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 Cutage 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
RCIC	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.

TOTAL NUMBER OF SHEETS 104

FORM NIS-1

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:

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

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 (Back)

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 [illegible] 19 92 Signed Georgia Power Company By [illegible]

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

D.R. Foulds Commissions Georgia-GA00115

Inspector's Signature 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

System	Class	Test Required
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 RWCU 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 Invessel 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 NUREG 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

Identification	Indication	Corrective Action
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

Identification	Indication	Corrective Action
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

Identification	Indication	Corrective Action
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 PROCED. REV	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS		REMARKS
RPV EXAMINATIONS								
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 NRI	UT CAL	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- 012-0S	N/A				EXAM PERFORMED BY GPC QC DEPT.
-- -- NUREG-0313D	-	N2A (RINTSA) RINTSA WELD	UT-H-415/05	125-H	S91H1C169 S91H1U231	N/A NRI	UT CAL	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 NRI	UT CAL	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 NRI N/A NRI N/A NRI	UT CAL UT CAL UT CAL 	ONE-SIDED EXAM DUE TO NOZZLE 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
	RPV EXAMINATIONS							
-- -- NUREG-0313D	-	N2B (RINTSA) RINTSA WELD	UT-H-415/05	125-H	S91H1C170 S91H1U232	N/A NRI	UT CAL	N/A
-- -- NUREG-0313D	-	N2C (RINTSA) RINTSA WELD	UT-H-415/05	125-H	S91H1C171 S91H1U233	N/A NRI	UT CAL	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 NRI	UT CAL	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 NRI N/A NRI N/A NRI	UT CAL UT CAL UT CAL 	ONE-SIDED EXAM DUE TO NOZZLE CONFIGURATION.
-- -- NUREG-0313D	-	N2D (RINTSA) RINTSA WELD	UT-H-415/05	125-H	S91H1C172 S91H1U234	N/A NRI	UT CAL	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 NRI	UT CAL	EXAM LIMITATION DUE TO WELDED PAD, 93% COVERAGE.

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
	RPV EXAMINATIONS							
B3.90	A-1/04	N2E (N-SH)	UT-H-410/04	61-H	S91H1C117	N/A	UT CAL	ONE-SIDED EXAM DUE TO NOZZLE
B-D		B LOOP RECIRCULATION			S91H1U169	NRI		CONFIGURATION.
ASME		INLET NOZZ TO SHELL			S91H1C120	N/A	UT CAL	
					S91H1U173	NRI		
					S91H1C123	N/A	UT CAL	
					S91H1U177	NRI		
--	-	N2E (RINTSA)	UT-H-415/05	125-H	S91H1C173	N/A	UT CAL	N/A
--		RINTSA WELD			S91H1U235	NRI		
NUREG-0313D								
--	-	N2G (RINTSA)	UT-H-415/05	125-H	S91H1C174	N/A	UT CAL	N/A
--		RINTSA WELD			S91H1U236	NRI		
NUREG-0313D								
--	A-1/04	N4A (CYL BORE)	UT-H-481/01	61-H	S91H1C016	N/A	UT CAL	N/A
--		STRAIGHT CYLINDRICAL			S91H1U043	NRI		
NUREG-0619		BORE SECTION			S91H1C017	N/A	UT CAL	
					S91H1U044	NRI		
					S91H1C030	N/A	UT CAL	
					S91H1U058	NRI		
B3.100	A-1/04	N4A (IR)	UT-H-480/04	61-H	S91H1C026	N/A	UT CAL	EXAM LIMITATION DUE TO
B-D		A-A LOOP FEEDWATER			S91H1U054	NRI		NOZZLE N12A INTERFERENCE,
NUREG-0619		INLET NOZZLE IR						90% COVERAGE.
--	A-1/04	N4A SPARGERS	VT-H-755/02	N/A	S91H1V203	SAT		N/A
--		A-A LOOP FEEDWATER						
NUREG-0619		INLET NOZZLE						

