0° Guide	EPB
EIH1-91-4	13836-14330	Separator, 270° Lifting Eye Assembly	EPB
EIH1-91-4	14330-14400	.001" Camera Resolution 10-14-91, 1300 hours	EPB
EIH1-91-5	00000-00050	.001" Camera Resolution 10-17-91, 1940 hours	EPB
EIH1-91-5	00050-02030	0° Guide Rod Assembly	KAE
EIH1-91-5	02030-03549	180° Guide Rod Assembly	KAE
EIH1-91-5	03549-03640	Cladding Patch #1	KAE
EIH1-91-5	03460-03740	Cladding Patch #6	KAE
EIH1-91-5	03470-04100	120° Surveillance Specimen Assembly	KAE
EIH1-91-5	04100-04440	300° Surveillance Specimen Assembly	KAE
EIH1-91-5	04440-10500	45° Feedwater Sparger	VWH
EIH1-91-5	10500-12840	135° Feedwater Sparger	VWH
EIH1-91-5	12840-14900	225° Feedwater Sparger	KAE
EIH1-91-5	14900-20315	315° Feedwater Sparger	KAE
EIH1-91-6	00137-01019	315° Feedwater Sparger	KAE
EIH1-91-6	01019-10635	Core Spray Internal Piping 10° to 170°	VWH
EIH1-91-6	10635-10800	.001" Camera Resolution 10-18-91, 0715 hours	VWH
EIH1-91-6	10800-20331	Core Spray Internal Piping 190° to 330°	DET
EIH1-91-7	00000-00049	.001" Camera Resolution 10-18-91, 1000 hours	DET
EIH1-91-7	00049-02500	Core Spray Internal Piping 330° to 350°	DET



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TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION	EXAMINER INITIALS
EIH1-91-7	02500-12210	Core Spray Spargers 90° - 180° - 270° Sparger & Nozzles	EPB
EIH1-91-7	12210-20343	Core Spray Spargers 90° - 0° - 270° Sparger & Nozzles	DE7
EIH1-91-8	00000-01425	Core Spray Spargers 90° - 0° - 270° Sparger & Nozzles	DE7
EIH1-91-8	01425-10340	Core Spray Spargers 90° - 0° - 270° Brackets & welds	EPB
EIH1-91-8	10340-14027	Core Spray Spargers 90° - 180° - 270° Brackets & welds	KAE
EIH1-91-8	14027-14500	.001" Camera Resolution 10-18-91, 2200 hours	KAE
EIH1-91-8	14500-15225	0° Guide Rod (Upper 2')	VWH
EIH1-91-8	15225-20114	180° Guide Rod (Upper 2')	VWH
EIH1-91-9	00000-02228	Shroud circ. weld #SHR-C-5 (outside surface)	VWH
EIH1-91-9	02228-03309	Shroud vertical weld #SHR-V-6 & 7 (outside surface)	KAE
EIH1-91-9	03309-03528	Shroud vertical weld #SHR-V-9 (outside surface)	KAE
EIH1-91-9	03528-03558	.001" Camera Resolution 10-19-91, 0545 hours	VWH
EIH1-91-9	03558-03729	Shroud vertical weld #SHR-V-4 (outside surface)	VWH
EIH1-91-9	03729-03859	Shroud vertical weld #SHR-V-5 (outside surface)	VWH
EIH1-91-9	03859-04156	Shroud vertical weld #SHR-V-7 (inside surface)	VWH
EIH1-91-9	04156-04337	Shroud vertical weld #SHR-V-6 (inside surface)	VWH
EIH1-91-9	04337-04456	Shroud vertical weld #SHR-V-8 (inside surface)	VWH
EIH1-91-9	04456-04540	.001" Camera Resolution 10-20-91, 2315 hours	VWH
EIH1-91-9	04540-13602	Shroud circ. weld #SHR-C-5 (inside surface)	KAE
EIH1-91-9	13602-14321	Shroud circ. weld #SHR-V-9 (inside surface) Tape labeled as #SHR-V-5	KAE



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TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION	EXAMINER INITIALS
EIH1-91-9	14321-14436	Shroud vertical weld #SHR-V-5 (inside surface)	<i>KAE</i>
EIH1-91-9	14456-20026	Shroud circ. weld #SHR-C-4 (inside surface)	<i>VWH</i>
EIH1-91-10	00000-01628	Shroud circ. weld #SHR-C-4 (inside surface)	<i>VWH</i>
EIH1-91-10	01628-04024	Shroud circ. weld #SHR-C-4 (outside surface)	<i>DE7</i>
EIH1-91-10	04024-04234	Shroud vertical weld #SHR-V-8 (outside surface) Tape labeled as #SHR-C-4	<i>DE7</i>
EIH1-91-10	04234-04401	Shroud vertical weld #SHR-V-4 (inside surface)	<i>DE7</i>
EIH1-91-10	04401-04602	Shroud vertical weld #SHR-V-4 (outside surface)	<i>DE7</i>
EIH1-91-10	04602-04741	.001" Camera Resolution 10-21-91, 1030 hours	<i>DE7</i>
EIH1-91-10	04741-04920	Jet Pump #1 Sensing line	<i>EPB</i>
EIH1-91-10	04920-05204	30" Surveillance Specimen Brackets	<i>EPB</i>
EIH1-91-10	05204-05502	Jet Pump #1 Mixer Area and Riser to Riser Weld	<i>EPB</i>
EIH1-91-10	05502-05800	Jet Pump #2 Mixer Area and Riser to Riser Weld	<i>EPB</i>
EIH1-91-10	05800-10135	Jet Pump #3 Mixer Area and Riser to Riser Weld	<i>EPB</i>
EIH1-91-10	10135-10420	Jet Pump #4 Mixer Area and Riser to Riser Weld	<i>EPB</i>
EIH1-91-10	10420-10900	Jet Pump #5 Mixer Area and Riser to Riser Weld	<i>EPB</i>
EIH1-91-10	10900-11135	Jet Pump #6 Mixer Area and Riser to Riser Weld	<i>EPB</i>
EIH1-91-10	11135-11444	Jet Pump #7 Mixer Area and Riser to Riser Weld	<i>EPB</i>
EIH1-91-10	11444-11700	Jet Pump #8 Mixer Area and Riser to Riser Weld	<i>EPB</i>
EIH1-91-10	11700-11935	Jet Pump #9 Mixer Area and Riser to Riser Weld	<i>EPB</i>
EIH1-91-10	11935-12219	Jet Pump #10 Mixer Area and Riser to Riser Weld	<i>EPB</i>