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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
		RPV EXAMINATIONS						
--	A-1/04	N4B (CYL BORE)	UT-H-481/01	61-H	S91H1C018	N/A	UT CAL	ZONE "A" EXAM LIMITATION DUE
--		STRAIGHT CYLINDRICAL			S91H1U045	NRI		TO THERMOCOUPLES WELDED TO
NUREG-0619		BORE SECTION			S91H1C019	N/A	UT CAL	BARPEL, 95% COVERAGE.
					S91H1U046	NRI		
					S91H1C031	N/A	UT CAL	
					S91H1U059	NRI		
B3.100	A-1/04	N4B (IR)	UT-H-480/04	61-H	S91H1C027	N/A	UT CAL	N/A
B-D		A-B LOOP FEEDWATER			S91H1U055	NRI		
NUREG-0619		INLET NOZZLE IR						
--	A-1/04	N4B SPARGERS	VT-H-755/02	N/A	S91H1V203	SAT		N/A
--		A-B LOOP FEEDWATER						
NUREG-0619		INLET NOZZLE						
--	A-1/04	N4C (CYL BORE)	UT-H-481/01	61-H	S91H1C020	N/A	UT CAL	N/A
--		STRAIGHT CYLINDRICAL			S91H1U047	NRI		
NUREG-0619		BORE SECTION			S91H1C032	N/A	UT CAL	
					S91H1U060	NRI		
					S91H1C021	N/A	UT CAL	
					S91H1U065	NRI		
B3.100	A-1/04	N4C (IR)	UT-H-480/04	61-H	S91H1C028	N/A	UT CAL	EXAM LIMITATION DUE TO
B-D		B-C LOOP FEEDWATER			S91H1U056	NRI		NOZZLE N12B INTERFERENCE,
NUREG-0619		INLET NOZZLE IR						90% COVERAGE.
--	A-1/04	N4C SPARGERS	VT-H-755/02	N/A	S91H1V203	SAT		N/A
--		B-C LOOP FEEDWATER						
NUREG-0619		INLET NOZZLE						

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
	RPV EXAMINATIONS							
--	A-1/04	N4D (CYL BORE)	UT-H-481/01	61-H	S91H1C033	N/A	UT CAL	ZONE "A" EXAM LIMITATION DUE
--		STRAIGHT CYLINDRICAL			S91H1U061	NRI		TO WELDED THERMOCOUPLES.
NUREG-0619		BORE SECTION			S91H1C037	N/A	UT CAL	95% COVERAGE.
					S91H1U066	NRI		
					S91H1C036	N/A	UT CAL	
					S91H1U067	NRI		
B3.100	A-1/04	N4D (IR)	UT-H-480/04	61-H	S91H1C029	N/A	UT CAL	N/A
B-D		B-D LOOP FEEDWATER			S91H1U057	NRI		
NUREG-0619		INLET NOZZLE IR						
--	A-1/04	N4D SPARGERS	VT-H-755/02	N/A	S91H1V203	SAT		N/A
--		B-D LOOP FEEDWATER						
NUREG-0619		INLET NOZZLE						
--	A-1/04	N5A	VT-H-755/02	N/A	S91H1V199	SAT		N/A
--		A LOOP CORE SPRAY						
IEB 80-13		INLET NOZZLE						
--	A-1/04	N5B	VT-H-755/02	N/A	S91H1V199	SAT		N/A
--		B LOOP CORE SPRAY						
IEB 80-13		INLET NOZZLE						
B3.100	A-2/03	N6A (IR)	UT-H-480/04	64-H	S91H1C047	N/A	UT CAL	N/A
B-D		A LOOP RHR HEAD			S91H1U082	NRI		
ASME		SPRAY NOZZLE IR						

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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
	RPV EXAMINATIONS							
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 NRI N/A NRI N/A NRI	UT CAL UT CAL UT CAL 	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 NRI	UT CAL 	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 NRI N/A NRI N/A NRI	UT CAL UT CAL UT CAL 	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 S01H1V206 S91H1V207	SAT SAT SAT SAT SAT SAT SAT SAT SAT SAT		

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
	RPV EXAMINATIONS							
-- -- SIL-462	- -	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 NRI	UT CAL GEOMETRY UT CAL UT CAL	EXAMINED 1 ACCESS HOLE COVER.
	FEEDWATER SYSTEM							
B9.11 B-J NUREG-0619	A-10/04	1B21-1FW-12AA-15 PIPE TO TRANSITION PIECE	MT-H-500/05 UT-H-400/10	148-H	S91H1M030 S91H1C005 S91H1U031	NRI N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0619	A-10/04	1B21-1FW-12AA-16 TRANSITION PIECE TO NOZZLE	MT-H-500/05 UT-H-400/10	148-H	S91H1M031 S91H1C011 S91H1U038	NRI N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0619	A-11/04	1B21-1FW-12AB-9 PIPE TO TRANSITION PIECE	MT-H-500/05 UT-H-400/10	148-H	S91H1M023 S91H1C006 S91H1U032	NRI N/A RI	UT CAL GEOMETRY	N/A
B9.11 B-J NUREG-0619	A-11/04	1B21-1FW-12AB-10 TRANSITION PIECE TO NOZZLE	MT-H-500/05 UT-H-400/10	148-H	S91H1M024 S91H1C008 S91H1U035	NRI N/A NRI	UT CAL	EXAM LIMITATION UPSTREAM DUE TO THERMOCOUPLE. 90% COVERAGE.
B9.11 B-J NUREG-0619	A-12/04	1B21-1FW-12BC-9 PIPE TO TRANSITION PIECE	MT-H-500/05 UT-H-400/10	148-H	S91H1M025 S91H1C004 S91H1U030	NRI N/A RI	UT CAL GEOMETRY	N/A
B9.11 B-J NUREG-0619	A-12/04	1B21-1FW-12BC-10 TRANSITION PIECE TO NOZZLE	MT-H-500/05 UT-H-400/10	148-H	S91H1M026 S91H1C009 S91H1U036	NRI N/A RI	UT CAL GEOMETRY	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
	FEEDWATER SYSTEM							
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	NRI N/A RI	 UT CAL 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	NRI N/A NRI	 UT CAL 	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	NRI N/A NRI N/A NRI N/A	 UT CAL UT CAL 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	NRI		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	NRI		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	NRI N/A RI N/A RI	 UT CAL GEOMETRY UT CAL GEOMETRY	ONE-SIDED EXAM DUE TO VALVE 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
	FEEDWATER SYSTEM							
B10.10 B-K-1 ASME	A-9/06	1B21-1FW-18B-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	1B21-1FW-18B-10 PIPE TO ELBOW	MT-H-500/05 UT-H-400/10	77-H	S91H1M045 S91H1C124 S91H1U178	NRI N/A RI	 UT CAL GEOMETRY	N/A
	MAIN STEAM SYSTEM							
B9.11 B-J ASME	A-4/05	1B21-1MS-24A-1 NOZZLE TO TRANSITION PIECE	MT-H-500/05 UT-H-400/10	12-H	S91H1M029 S91H1C025 S91H1U052	NRI N/A NRI	 UT CAL 	N/A
B10.10 B-K-1 ASME	A-4/05	1B21-1MS-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	1B21-1MS-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	1B21-1MS-24D-BPS-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	1B21-1MS-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	 UT CAL GEOMETRY UT CAL GEOMETRY	ONE SIDED EXAM DUE TO VALVE 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
		MAIN STEAM SYSTEM						
B9.11	A-7A/01	1B21-1MS-24D-17	MT-H-500/05	147-H	S91H1M042	NRI		ONE SIDED EXAM DUE TO VALVE
B-J		VALVE TO PIPE	UT-H-400/10		S91H1C100	N/A	UT CAL	CONFIGURATION.
ASME					S91H1U151	NRI		
					S91H1C102	N/A	UT CAL	
					S91H1U153	RI	GEOMETRY	
		RECIRC. SYSTEM						
B5.10	A-39/00	1B31-1RC-4JP-B-1	PT-H-600/03	120-H	S91H1P026	NI		N/A
B-F		N8B NOZZLE TO	UT-H-409/07	121-H	S91H1C166	N/A	UT CAL	
NUREG-0313D		SAFE-END			S91H1U228	NRI		
					S91H1C167	N/A	UT CAL	
					S91H1U229	NRI		
					S91H1C168	N/A	UT CAL	
					S91H1U229	NRI		
					S91H1U224	N/A	THICKNESS	
B9.11	A-39/00	1B31-1RC-4JP-B-2	PT-H-600/03	80-H	S91H1P027	NI		ONE-SIDED EXAM DUE TO
B-J		SAFE-END TO	UT-H-400/10		S91H1C096	N/A	UT CAL	CONFIGURATION.
NUREG-0313D		PENETRATION SEAL			S91H1U147	NRI		
					S91H1C097	N/A	UT CAL	
					S91H1U148	NRI		
					S91H1U223	N/A	THICKNESS	
B9.11	A-18/03	1B31-1RC-12AR-F-1	PT-H-600/03	17-H	S91H1P015	NRI		ONE-SIDED EXAM DUE TO BRANCH
B-J		B-C TO PIPE	GE-UT-208/1		C-012	N/A	UT CAL	CONNECTION CONFIGURATION.
NUREG-0313C					D-021	NRI		
					D-022	NRI		
					C-013	N/A	UT CAL	
					D-023	RI	GEOMETRY	