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TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION	EXAMINER INITIALS
EIH1-91-10	12219-12420	Jet Pump #10 Sensing line	EPB
EIH1-91-10	12420-12915	Relook @ 45° Feedwater Nozzle Inner Radius Area	EPB
EIH1-91-10	12915-13046	.001" Camera Resolution 10-21-91, 1345 hours	EPB
EIH1-91-11	N/A	NOTE: TAPE LABELED AS EIH1-91-TG-1	N/A
EIH1-91-11	00000-00537	Top Guide Cell # 06-27	KAE
EIH1-91-11	00537-00845	Top Guide Cell # 10-39	KAE
EIH1-91-11	00845-01356	Top Guide Cell # 10-15	KAE
EIH1-91-11	01356-01845	Top Guide Cell # 22-23	KAE
EIH1-91-11	01845-02452	Top Guide Cell # 22-31	KAE
EIH1-91-11	02452-02851	Top Guide Cell # 30-31	KAE
EIH1-91-11	02851-03327	Top Guide Cell # 30-23	KAE
EIH1-91-11	03327-03436	.001" Camera Resolution 10-23-91, 2345 hours	KAE
EIH1-91-11	03436-04111	Shroud Vertical Welds # SHR-V-9 Relook	KAE
EIH1-91-11	04111-04902	Shroud Vertical Welds # SHR-V-8 Relook	KAE/EPB
EIH1-91-11	04902-10615	Control Rod Blade Cell #39-02	KAE
EIH1-91-11	10615-11110	Top Guide Cell # 42-15	KAE
EIH1-91-11	11110-11711	Top Guide Cell # 42-39	KAE
EIH1-91-11	11711-12059	Top Guide Cell # 46-27	KAE

SUMMARY  
OF CLASS 1 AND 2  
REPAIRS AND REPLACEMENTS

## REPAIRS AND REPLACEMENTS

GPC procedure 42EN-ENG-014-OS provides guidelines for determining the ASME Section XI, repair/replacement requirements at E.I. Hatch Nuclear Plant. The site Repair/Replacement Coordinator maintains an itemized listing of Class 1 and 2 repair/replacement activities for each cycle. The following tables provide an itemized list of those components which were included in the ASME Section XI Repair and Replacement Program. (Class 3 items included for information only)

Copies of the individual Repair/Replacement evaluation sheets are filed with the MWO Packages and are available for review at the site.

REPAIR AND REPLACEMENT FILES  
UNIT 1 1991

COMPONENT	DESCRIPTION	TEST	REMARKS
** MWO 1-89-4690 1B21 SUPPORTS	MODIFY SUPPORTS 1B21-F6-H002, F4-H001, FH-H10 AND FD-H11 TO COMPLY WITH THE REQUIREMENTS OF IEB-79-14.	VT-3	EVALUATION FOR ACCEPTABILITY WAS PERFORMED AS PART OF DESIGN CHANGE PACKAGE 81-05B.
** MWO 1-89-4770 1P42 SUPPORTS	MODIFY SUPPORTS 1P42-CCW-H117, H118 AND H118A PER THE REQUIREMENTS OF IEB-79-14.	VT-3	EVALUATION FOR ACCEPTABILITY WAS PERFORMED AS PART OF DESIGN CHANGE PACKAGE 81-05B.
** MWO 1-89-5053 1E11 F050B CHECK VALVE	BONNET GASKET LEAKED DURING HYDRO TEST. REPLACE BONNET GASKET.	TEST DURING VESSEL PRESS. TEST	OLD BONNET GASKET WILL BE REPAIRED WITH APPROVED GASKET FOR THIS VALVE. ANTICIPATED FAILURE FOR THIS TYPE VALVE. REPAIR WAS LISTED IN LAST NIS-1 REPORT BUT NOT UNDER REPAIR AND REPLACEMENT.
** MWO 1-89-5057 1B21 F010B CHECK VALVE	VALVE HAS PRESSURE SEAL LEAK, REPAIR PER MAINTENANCE PROCEDURE 510M-MNT-023-05.	NORMAL PRESSURE TEST	THESE TYPE REPAIRS ARE ANTICIPATED DUE TO SERVICE SEEN BY THESE TYPE VALVES. PROCEDURE IS APPROVED FOR THIS ACTIVITY. REPAIR WAS LISTED ON LAST NIS-1 FORM, BUT NOT UNDER R/R.
** MWO 1-89-5059 1P42 SUPPORTS CCWH-113 AND 119	MODIFY SUPPORTS PER IEB-79-14.	VT-3	EVALUATION FOR ACCEPTABILITY WAS PERFORMED AS PART OF THE DESIGN CHANGE PACKAGE.
** MWO 1-89-5060 1P42- SUPPORTS	MODIFY SUPPORTS 1P42-CCW-H115, H115A, H116 AND H700 TO COMPLY WITH IEB 79-14.	VT-3	EVALUATION FOR ACCEPTABILITY WAS PERFORMED AS PART OF THE DESIGN CHANGE PACKAGE 81-05B.
** MWO 1-89-6010 1E11-F055B	REPLACE DISC, DISC HAS SURFACE IRREGULARITIES AND WILL NOT PASS LEAK-AGE TEST.	RELIEF VALVE TEST 42SV-SUV-004	REPLACING THE DISC IS A NORMAL METHOD OF REPAIR. NORMAL WEAR FOR THIS TYPE SERVICE. DISC REPLACEMENT WAS LIKE IN KIND REPLACEMENT.
** MWO 1-89-6158 SUPPORTS	MODIFY PIPE SUPPORTS 1E11-RHR- H182, H380 AND H381 TO COMPLY WITH IEB 79-14	VT-3	N/A
** MWO 1-89-6874 1E11 SUPPORTS	MODIFY SUPPORTS 1E11-RHR-H 344, 345 AND 708 TO COMPLY WITH IEB-79-14	VT-3	EVALUATION FOR ACCEPTABILITY WAS PERFORMED AS PART OF THE DESIGN CHANGE PACKAGE 81-05B.
** MWO 1-89-6902 PIPING	REMOVE AND RESTORE SECTIONS OF PLANT SERVICE WATER PIPING TO DRYWELL COOLERS T47-B007A/B, T47-B008A/B AND T47-B009A/B TO FACILITATE REPLACEMENT OF DRYWELL COOLING COILS.	HYDRO	N/A
** MWO 1-90-0097 1E21 SUPPORT CSH-60	MODIFY SUPPORT TO COMPLY WITH IEB-79-14	VT-3	EVALUATION FOR ACCEPTABILITY PERFORMED AS PART OF THE DESIGN CHANGE PACKAGE.
** MWO 1-90-0570 1E11 SUPPORT RHR-H-304	MODIFY SUPPORT TO COMPLY WITH THE REQUIREMENTS OF IEB-79-14.	VT-3	EVALUATION FOR ACCEPTABILITY WAS PERFORMED AS PART OF DESIGN CHANGE PACKAGE 81-05B.
** MWO 1-90-0572 SUPPORT	MODIFY SUPPORT 1C41-F1-H002 TO COMPLY WITH IEB 79-14	NONE	REQUIRED EVALUATION WAS PERFORMED AS PART OF THE DCR PACKAGE