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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
	RECIRC. SYSTEM							
B9.12 B-J NUREG-0313A	A-18/03	1B31-1RC-12AR-F-1LD LONG SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/03 UT-H-400/10	17-H	S91H1P016 S91H1C092 S91H1U142	NRI N/A NRI	UT CAL	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 NRI NRI	UT CAL	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 NRI	UT CAL	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 NRI	UT CAL	N/A
B5.10 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 NRI N/A NRI N/A NRI N/A NRI N/A NRI	UT CAL UT CAL UT CAL UT CAL UT CAL	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 NRI	UT CAL	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
	RECIRC. SYSTEM							
B9.11	A-18/03	1B31-1RC-12AR-G-4	PT-H-600/03	17-H	S91H1P020	NRI		SEE INF # I91H1018.
B-J		PIPE TO SAFE-END	UT-H-400/10		S91H1P074	NRI		
NUREG-0313F			UT-H-800/02		S91H1C161	N/A	UT CAL	
					S91H1U221	NRI		
					S91H1C162	N/A	UT CAL	
					S91H1U222	RI	LINEAR IND.	
					S91H1C196	N/A	UT CAL	
					S91H1U261	NRI		
					S91H1C205	N/A	UT CAL	
					S91H1U273	NRI		
					S91H1U369	N/A	THICKNESS	
B9.11	A-18/03	1B31-1RC-12AR-G-4	PT-H-600/03	134-H	S91H1P083	NRI		N/A
B-J		PIPE TO SAFE-END	UT-H-408/03		S91H1C285	N/A	UT CAL	
NUREG-0313E		OVERLAY	UT-H-808/02		S91H1U405	NRI		
					S91H1C287	N/A	UT CAL	
					S91H1U407	NRI		
					S91H1C288	N/A	UT CAL	
					S91H1U408	NRI		
					S91H1U418	N/A	THICKNESS	
					S91H1U419	N/A	THICKNESS	
					S91H1U386	N/A	THICKNESS	
B5.10	A-18/03	1B31-1RC-12AR-G-5	PT-H-600/03	85-H	S91H1P021	NRI		N/A
B-F		SAFE-END TO NOZZLE	UT-H-810/01	31-H	S91H1C211	N/A	JT CAL	
NUREG-0313C					S91H1U281	NRI		
					S91H1C212	N/A	UT CAL	
					S91H1U282	NRI		
					S91H1C213	N/A	UT CAL	
					S91H1U283	NRI		

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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-12AR-H-2 PIPE TO ELBOW OVERLAY	GE-UT-212/1	134-H	C-026 D-044 D-045	N/A NRI NRI	UT CAL	NO CIRC. 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	85-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	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
	RECIRC. SYSTEM							
B9.11	A-18/03	1B31-1RC-12AR-J-1	PT-H-600/03	17-H	S91H1P010	NRI		ONE-SIDED EXAM DUE TO BRANCH
B-J		B-C TO PIPE	UT-H-400/10		S91H1C186	N/A	UT CAL	CONNECTION CONFIGURATION.
NUREG-0313C			GE-UT-208/1		S91H1U251	NRI		
					S91H1C187	N/A	UT CAL	
					S91H1U252	NRI		
					C-014	N/A	UT CAL	
					D-024	NRI		
					D-025	NRI		
					C-015	N/A	UT CAL	
					D-026	RI	GEOMETRY	
B9.11	A-18/03	1B31-1RC-12AR-J-3	UT-H-808/02	134-H	S91H1C261	N/A	UT CAL	LINEAR INDICATIONS FOUND.
B-J		ELBOW TO PIPE			S91H1U359	RI	LINEAR IND.	ACCEPTABLE AS IS PER
NUREG-0313E		OVERLAY			S91H1U376	N/A	IND EVAL	GPC ENGINEERING.
					S91H1U358	N/A	SIZING	SEE INF I91H1021.
B9.11	A-18/03	1B31-1RC-12AR-K-1	PT-H-600/03	17-H	S91H1P009	NRI		ONE-SIDED EXAM DUE TO BRANCH
B-J		B-C TO PIPE	GE-UT-208/1		C-018	N/A	UT CAL	CONNECTION CONFIGURATION.
NUREG-0313C					D-031	NRI		
					D-032	NRI		
					C-019	N/A	UT CAL	
					D-033	RI	GEOMETRY	
B9.12	A-18/03	1B31-1RC-12AR-K-1LD	PT-H-600/03	17-H	S91H1P008	NRI		N/A
B-J		LONGITUDINAL SEAM	UT-H-400/10		S91H1C091	N/A	UT CAL	
NUREG-0313A		WELD EXTENDING			S91H1U141	NRI		
		DOWNSTREAM						
B9.11	A-18/03	1B31-1RC-12AR-K-2	[illegible]-UT-212/1	134-H	C-027	N/A	UT CAL	N/A
B-J		PIPE TO ELBOW			D-046	NRI		
NUREG-0313E		OVERLAY			D-047	NRI		