REPAIR AND REPLACEMENT FILES  
UNIT 1 1991

COMPONENT	DESCRIPTION	TEST	REMARKS
** MWC 1-90-0573 SUPPORTS (VARIOUS)	MODIFY SUPPORTS 1B21-MVVH-700, H-701, H-702, 1B21-SS-3, 5, 14, 29, TO COMPLY WITH IEB-79- 14.	NONE	EVALUATION FOR THESE SUPPORTS PROVIDED WITH DCR 81-058.
** MWO 1-90-0573 1B21 SUPPORTS	MODIFY SUPPORTS 1B21-MVVH-700, 701, 702, 1B21-SS-3, 5, 14 AND 29 PER THE REQUIREMENTS OF IEB 79-14.	VI-3	EVALUATION FOR ACCEPTABILITY WAS PERFORMED AS PART OF DESIGN CHANGE PACKAGE 81-058.
** MWO 1-90-1584 1B21 MSIV FO22C	VALVE FAILED LLRT. REPAIR AS NECESSARY.	TEST DURING VESSEL PRESS.TEST	THIS IS ANTICIPATED FAILURE FOR THIS TYPE VALVE UNDER THESE SERVICE CONDITIONS. PROCEDURE 52CM-821-001-05 IS APPROVED FOR THIS REPAIR. REPAIR WAS LISTED IN LAST NIS-1 REPORT BUT NOT UNDER R/R.
** MWO 1-90-2056 1148- SUPPORTS CP- 704 AND 707	FABRICATE AND INSTALL PIPE SUPPORTS PER DESIGN CHANGE PACKAGE 88-267	VI-3	EVALUATION FOR ACCEPTABILITY WAS PERFORMED AS PART OF DESIGN CHANGE PACKAGE.
** MWO 1-90-2648 SUPPORT 1B21-HB20	MODIFY SUPPORT TO COMPLY WITH IEB 79-14	NONE	EVALUATION WAS PROVIDED AS PART OF THE DCR (81-058)
** MWO 1-90-3236 2P41-FO50 VALVE	REPLACE DISC WITH NEW DISC FROM WAREHOUSE STOCK. VALVE IS IN WAREHOUSE AS SPARE.	NONE	N/A
** MWO 1-90-3888 1B21 FO20 &FO38	REPLACE WORN DISC AND ASSOCIATED VALVE INTERNALS	N/A	REPLACEMENT OF PARTS IS BEING PERFORMED UNDER AN APPROVED MAINTENANCE AND INSPECTION PROCEDURE. PARTS USED WILL BE PROCURED UNDER APPROVED PROCUREMENT PROGRAM.CAUSE OF FAILURE NORMAL WEAR.
** MWO 1-90-7476 DIESEL OIL COOLER 1P41	PLANT SERVICE WATER TUBE LEAKS HAVE BEEN DETECTED ON 1R43- 8003 AND 8005A TUBES WILL BE PLUGGED PER INSTRUCTIONS FROM A/E	FT PER PROCEDURE	TUBE PLUGGING IS AN ACCEPTABLE METHOD OF ALLEVIATING LEAKAGE. THE CAUSE OF LEAKAGE /TUBE FAILURE IS DUE TO LENGTHY SERVICE IN A HARSH PSW PIVER WATER ENVIRONMENT.
** MWO 1-91-0020 REV 1 1F41-FO50 RELIEF VALVE	VALVE WILL NOT SEAT PROPERLY, REPLACE DISC.	RELIEF VALVE FUNCTIONAL TEST.	DISC IS BEING REPLACED UNDER AN APPROVED MAINTENANCE PREVENTATIVE MAINTENANCE PROCEDURE. SKILL OF CRAFT, NORMAL WEAR, EXPECTED FAILURE.
** MWO 1-91-0634 1E11-FO82A VALVE	REPLACE WEDGE IN VALVE. WEDGE WILL NOT SEAT OFF.	CHECK FOR LEAKS AT PRESSURE	WEDGE WAS REPLACED UNDER A CONTROLLED MAINTENANCE PROGRAM, PART WAS PROCURED UNDER AN APPROVED PROCUREMENT PROGRAM. CAUSE OF FAILURE IS NORMAL WEAR FOR CONDITIONS.
** MWO 1-91-1783 P-41- COO1,A,B,C,D	REPLACE CARBON STEEL BOLTS WITH STAINLESS STEEL BOLTS.	NONE	BOLTS WERE REPLACED DUE TO HIGH CORROSION PROBLEM IN MOISTURE LADEN ENVIRONMENT. INTAKE STRUCTURE
** MWO 1-91-2038 R/R1 1E11-FO55A NOZZLE	NO DAMAGE EXPERIENCED ON NOZZLE TO BE REPLACED. TIME RESTRAINTS REQUIRE NEW NOZZLE TO BE PUT IN DUE TO INABILITY TO MACHINE OLD NOZZLE IN A TIMELY MANNER.	CHECK FOR LEAKS AT PRESSURE	NOZZLE TO BE REPLACED WITH IDENTICAL NOZZLE IN ACCORDANCE WITH APPLICABLE CODES AND PROCEDURES.

REPAIR AND REPLACEMENT FILES  
UNIT 1 1991

COMPONENT	DESCRIPTION	TEST	REMARKS
** MWO 1-91-2038 R/R2 1E11-F055A VALVE DISC	DISC TO BE REPLACED HAS SMALL INDICATIONS WHICH ARE UNACCEPTABLE. DISC CANNOT BE MACHINED AND MUST BE REPLACED.	CHECK FOR LEAKS AT PRESSURE	REPLACEMENT OF DISC WILL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND PLANT PROCEDURES. CAUSE OF FAILURE IS DUE TO NORMAL WEAR.
** MWO 1-91-2041 1E11-F091A VALVE	REPLACE VALVE STEM AND PLUG ASSEMBLY.	CHECK FOR LEAKS AT PRESSURE	STEM REPLACEMENT IS DUE TO PITS IN VARIOUS LOCATIONS. PLUG REPLACEMENT IS DUE TO PREVIOUS MACHINE WORK. NEW PARTS ARE SUITABLE FOR PROPER REPAIR.
** MWO 1-91-2043 1E11-F140A VALVE	REPLACE VALVE WEDGE. CRACK IN WEDGE.	TEST AT SYSTEM PRESSURE	CAUSE OF FAILURE IS UNKNOWN AT THIS TIME. REPLACEMENT WILL BE UNDER AN APPROVED PROCUREMENT AND REPLACEMENT PROGRAM.
** MWO 1-91-2044 R/R1 1E11-F140B 6" GATE VALVE.	REPLACE WEDGE AND STEM.	CHECK FOR LEAKS AT PRESSURE	STEM REPLACEMENT IS DUE TO UNSATISFACTORY RUNOUT CHECK. WEDGE REPLACEMENT IS DUE TO UNACCEPTABLE FIT IN SEAT AREA. CAUSE OF FAILURE APPEARS TO BE NORMAL WEAR.
** MWO 1-91-2046 R/R2 1E11-F140B 6" GATE VALVE	BONNET STUDS/NUTS ARE BEING REPLACED DUE TO DAMAGE CAUSED DURING REMOVAL.	CHECK FOR LEAKS AT PRESSURE	STUDS DAMAGED DURING MAINTENANCE. NOT AN INSERVICE FAILURE. EXACT REPLACEMENT IN KIND MATERIALS.
** MWO 1-91-3164 1P41-C001B PUMP BOWL	REPLACEMENT OF CARBON STEEL PUMP BOWL WITH STAINLESS STEEL PUMP BOWL AND ASSOCIATED BOLTING PER DCR-85-049.	CONFIRM PUMP OPERABILITY.	N/A
** MWO 1-91-3182 1P41 PIPING	REPLACE PORTION OF SERVICE WATER MINIMUM FLOW LINE FROM THE PSW PUMP 1P41-C001A DISCHARGE HEADER TO THE FIRST FLANGE AND FROM THE 3 X2.5 REDUCER TO THE INLET OF 1P41-FB91A.	OPERATING PRESSURE TEST	PIPING WAS REPLACED DUE TO SEVERE WALL DEGRADATION DUE TO THE CORROSIVE NATURE OF THE SERVICE WATER AND THE HIGH FLUID VELOCITY IN THE PIPE.
** MWO 1-91-3183 1P41 PIPING	REPLACE PSW PIPING MINIMUM FLOW FROM THE PSW PUMP DISCHARGE HEADER TO THE INLET OF VALVES 1P41-F208C AND FB91C.	SURFACE AND OPERATING PRESSURE	PIPING WAS REPLACED WITH LIKE IN KIND MATERIAL USING APPROVED PROCEDURES. CAUSE OF FAILURE IS EXTENDED SERVICE IN A HIGH VELOCITY AND CORROSIVE ENVIRONMENT. RIVER WATER.
** MWO 1-91-3184 1P41 PIPING	REPLACE THE PSW MINIMUM FLOW PIPING FROM THE PSW PUMP DISCHARGE HEADER TO THE INLET OF VALVES 1P41-F208D AND 1P41-FB91D, AND ASSOCIATED TUBING AND FITTINGS DOWNSTREAM OF 1P41-FB91D.	SURFACE OPERATING PRESSURE	PIPING IS BEING REPLACED UNDER A CONTROL PROCEDURE AND PROCUREMENT PROGRAM. CAUSE OF FAILURE IS PIPE DEGRADATION DUE TO THE CORROSIVE NATURE OF THE SYSTEM AND HIGH FLUID VELOCITY.
** MWO 1-91-3185 1P41 PIPING	REPLACE THE PSW MINIMUM FLOW PIPING FROM THE PSW PUMP DISCHARGE HEADER TO THE INLET OF VALVES 1P41-F208B AND 1P41-FB91B, AND ASSOCIATED TUBING AND FITTINGS DOWNSTREAM OF 1P41-FB91B.	SURFACE OPERATING PRESSURE	PIPING REPLACED UNDER APPROVED PROCEDURES AND PROCUREMENT PROGRAM FAILURE DUE TO CORROSIVE NATURE OF SYSTEM AND HIGH FLUID VELOCITY.
** MWO 1-91-3518 R-1 1E21-F036B CHECK VALVE	INBODY SEAT AND DISC WERE FOUND TO BE PITTED AND SCARRED. MACHINE SEAT AND DISC TO REMOVE INDICATIONS.	VISUAL AND SURFACE	SEAT AND DISC WERE MACHINED TO REMOVE INDICATIONS. NORMAL WEAR FOR CONDITIONS.