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
RECIRC. SYSTEM								
B9.11	A-18/03	1B31-1RC-12AR-K-3	UT-H-808/02	134-H	S91H1C241	N/A	UT CAL	N/A
B-J		ELBOW TO PIPE			S91H1U317	NRI		
NUREG-0313E		OVERLAY						
B9.11	A-19/03	1B31-1RC-12BR-A-4	PT-H-600/03	17-H	S91H1P022	NRI		SEE IN[illegible] [illegible] 18.
B-J		PIPE TO SAFE-END	UT-H-400/10		S91H1P059	NRI		
NUREG-0313F			UT-H-800/02		S91H1C157	N/A	UT CAL	
					S91H1U217	NRI		
					S91H1C158	N/A	UT CAL	
					S91H1U218	RI	LINEAR IND.	
					S91H1C202	N/A	UT CAL	
					S91H1U272	NRI		
					S91H1C203	N/A	UT CAL	
					S91H1U270	NRI		
					S91H1U322	N/A	THICKNESS	
B9.11	A-19/03	1B31-1RC-12BR-A-4	PT-H-600/03	134-H	S91H1P079	NRI		N/A
B-J		PIPE TO SAFE-END	UT-H-408/03		S91H1C276	N/A	UT CAL	
NUREG-0313E		OVERLAY	UT-H-800/02		S91H1U396	NRI		
					S91H1C277	N/A	UT CAL	
					S91H1U397	NRI		
					S91H1C278	N/A	UT CAL	
					S91H1U398	NRI		
					S91H1U420	N/A	THICKNESS	
					S91H1U379	N/A	THICKNESS	
					S91H1U331	N/A	THICKNESS	
B9.11	A-19/03	1B31-1RC-12BR-B-1	PT-H-600/03	17-H	S91H1P029	NRI		ONE-SIDED EXAM DUE TO
B-J		B-C TO PIPE	GE-UT-208/1		C-010	N/A	UT CAL	BRANCH CONNECTION
NUREG-0313C					D-018	NRI		CONFIGURATION.
					D-019	NRI		
					C-011	N/A	UT CAL	
					D-020	RI	GEOMETRY	

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
	RECIRC. SYSTEM							
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 S91H*C090 S97H1U140	NRI N/A NRI	UT CAL	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 NRI	UT CAL	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 NRI NRI N/A NRI	UT CAL UT CAL	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	UT CAL LINEAR IND.	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 NRI	UT CAL	N/A
B5.10 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 NRI N/A NRI N/A NRI	UT CAL UT CAL UT CAL 	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
	RECIRC. SYSTEM							
B9.11 B-J NUREG-0313E	A-19/03	1B31-1RC-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 NRI NRI N/A NRI	UT CAL UT CAL 	N/A
B9.11 B-J NUREG-0313E	A-19/03	1B31-1RC-12BR-D-3 ELBOW TO PIPE OVERLAY	UT-H-808/02	134-H	S91H1C129 S91H1U185 S91H1U191	N/A RI N/A	UT CAL LINEAR IND. SIZING	SEE INF # 191H1010
B5.10 B-F NUREG-0313C	A-19/03	1B31-1RC-12BR-D-5 SAFE-END TO NOZZLE	PT-H-600/03 UT-H-810/01	85-H 31-H	S91H1P019 S91H1C198 S91H1U263 S91H1C199 S91H1U264 S91H1C201 S91H1U269	RI N/A NRI N/A NRI N/A RI	LINEAR IND. UT CAL UT CAL UT CAL GEOMETRY	0.1" LINEAR CODE ALLOWABLE PT INDICATION.
B9.11 B-J NUREG-0313E	A-19/03	1B31-1RC-12BR-E-2 PIPE TO ELBOW OVERLAY	GE-UT-212/1	134-H	C-022 D-037 D-038	N/A NRI NRI	UT CAL 	N/A
B9.11 B-J NUREG-0313E	A-19/03	1B31-1RC-12BR-E-3 ELBOW TO PIPE OVERLAY	UT-H-808/02	134-H	S91H1C134 S91H1U194	N/A RI	UT CAL LINEAR IND.	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
	RECIRC. SYSTEM							
B9.11 B-J NUREG-0313F	A-19/03	1831-1RC-12BR-E-4 PIPE TO SAFE-END	PT-M-600/03 UT-M-400/10 UT-M-800/02	17-M	S91M1P018	NRI		SEE INF # 191M1018.
					S91M1P073	NRI		
					S91M1C159	N/A	UT CAL	
					S91M1U219	NRI		
					S91M1C160	N/A	UT CAL	
					S91M1U220	RI	LINEAR IND.	
					S91M1C163	N/A	UT CAL	
					S91M1U226	RI	LINEAR IND.	
					S91M1C164	N/A	UT CAL	
					S91M1U227	NRI		
					S91M1U337	N/A	THICKNESS	
B9.11 B-J NUREG-0313E	A-19/03	1831-1RC-12BR-E-4 PIPE TO SAFE-END OVERLAY	PT-M-600/03 UT-M-408/03	134-M	S91M1P080	NRI		N/A
					S91M1C279	N/A	UT CAL	
					S91M1U399	NRI		
					S91M1C280	N/A	UT CAL	
					S91M1U400	NRI		
					S91M1C281	N/A	UT CAL	
					S91M1U401	NRI		
					S91M1U343	N/A	THICKNESS	
					S91M1U382	N/A	THICKNESS	
B5.10 B-F NUREG-0313E	A-19/03	1831-1RC-12BR-E-5 SAFE-END TO NOZZLE	UT-M-409/07	144-M 31-M	S91M1C148	N/A	UT CAL	PREVIOUSLY RECORDED INDICATION NO APPARENT GROWTH.
					S91M1U208	NRI		
					S91M1C155	N/A	UT CAL	
					S91M1U215	NRI		
					S91M1C156	N/A	UT CAL	
					S91M1U216	RI	LINEAR IND.	
B9.11 B-J NUREG-0313E	A-16/03	1831-1RC-4"AM-1 CAP TO PIPE OVERLAY	UT-M-408/03	134-M	S91M1C086	N/A	UT CAL	PREVIOUSLY RECORDED INDICATION NO APPARENT GROWTH.
					S91M1U136	RI	LINEAR IND.	