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COMPONENT	DESCRIPTION	TEST	REMARKS
** MWO 1-91-3522 R/R1 1P41-F552A CHECK VALVE	CHECK VALVE INTERNALS ARE WORN AND DETERIORATED. REPLACE WITH AN APPROVED VALVE.	CHECK FOR LEAKS AT PRESSURE	VALVE WAS REPLACED WITH A COMMERCIAL UPGRADED VALVE UNDER AN APPROVED UPGRADE PROGRAM. CAUSE OF FAILURE IS NORMAL FOR THE HARSH CONDITIONS SEEN BY THE VALVE. (RIVER WATER)
** MWO 1-91-3522 R/R2 1P41-F552A CHECK VALVE	CHECK VALVE INTERNALS WERE FOUND WORN AND DETERIORATED. NO NEW VALVE IS AVAILABLE SO VALVE SEAL MUST BE BUILT UP AND MACHINED.	SURFACE AND OPERATING PRESSURE	REPAIRS TO VALVE BODY AND SEAL AREA WILL BE PERFORMED UNDER CONTROLLED WELDING PROCEDURES AND MACHINED. CAUSE OF FAILURE IS OPERATION IN A HARSH ENVIRONMENT. (RIVER WATER)
** MWO 1-91-3549 1T41-B003A HEAT EXCHANGER	NELSON STUDS THAT TIGHTEN THE COOLER HEAD TO THE FLANGE WERE FOUND TO BE DETERIORATED. REPLACE BY STUD WELDING.	CHECK FOR LEAKS AT PRESSURE	STUDS WERE REPLACED WITH NEW STUDS, USING AN APPROVED WELDING PROCEDURE. CAUSE OF FAILURE IS EXTENDED USE IN HARSH ENVIRONMENT.
** MWO 1-91-3550 1T41-B003B HEAT EXCHANGER	NELSON STUDS ON HEAT EXCHANGER ARE DETERIORATED. WELD NEW STUDS ON.	CHECK FOR LEAKS AT PRESSURE.	NEW STUDS WERE WELDED ON WITH AN APPROVED WELDING PROCEDURE. STUDS ARE NOT REQUIRED TO BE ASME MATERIAL.
** MWO 1-91-3553 1T41-B005A COOLER	NELSON STUDS AFFIXED TO COOLER TUBE SHEETS HAVE ERODED AND FALLEN OFF IN SOME CASES. REPLACE STUDS.	CHECK FOR LEAKAGE DURING OPER.	STUDS WERE REPLACED WITH SAME APPROVED STUD WELDING PROCEDURE AND MATERIALS. CAUSE OF FAILURE IS HARSH ENVIRONMENT OPERATION (RIVER WATER)
** MWO 1-91-3554 1T41-B005B COOLER	NELSON STUDS AFFIXED TO COOLER TUBE SHEETS HAVE ERODED AND IN SOME CASES FALLEN OFF. REPLACE STUDS.	CHECK FOR LEAKS DURING OPER.	STUDS ARE BEING REPLACED WITH APPROVED ASME STUD WELDING PROCEDURE AND MATERIAL. CAUSE OF FAILURE IS DUE TO EXPOSURE TO HARSH ENVIRONMENT (RIVER WATER)
** MWO 1-91-3668 1B11-D146 CONTROL ROD DRIVES	REPLACE CRD FLANGE BOLTS WHICH WERE FOUND TO HAVE REJECTABLE INDICATIONS, WITH NEW BOLTS.	INSPECT DURING VESSEL P.T.	BOLTS ARE EXACT REPLACEMENT IN KIND. INDICATIONS ON BOLTING IS EXPECTED. NOT ALL BOLTS HAD INDICATIONS.
** MWO 1-91-4227 1E11-F068A VALVE	REPLACE VALVE WITH NEW ONE	SURFACE, HYDRO, PRESSURE TEST	REPLACEMENT DUE TO INABILITY TO PROVIDE EXACT REPLACEMENT IN KIND. (VALVE NO LONGER MANUFACTURED) VALVE HAS BEEN SUBJECTED TO HIGH VIBRATION AND CORROSION OVER THE LIFE OF THE VALVE.
** MWO 1-91-4311 1E11-F068B VALVE	REPLACE PIPING AND VALVE WITH NEW MATERIALS. DCR1-H90-126	HYDRO AND OPERATING PRESSURE	VALVE HAS BEEN SUBJECTED TO HIGH VIBRATION AND CORROSION OVER A PERIOD OF YEARS. EXACT IN KIND REPLACEMENT NOT AVAILABLE. VALVE AND PIPING WERE INSTALLED UNDER AN APPROVED DCR.
** MWO 1-91-4472 1E11-F003B 16" GATE VALVE	REPLACE SEAT RING IN VALVE.	CHECK FOR LEAKS AT PRESSURE	SEAT RING WAS REPLACED UNDER AN APPROVED MAINTENANCE PROCEDURE. CAUSE OF FAILURE IS NORMAL WEAR. EXPECTED OVER A PERIOD OF TIME.
** MWO 1-91-4713 1P41-SWH- 2B1A SUPPORT	MODIFY PLANT SERVICE WATER SUPPORT PER DCR 1H90-007.	SURFACE	SUPPORT WAS MODIFIED PER DCR 1H-90-007
** MWO 1-91-4799 1B21 MSRV PIPE SUPPORTS	MODIFY PIPE SUPPORTS TO SATISFY ASME CODE REQUIREMENTS	SURFACE	A/E SUPPLIED DESIGN IN ACCORDANCE WITH ASME SECTION III NF