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
	RECIRC. SYSTEM							
B10.10 B-K-1 NUREG-0313L	A-16/03	1831-1RC-22AM-1HL-B-1 AND 2 DEVICE 831-HA4	PT-H-600/03	N/A	S91H1P031	NRI		N/A
B9.12 B-J NUREG-0313A	A-16/03	1831-1RC-22AM-3LD LONGITUDINAL SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/03 UT-H-40C/10	47-H	S91H1P028 S91H1C150 S91H1U210	NRI N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0313E	A-16/03	1831-1RC-22AM-4 PIPE TO CAP OVERLAY	UT-H-40B/03	134-H	S91H1C085 S91H1U135	N/A RI	UT CAL LINEAR IND.	PREVIOUSLY RECORDED INDICATION NO APPARENT GROWTH.
B9.11 B-J NUREG-0313E	A-17/03	1831-1RC-22BM-1 CAP TO PIPE OVERLAY	UT-H-40B/03	134-H	S91H1C188 S91H1U253	N/A NRI	UT CAL	N/A
B10.10 B-K-1 NUREG-0313L	A-17/03	1831-1RC-22BM-3HL-A-1 AND 2 DEVICE 831-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	1831-1RC-22BM-3HL-B-1 AND 2 DEVICE 831-HB3	PT-H-600/03	N/A	S91H1P077	NRI		N/A
B9.11 B-J NUREG-0313E	A-17/03	1831-1RC-22BM-4 PIPE TO CAP OVERLAY	UT-H-40B/03	134-H	S91H1C189 S91H1U254	N/A RI	UT CAL LINEAR IND.	PREVIOUSLY RECORDED INDICATION 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
	RECIRC. SYSTEM							
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 NRI N/A NRI N/A NRI	UT CAL UT CAL UT CAL 	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 RI	UT CAL 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 C-007 D-009 D-010	NRI N/A NRI NRI	 UT CAL 	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 NRI NRI	UT CAL 	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 RI	UT CAL 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 RI RI	UT CAL LINEAR IND. 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
	RECIRC. SYSTEM							
B9.11 B-J NUREG-0313C	A-14/04	1831-1RC-28A-8 VALVE TO PIPE OVERLAY	GE-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	UT CAL LINEAR IND. LINEAR IND. UT CAL LINEAR IND. LINEAR IND.	PREVIOUSLY RECORDED LINEAR INDICATIONS. NO APPARENT GROWTH.
B9.11 B-J NUREG-0313C	A-14/04	1831-1RC-28A-9 PIPE TO ELBOW	PT-H-600/03 UT-H-400/10 GE-UT-208/1	151-H	S91H1P007 S91H1C095 S91H1U145 C-003 D-005 D-006	NRI N/A NRI N/A RI RI	 UT CAL UT CAL GEOMETRY GEOMETRY	N/A
B9.11 B-J NUREG-0313C	A-14/04	1831-1RC-28A-10 ELBOW TO PUMP OVERLAY	UT-H-408/03	134-H	S91H1C098 S91H1U149	N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0313C	A-148/01	1831-1RC-28A-11 PUMP TO PIPE	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 NRI NRI N/A RI	UT CAL GEOMETRY UT CAL GEOMETRY UT CAL UT CAL GEOMETRY	ONE-SIDED EXAM DUE TO PUMP CONFIGURATION.
B9.11 B-J NUREG-0313E	A-148/01	1831-1RC-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	UT CAL LINEAR IND. UT CAL LINEAR IND.	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
	RECIRC. SYSTEM							
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	 UT CAL GEOMETRY GEOMETRY UT CAL 	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	UT CAL LINEAR IND. LINEAR IND.	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 S91H1C083 S91H1U133 S91H1C088 S91H1U138	NRI N/A NRI N/A RI	 UT CAL UT CAL GEOMETRY	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	UT CAL GEOMETRY GEOMETRY UT CAL 	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. 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-14B/01	1831-1RC-28A-16 TEE TO CROSS	UT-H-400/10	92-H	S91H1C182 S91H1U247	N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0313C	A-14C/01	1831-1RC-28A-17 CROSS TO REDUCER	UT-H-400/10	92-H	S91H1C183 S91H1U248	N/A NRI	UT CAL	N/A
B5.10 B-F NUREG-0313C	A-15/04	1831-1RC-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 NRI N/A NRI N/A NRI N/A NRI N/A NRI	UT CAL UT CAL UT CAL UT CAL 	N/A
B9.11 B-J NUREG-0313C	A-15/04	1831-1RC-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 RI N/A N/A N/A N/A	 UT CAL LINEAR IND. SIZING SIZING SIZING THICKNESS	SEE INF # I91H1011.