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COMPONENT	DESCRIPTION	TEST	REMARKS
** MWO 1-91-4832 1B31 & 1E11 PIPING	OVERLAY WELDS FOUND BY ISI AS REQUIRED. OVERLAYS ARE FOR STRUCTURAL INTEGRITY OF PIPING FOUND TO CONTAIN IGSCC.	SYSTEM LEAKAGE TEST AT S/U	REPAIRS ARE BEING MADE IN ACCORDANCE WITH NUREG 0313 REV. 2 AND GENERIC LETTER 88-01. OVERLAYS ARE NOT CODE REPAIRS BUT PERFORMED UNDER NRC CONCURRENCE. CAUSE OF FAILURE (IGSCC)
** MWO 1-91-4894 1P41-F1246 REGULATING VALVE	REPLACE VALVES WITH CLASS 3 VALVES.	CHECK FOR LEAKS AT PRESSURE	VALVES ARE BEING REPLACED AS A RESULT OF SOR 1-90-290. UPGRADING OF VALVES IS ALL THAT IS BEING DONE. NO SERVICE INDUCED FAILURE INVOLVED
** MWO 1-91-4895 1P41-F1246 REGULATING VALVES	REPLACE VALVES WITH CLASS 3 VALVES. CURRENT VALVES ARE B31.1.	CHECK FOR LEAKAGE AT PRESSURE	VALVES ARE BEING REPLACED AS A RESULT OF SOR 1-90-290 AND ARE BEING UPGRADED PER PLANT PROCEDURES AND PROCUREMENT PROGRAM. NO SERVICE INDUCED FAILURE INVOLVED.
** MWO 1-91-4961 1E41-F008 VALVE	DRILL NEW GUIDE PIN HOLES 2" AWAY FROM EXISTING HOLES PROVIDED. THE NEW HOLES ARE DRILLED ON SAME CENTER LINE AS EXISTING HOLES.	N/A	METHOD OF REPAIR IS APPROVED BY VENDOR. GUIDE PIN HOLES HAVE WORN OVER A PERIOD OF TIME.
** MWO 1-91-5187 1P41 PIPING	REPLACE THE SEVEN EXISTING ORIFICE PLATES LOCATED IN THE 6" PSW SUPPLY LINES TO DIESEL GENERATORS 1(A,B,C,) WITH THICKER ORIFICE PLATES.	OPERATING PRESSURE TEST.	THE EXISTING ORIFICE PLATES ARE TOO THIN FOR THE INTENDED FUNCTION. THE REPLACEMENTS ARE THICKER AND WILL PERFORM THE INTENDED FUNCTION. WORK PERFORMED UNDER AN APPROVED DCR 1H-90-098
** MWO 1-91-5188 1P41 PIPING	REPLACE THE SEVEN EXISTING ORIFICE PLATES LOCATED IN THE 6" PSW LINE THAT SUPPLIES COOLING WATER TO THE DIESELS 1(A,B,C,) WITH THICKER ORIFICE PLATES. DCR 1H90-098	OPERATING PRESSURE TEST.	EVALUATION SHOWED THAT THE EXISTING ORIFICE PLATES WERE TOO THIN FOR THEIR INTENDED FUNCTION. CHANGES WERE MADE UNDER AN APPROVED DCR.
** MWO 1-91-5189 R/R1 1P41 PIPING	REPLACE THE EXISTING 6" CARBON STEEL FLANGES THAT INTERFACE WITH THE BACKWASH NOZZLES ON THE PSW STRAINERS D103A&B, WITH 6" STAINLESS STEEL FLANGES IN ORDER TO ELIMINATE DISSIMILAR WELDS WITH SS.	SURFACE, HYDRO	THE EXISTING CARBON STEEL FLANGES ARE WELDED TO SS PIPE THAT COULD POTENTIALLY CAUSE GALVANIC CORROSION. REPLACING WITH SS FLANGES WOULD ELIMINATE THIS CONCERN.
** MWO 1-91-5189 R/R2 1P41 PIPING	REPLACE THE EXISTING CARBON STEEL FLANGES WITH STAINLESS STEEL. THESE FLANGES INTERFACE WITH THE BACKWASH NOZZLES ON THE PSW STRAINERS D103A&B. PURPOSE IS GET RID OF DISSIMILAR WELDS.	SURFACE AND HYDRO	THE CARBON STEEL FLANGES ARE WELDED TO STAINLESS STEEL THAT COULD POTENTIALLY CAUSE GALVANIC CORROSION. REPLACING WITH SS WILL ELIMINATE THIS CONCERN.
** MWO 1-91-5190 1P41 PIPE	REPLACE THE EXISTING 6" FLANGES THAT INTERFACE WITH THE BACKWASH NOZZLES ON PSW STRAINERS D103A&B WITH STAINLESS STEEL FLANGES IN ORDER TO ELIMINATE DISSIMILAR WELDS WITH THE ADJACENT S.S. PIPE.	SURFACE OPERATING PRESSURE	THE EXISTING C.S. FLANGES ARE WELDED TO THE S.S. PIPING THAT COULD POTENTIALLY CAUSE GALVANIC CORROSION. THE REPLACEMENT S.S. FLANGES ARE MORE SUITABLE AND RELIABLE BECAUSE THEY ELIMINATE THIS CONCERN.



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COMPONENT	DESCRIPTION	TEST	REMARKS
** MWO 1-91-5233 1P41 PIPING	JUMPER CONNECTIONS ARE BEING INSTALLED TO FACILITATE BYPASSING SAFETY RELATED HEAT EXCHANGERS DURING CHEMICAL CLEANING OF PSW PIPING.	SURFACE AND HYDRO.	REPLACEMENT OF EXISTING PIPING WITH CODE QUALIFIED PIPING AND MATERIALS IS ACCEPTABLE. CAUSE OF DETERIORATION OF EXISTING PIPING IS DUE TO LONG SERVICE IN RIVER WATER ENVIRONMENT.
** MWO 1-91-5304 1E21-CS-H57 SNUBBER	REPLACE SNUBBER. INSTALLED SNUBBER IS LEAKING FLUID.	VT3/4	REPLACED SNUBBER. CAUSE OF FLUID LEAKAGE IS UNKNOWN AT THIS TIME.
** MWO 1-91-5327 1E11-RHR- H251 SNUBBER	INSTALLED SNUBBER IS LOW OF FLUID. FAILED VISUAL INSPECTION. REPLACE SNUBBER WITH NEW OR REBUILT SNUBBER FROM STOCK.	VT4	REBUILDING AND INSTALLATION OF SNUBBERS IS PERFORMED UNDER AN APPROVED SNUBBER REPAIR AND REPLACEMENT PROGRAM. CAUSE OF LOW FLUID IS UNKNOWN AT THIS TIME. PROBABLE CAUSE IS SEAL WEAR.
** MWO 1-91-5329 1E11-RHR- H250B SNUBBER	REPLACE SNUBBER. INSTALLED SNUBBER IS LEAKING FLUID.	VT 3/4	REPLACED SNUBBER. CAUSE OF FLUID LEAKING IS NOT KNOWN AT THIS TIME.
** MWO 1-91-5332 1P41 PIPE	SOCKET WELD FITTING DOES NOT HAVE FULL ENGAGEMENT. REPLACE WITH NEW PIPE.	HYDROSTATIC TEST.	PIPE WAS REPLACED WITH NEW MATERIAL AND PROPER ENGAGEMENT.
** MWO 1-91-5335 1E41-HPSI H- B5 SNUBBER	REPLACE SNUBBER WITH ON FROM STOCK (NEW OR REBUILT).	VT-4	SNUBBER REPLACED. CAUSE OF FAILURE IS NOT KNOWN AT THIS TIME. FAILED VISUAL INSPECTION. WILL TEST FOR FUNCTIONAL OPERABILITY AT A LATER DATE.
** MWO 1-91-5337 1E11-RHR- H192 SNUBBER	SNUBBER DID NOT PASS VISUAL INSPECTION. REPLACE WITH A NEW OR REBUILT SNUBBER FROM STOCK.	VT4	REPAIR AND REPLACEMENT OF SNUBBERS IS A CONTROLLED ACTIVITY USING APPROVED PROCEDURES. PROBABLE CAUSE OF FLUID LEAKAGE IS SEAL WEAR. SNUBBER DID NOT FAIL FUNCTIONAL TEST. (NOT AN INSERVICE FAILURE)
** MWO 1-91-5338 1E11-RHR- H286A SNUBBER	REPLACE SNUBBER. INSTALLED SNUBBER IS LEAKING FLUID.	VT3/4	REPLACED SNUBBER. CAUSE OF FLUID LEAKAGE IS UNKNOWN AT THIS TIME.
** MWO 1-91-5339 1E11-RHR H218 SNUBBER	REPLACE SNUBBER. INSTALLED SNUBBER IS LEAKING FLUID.	VT-3/4	REPLACED SNUBBER. CAUSE OF FLUID LEAKAGE IS UNKNOWN AT THIS TIME.
** MWO 1-91-5389 1B21-FO22C MSIV	VALVE FAILED LLRT.	VT-2 WILL BE PERFORMED.	REPAIRS ARE BEING PERFORMED UNDER AN APPROVED REPAIR PROCEDURE. REPLACEMENT PARTS ARE PROCURED UNDER AN APPROVED PROCUREMENT PROGRAM. CAUSE OF FAILURE IS NORMAL WEAR OVER A PERIOD OF TIME.
** MWO 1-91-5420 1E11-RHR- H224B SNUBBER	REPLACE SNUBBER. INSTALLED SNUBBER IS LEAKING FLUID.	VT 3/4	REPLACED SNUBBER. CAUSE OF LEAKING FLUID IS NOT KNOWN AT THIS TIME.
** MWO 1-91-5422 1B21-RC1C- SS42 SNUBBER	SNUBBER DID NOT PASS VISUAL INSPECTION. REPLACE WITH A NEW OR REBUILT SNUBBER FROM STOCK.	VT4	REPAIR AND REPLACEMENT OF SNUBBERS IS A CONTROLLED ACTIVITY USING APPROVED PROCEDURES. CAUSE OF FLUID LEAKAGE IS PROBABLY SEAL WEAR. SNUBBER PASSED FUNCTIONAL TEST. (NOT AN INSERVICE FAILURE)

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COMPONENT	DESCRIPTION	TEST	REMARKS
** MWO 1-91-5424 1B21-RC1C- SS-44 SNUBBER	SNUBBER IS LOW OF FLUID, REPLACE WITH NEW OR REBUILT SNUBBER FROM STOCK.	VT-4	REPAIR AND REPLACEMENT OF SNUBBERS IS A CONTROLLED ACTIVITY USING APPROVED PROCEDURES. CAUSE OF LOW FLUID LEVEL IS NOT KNOWN AT THIS TIME. PROBABLE CAUSE IS SEAL WEAR.
** MWO 1-91-5425 1B21-MVVH-32 SNUBBER	SNUBBER FAILED VISUAL INSPECTION, REPLACE WITH NEW OR REBUILT SNUBBER FROM STOCK.	VT4	REPAIR AND REPLACEMENT OF SNUBBERS IS PERFORMED UNDER AN APPROVED SNUBBER REPAIR AND REPLACEMENT PROGRAM. CAUSE OF LOW FLUID LEVEL IS UNKNOWN AT THIS TIME. PROBABLE CAUSE IS SEAL WEAR.
** MWO 1-91-5445 R/1 1B21-FO10A VALVE	BUILD UP WORN AREAS OF VALVE BODY IN PRESSURE SEAL AREA AND HINGE PIN CAVITIES.	SURFACE,VESSEL PRESSURE TEST	BUILDING BASE MATERIAL IS ACCEPTABLE REPAIR METHOD TO CORRECT NORMAL SERVICE WEAR.
** MWO 1-91-5454 1P41-ISH-33	REMOVE DAMAGED STRUT AND REPLACE WITH NEW ONE.	VT3/4	SUPPORT IS BEING REPLACED WITH EXACT IN KIND REPLACEMENT UNDER APPROVED PLANT PROCEDURE. CAUSE OF DAMAGE APPEARS TO BE EXCESSIVE PIPE MOVEMENT.
** MWO 1-91-5455 1P41-SDG- H4&H7 CANS	SPRING CANS ARE OUT OF DESIGN SETTING. RESET SPRING CANS TO DESIGN TOLERANCE.	VT3	RESETTING OF SPRING CANS IS WITHIN THE SKILL OF THE CRAFT. REINSPECTION BY ISI GROUP WILL BE PERFORMED AFTER SETTING. FAILURE IS EXPECTED DUE TO PIPE LOADING AND MOVEMENT.
** MWO 1-91-5456 1P41-SWH-19 HANGER	REPLACE BENT ROD ON HANGER	VT-3	NO NEW ROD COULD BE FOUND SO EXISTING ROD WAS STRAIGHTENED. CAUSE OF DAMAGE IS UNKNOWN AT THIS TIME.
** MWO 1-91-5457 1E11-RHRH-60 HANGER	RESET BEARING RACE AND STAKE.	VT-3	STAKING OF BEARING RACES IS A NORMAL REPAIR PROCESS FOR THIS TYPE FAILURE. CAUSE OF FAILURE IS PIPE MOVEMENT DURING OPERATION. FAILURE IS NOT UNEXPECTED. BEARING RACE STAKED.
** MWO 1-91-5475 1E11 RHR-SM3 & S-1 SNUBBER	SNUBBERS FAILED VISUAL INSPECTION. REPLACE WITH NEW OR REBUILT SNUBBERS FROM STOCK.	VT4	SNUBBERS WERE REPLACED UNDER AN APPROVED SNUBBER INSTALLATION AND REPAIR PROGRAM. CAUSE OF LOW FLUID IS UNKNOWN AT THIS TIME. PROBABLE CAUSE IS SEAL WEAR.
** MWO 1-91-5476 1E41-MS-SS20 SNUBBER	SNUBBER IS LOW OF FLUID. REPLACE WITH NEW OR REBUILT SNUBBER FROM STOCK.	VT4	REPAIR AND REPLACEMENT OF SNUBBERS IS PERFORMED UNDER A CONTROLLED AND APPROVED PROCEDURE. CAUSE OF LOW FLUID IS NOT KNOWN AT THIS TIME. PROBABLE CAUSE IS SEAL WEAR.
** MWO 1-91-5490 1B21 SNUBBERS	REPLACE THE FOLLO-ING SNUBBERS WITH NEW OR REBUILT SNUBBERS FROM STOCK:MVVH-2B,H-29, SS- 15, FDH-12A, FDH-11B.	VT4	REPAIR AND REPLACEMENT OF SNUBBERS IS PERFORMED UNDER AN APPROVED SNUBBER REPAIR AND REPLACEMENT PROGRAM. CAUSE OF FAILURE IS UNKNOWN AT THIS TIME, PROBABLE CAUSE IS SEAL LEAKAGE.
** MWO 1-91-5512 1B21-109- H016 SNUBBER	SNUBBER FAILED VISUAL INSPECTION. REPLACE WITH NEW OR REBUILT SNUBBER FROM STOCK.	VT4	REPAIR AND REPLACEMENT OF SNUBBERS IS PERFORMED UNDER AN APPROVED PROGRAM. CAUSE OF LOW FLUID IS UNKNOWN AT THIS TIME. PROBABLE CAUSE IS SEAL WEAR.