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
		RECIRC. SYSTEM						
B9.11	A-15/04	1831-1RC-28B-2	PT-H-600/03	134-H	S91H1P082	NRI		N/A
B-J		SAFE-END TO PIPE	UT-H-408/03		S91H1C284	N/A	UT CAL	
NUREG-0313E		OVERLAY	UT-H-808/02		S91H1U404	NRI		
					S91H1C286	N/A	UT CAL	
					S91H1U406	NRI		
					S91H1C289	N/A	UT CAL	
					S91H1U409	NRI		
					S91H1C290	N/A	UT CAL	
					S91H1U410	NRI		
					S91H1U421	N/A	THICKNESS	
					S91H1U318	N/A	THICKNESS	
					S91H1U392	N/A	THICKNESS	
B9.11	A-15/04	1831-1RC-28B-3	UT-H-808/02	134-H	S91H1C135	N/A	UT CAL	N/A
B-J		PIPE TO ELBOW			S91H1U195	NRI		
NUREG-0313E		OVERLAY						
B9.11	A-15/04	1831-1RC-28B-4	UT-H-808/02	134-H	S91H1C190	N/A	UT CAL	N/A
B-J		ELBOW TO PIPE			S91H1U255	NRI		
NUREG-0313E		OVERLAY						
B9.11	A-15/04	1831-1RC-28B-5	UT-H-400/10	151-H	S91H1C246	N/A	UT CAL	ONE-SIDED EXAM DUE TO TEE
B-J		PIPE TO TEE	GE-UT-208/1		S91H1U333	RI	GEOMETRY	CONFIGURATION.
NUREG-0313C					S91H1C247	N/A	UT CAL	
					S91H1U334	RI	GEOMETRY	
					S91H1U335	RI	GEOMETRY	
					S91H1U336	N/A	SIZING	
					S91H1U375	N/A	IND EVAL	
					C-033	N/A	UT CAL	
					D-057	RI	GEOMETRY	