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COMPONENT	DESCRIPTION	TEST	REMARKS
** MWO 1-91-5514 1E11 RHR- 319A, RHR H- 307 SNUBB	REPLACE SNUBBER. INSTALLED SNUBBER IS LEAKING FLUID (R- 307). ADDITION OF WASHER TO PADDLE END OF H 317 IS NOT AN R/R CONCERN.	VT 3/4	REPLACED SNUBBER. CAUSE OF FLUID LEAKAGE IS NOT KNOWN AT THIS TIME.
** MWO 1-91-5529 1E51-F001 VALVE	VALVE FAILED LLRT. REPLACE STEM AND DISC.	CHECK FOR LEAKAGE AT PRESSURE	REPLACEMENT OF VALVE INTERNALS IS A NORMAL MAINTENANCE ACTIVITY PERFORMED UNDER APPROVED PROCEDURES. CAUSE OF FAILURE IS NORMAL WEAR.
** MWO 1-91-5550 1E11-RHR- 238A SNUBB	SNUBBER FAILED VISUAL TEST. REPLACE SNUBBER WITH NEW OR REBUILT SNUBBER FROM STOCK.	VT3/4	REPAIR AND REPLACEMENT OF SNUBBERS IS A CONTROLLED ACTIVITY USING APPROVED PROCEDURES. PROBABLE CAUSE OF LEAKAGE IS SEAL WEAR. SNUBBER PASSED ACTUATION TEST. (NOT A INSERVICE FAILURE)
** MWO 1-91-5578 R/R1 1E11-RHR- 313	SNUBBER FAILED FUNCTIONAL TEST. REPLACE WITH A NEW UNIT.	NA	THIS SNUBBER WAS REPLACED WITH A NEW UNIT. NO DAMAGE TO ADJACENT HANGERS WAS DETECTED. THIS SNUBBER HAD INTERNAL DAMAGE DUE TO A MISSING LOCK RING ALLOWING PARTS TO DISASSEMBLE. CAUSE UNKNOWN.
** MWO 1-91-5578 R/R2 1E51-RCSEH- 702	SNUBBER FAILED FUNCTIONAL TEST. REPLACE WITH A NEW UNIT.	NA	THIS SNUBBER WAS REPLACED WITH A NEW UNIT. NO DAMAGE WAS DETECTED TO ADJACENT HANGERS. SNUBBER WAS LOCKED UP ACCORDING TO TEST STAND, BUT NO INTERNAL DAMAGE WAS SEEN. SNUBBER WOULD MOVE BUT NOT FREELY.
** MWO 1-91-5603 1E11-F015B VALVE	REPLACE PLUG AND STEM ASSEMBLY DUE TO DEFECTIVE STEM.	N/A	CAUSE OF FAILURE IS NOT SERVICE INDUCED. EXCESSIVE PRESSURE PUT ON STEM IN ATTEMPT TO STOP LEAKAGE. MATERIAL USED IS EXACT REPLACEMENT IN KIND.
** MWO 1-91-5655 1P41 G001	THE WELD JOINT ON THE 1/2" SIDE OF THE 1-1/2" REDUCER WAS FOUND LEAKING BY VT-2 EXAMINER DURING ISI HYDRO.	OPERATING PRESSURE TEST	WELD WAS COMPLETELY REMOVED AND REWELDED.
** MWO 1-91-5798 1P41-D001A EXPANSION JOINT	THE 6" PSW LINE TO 1R43-S001C WILL BE CUT AND PIPE SUPPORT 1P41 SDG-H703 WILL BE CUT TO ALLOW FOR ALIGNMENT OF EXPANSION JOINT.	HYDRO OF EXPANSION JOINT	ALIGNMENT PROCESS IS BEING PERFORMED UNDER APPROVED ASME CODE PROCEDURES. CAUSE OF MISALIGNMENT IS UNKNOWN AT THIS TIME.
** MWO 1-91-5799 1P41-D003A EXPANSION JOINT	THE 6" PSW SUPPLY LINE TO 1R43-S001A WILL BE CUT AND PIPE SUPPORT 1P41-SDG-1702 WILL BE CUT TO ALLOW ALIGNMENT OF EXPANSION JOINT.	SURFACE AND HYDRO	ALIGNMENT OF THE EXPANSION JOINT IS A SUITABLE MEANS OF REPAIR. ALL WORK BEING PERFORMED UNDER APPROVED PROCEDURES AND CODE REQUIREMENTS. CAUSE OF MISALIGNMENT IS UNKNOWN AT THIS TIME.
** MWO 1-91-5805 1E11-B001A HEAT EXCHANGER	SUPPORT WELD HAS A SMALL LINEAR INDICATION. REPAIR AS NECESSARY.	SURFACE	INDICATION WAS REMOVED BY FLAPPING NO WELDING OR HEAVY GRINDING WAS REQUIRED TO REMOVE INDICATION. APPEARS TO BE INHERENT WELD INDICATION
** MWO 1-91-6110 1P41-F439A 1 1/2" VALVE	PLUG NOT SEATING PROPERLY IN BODY SEAT THUS DAMAGING THE PLUG SEATING SURFACE.	CHECK FOR LEAKS AT PRESSURE	NORMAL WEAR OF PARTS FOR THE TYPE SERVICE SEEN. PARTS REPLACED IN ACCORDANCE WITH APPROVED PROCEDURES. NORMAL MAINTENANCE.

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COMPONENT	DESCRIPTION	TEST	REMARKS
** MWO 1-91-6129 1E11-RHRH- 407 & 407A SUPPORTS	REALIGN PIPE CLAMPS AND STAKE BEARING RACE AND LUBRICATE ON H-407A RE-STAKE BEARING RACE ON H 407.	VT-3	REPAIRS OF THIS NATURE ARE ROUTINE MAINTENANCE ACTIVITIES. CAUSE OF FAILURE APPEARS TO BE HIGH HUMIDITY ENVIRONMENT AND PIPE MOVEMENT DURING SYSTEM OPERATION. FAILURES OF THIS TYPE ARE EXPECTED.
** MWO 1-91-6159 1P41-D137 PCV.	DISASSEMBLE/CLEAN AND REFURBISH REGULATOR AS NECESSARY TO ENSURE RELIABLE RESPONSE.	NONE	VALVE WAS REFURBISHED. NO PRESSURE RETAINING PARTS WERE USED DURING THE REFURBISHMENT. CAUSE OF FAILURE WAS DUE TO THE HARSH ENVIRONMENT SEEN BY THE VALVE.
** MWO 1-91-6264 1E11-RHR- 24B-R-7 PIPE	PERFORM CONTROLLED GRINDING TO REMOVE LINEAR INDICATION IN PIPE. IF MIN WALL IS VIOLATED REPAIR.	SURFACE(MT)	CONTROLLED GRINDING WAS PERFORMED TO REMOVE INDICATION. NO FURTHER REPAIR WORK WAS REQUIRED.
** MWO 1-91-6265 1E11 PIPE WELD.20A-D-4	REMOVE INDICATION FOUND BY MT DURING ISI EXAM. REWELD IF NECESSARY	SURFACE	GROUND OUT INDICATIONS. NO REWELDING REQUIRED. INDICATION WAS AN INHERENT INDICATION IN THE PIPE.
** MWO 1-91-6286 REV.1 1C41-F007 CHECK VALVE.	ROCKWELL CHECK VALVE WILL BE REPAIRED TO PASS LRT PRIOR TO INSTALLATION. TO REPLACE VELAN VALVE PRESENTLY INSTALLED.	SURFACE	VALVE WILL BE REPAIRED PRIOR TO INSTALLATION UNDER APPROVED PROCEDURE. CAUSE OF FAILURE IS USAGE IN HARSH ENVIRONMENT.
** MWO 1-91-6300 1P41 PIPE 4"CARBON STEEL	DURING HYDRO PIPE LEAKED AT 4" BRANCH CONNECTION BETWEEN 8" HEADER AND 1P41-F059. PIPING WILL BE CUT AND A DETERMINATION OF HOW MUCH PIPING WILL NEED TO BE REPLACED.	SURFACE AND HYDRO.	REPLACEMENT PIPING WILL BE OF EXACT MATERIAL AS EXISTING MATERIAL. CAUSE OF FAILURE IS DUE TO CORROSIVE NATURE OF RIVER WATER. HANGER P41-SWH-271 WILL BE REPLACED AT THIS TIME.
** MWO 1-91-6368 1B31-FDH-17 & SSA7 SNUBBERS	REPAIR BEARINGS IN ABOVE STATED SNUBBERS	VT4	REPAIRING SNUBBERS IS PERFORMED UNDER AN APPROVED REPAIR AND REPLACEMENT PROGRAM. REASON FOR BEARING SLIPPAGE IS UNKNOWN AT THIS TIME. PROBABLE CAUSE IS WEAR AND SYSTEM MOVEMENT.
** MWO 1-91-6395 1E11-B001A HEAT EXCHANGER	LINEAR INDICATION FOUND ON HEAT EXCHANGER SHELL. GROUND OUT TO APP. 1/8" DEEP AND REWELDED.	INSPECT AT OPERATING PRESSURE	THIS TYPE REPAIR IS IN COMPLIANCE WITH CODE ALLOWABLE REPAIRS. THREE INDICATIONS FOUND IN AREA OF SUPPORT BRACKET. ALL INDICATIONS WERE SHALLOW AND SHORT IN LENGTH.
** MWO 1-91-6406 1E51-RCSEH- 702 SNUBBER	REPLACE WORN STRUT ON 1E51- RCSEH-702 WITH NEW STRUT.	VT3	THE TWO STRUTS ARE OF THE SAME CAPACITY AND SIMILAR DESIGN AND ARE FUNCTIONALLY INTERCHANGEABLE. THE WORN STRUT IS OF A TYPE NO LONGER IN USE AT HATCH. WEAR WAS DUE TO NORMAL OPERATION.
** MWO 1-91-6468 1B21-FDH-10 HANGER	SUPPORT HAS SEVERAL MAINTENANCE PROBLEMS, BENT PADDLE, LOOSE PADDLE, LOOSE JAM NUT, FROZEN BEARING, AND PADDLE NOT CENTERED.	VT3	EXACT REPLACEMENT IN KIND FOR PARTS USED. HANGER WAS REPAIRED IN ACCORDANCE WITH APPROVED MAINTENANCE PROCEDURE. CAUSE OF FAILURE IS UNKNOWN BUT APPEARS THAT SUPPORT MAY NOT HAVE BEEN CENTERED.
** MWO 1-91-6476 R/R1 1E41-SS-42 SNUBBER	THIS SNUBBER HAD A DRAG VALUE OF 0.7% ABOVE ACCEPTABLE. THIS IS A PROCEDURAL CONSTRAINT.	N/A	THIS SNUBBER WAS REPLACED WITH AN IDENTICAL TYPE SIZE REBUILT UNIT. THIS PROBLEM IS CAUSED BY NORMAL WEAR.

REPAIR AND REPLACEMENT FILES  
UNIT 1 1991

COMPONENT	DESCRIPTION	TEST	REMARKS
** MWO 1-91-6476 R/R2 1B21-SS-45 SNUBBER	ACCUMULATOR BOLTS WERE LOOSENED AFTER REMOVAL FROM SERVICE THUS ALLOWING FLUID TO LEAK OUT.	N/A	THIS SNUBBER WAS REPLACED WITH AN IDENTICAL TYPE AND SIZE REBUILT UNIT. THIS WAS NOT A SERVICE INDUCED CONDITION AND IS THEREFORE NOT PART OF R/R.
** MWO 1-91-6478 1E41-HPSEH 83 SNUBBER	SNUBBER HAS A DRAG VALUE OF 1.0% ABOVE ACCEPTANCE. THIS IS A PROCEDURAL CONSTRAINT.	N/A	THE SNUBBER WAS REPLACED WITH IDENTICAL SIZE AND TYPE REBUILT UNIT. CAUSE OF FAILURE IS NORMAL WEAR.
** MWO 1-91-6504 1C11 HANGER	ADJUST HANGER UNTIL HANGER CLEVIS CONTACTS PIPE SERVICE.	VT-4	HANGER ADJUSTMENT IS WITHIN THE SKILL OF THE CRAFT. CAUSE OF LOOSE CLAMP IS UNKNOWN AT THIS TIME. PROBABLE CAUSE IS SYSTEM MOVEMENT.
** MWO 1-91-6877 1P41-F1074 CHECK VALVE	WATER LEAKING FROM HINGE PIN PLUG. FABRICATE AND INSTALL NEW PLUG.	CHECK FOR LEAKS AT PRESSURE	PLUG WAS FABRICATED FROM STOCK MATERIAL OF THE SAME MATERIAL AS ORIGINAL PLUG. CODE MATERIAL. CAUSE OF FAILURE IS LONG SERVICE IN HARSH RIVER WATER ENVIRONMENT.