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
	RECIRC. SYSTEM							
B9.11 B-J NUREG-0313C	A-15/04	1B31-1RC-28B-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 NRI N/A NRI	 UT CAL UT CAL 	N/A
B9.11 B-J NUREG-0313E	A-15/04	1B31-1RC-28B-8 ELBOW TO VALVE OVERLAY	UT-H-408/03 UT-H-808/02	134-H	S91H1C264 S91H1U363 S91H1C269 S91H1U370	N/A NRI N/A RI	UT CAL UT CAL LINEAR IND.	PREVIOUSLY RECORDED LINEAR INDICATION. NO APPARENT GROWTH.
B9.11 B-J NUREG-0313E	A-15/04	1B31-1RC-28B-9 VALVE TO PIPE OVERLAY	UT-H-408/03 UT-H-808/02	134-H	S91H1C262 S91H1U361 S91H1C265 S91H1U364	N/A NRI N/A NRI	UT CAL UT CAL 	N/A
B9.11 B-J NUREG-0313E	A-15/04	1B31-1RC-28B-10 PIPE TO ELBOW OVERLAY	GE-UT-212/1	134-H	C-030 D-052 D-053	N/A RI RI	UT CAL LINEAR IND. LINEAR IND.	EXAM LIMITATION DUE TO DRAIN LINE INTERFERENCE.90% COVERAGE PREVIOUSLY RECORDED LINEAR INDICATIONS NO APPARENT GROWTH.
B9.11 B-J NUREG-0313E	A-15/04	1B31-1RC-28B-11 ELBOW TO PUMP OVERLAY	UT-H-408/03	134-H	S91H1C219 S91H1U290	N/A NRI	UT CAL 	N/A
B9.31 B-J NUREG-0313C	A-15B/01	1B31-1RC-28B-12BC PIPE TO BC	PT-H-600/03 UT-H-400/10	151-H	S91H1P012 S91H1C089 S91H1U139 S91H1C093 S91H1U143	NRI N/A NI N/A NRI	 UT CAL UT CAL 	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
	RECIRC. SYSTEM							
B9.11 B-J NUREG-0313E	A-15B/01	1B31-1RC-28B-13 PIPE TO VALVE OVERLAY	UT-H-408/03 UT-H-808/02	134-H	S91H1C125 S91H1U179 S91H1C192 S91H1U257	N/A NRI N/A NRI	UT CAL UT CAL 	N/A
B9.11 B-J NUREG-0313E	A-15B/01	1B31-1RC-28B-14 VALVE TO ELBOW OVERLAY	UT-H-808/02	134-H	S91H1C194 S91H1U259	N/A NRI	UT CAL 	N/A
B9.11 B-J NUREG-0313E	A-15B/01	1B31-1RC-28B-15 ELBOW TO PIPE OVERLAY	GE-UT-212/1	134-H	C-006 D-007 D-008	N/A RI RI	UT CAL LINEAR IND. LINEAR IND.	SEE INF # I91H1020.
B9.11 B-J NUREG-0313E	A-15B/01	1B31-1RC-28B-16 PIPE TO TEE OVERLAY	GE-UT-212/1	134-H	C-029 D-050 D-051	N/A NRI NRI	UT CAL 	N/A
B10.10 B-K-1 NUREG-0313L	A-15B/01	1B31-1RC-28B-16RL-1 AND 2 DEVICE B31-SSB13	PT-H-600/03	N/A	S91H1P043	NRI		N/A
B10.10 B-K-1 NUREG-0313L	A-15B/01	1B31-1RC-28B-16RL-3 AND 4 DEVICE B31-SSB12	PT-H-600/03	N/A	S91H1P044	NRI		N/A
B9.11 B-J NUREG-0313C	A-15B/01	1B31-1RC-28B-17 TEE TO CROSS	UT-H-400/10	92-H	S91H1C184 S91H1U249	N/A NRI	UT CAL 	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
	RECIRC. SYSTEM							
B9.11	A-15B/01	1B31-1RC-28B-18	UT-H-400/10	92-H	S91H1C185	N/A	UT CAL	N/A
B-J		CROSS TO REDUCER			S91H1U250	NRI		
NUREG-0313C								
	RESIDUAL HEAT REMOVAL SYSTEM							
B9.11	A-23/03	1E11-1RHR-20B-D-3	UT-H-408/03	134-H	S91H1C197	N/A	UT CAL	N/A
B-J		ELBOW TO PIPE	UT-H-808/02		S91H1U262	NRI		
NUREG-0313E		OVERLAY						
B9.11	A-23/03	1E11-1RHR-20B-D-4	PT-H-600/03	130-H	S91H1P045	NRI		SEE INF # I91H1018.
B-J		PIPE TO PIPE	UT-H-800/02		S91H1P058	NRI		
NUREG-0313F					S91H1C200	N/A	UT CAL	
					S91H1U265	RI	LINEAR IND.	
					S91H1U266	N/A	SIZING	
					S91H1U267	N/A	SIZING	
					S91H1U324	N/A	THICKNESS	
B9.11	A-23/03	1E11-1RHR-20B-D-4	PT-H-600/03	134-H	S91H1P075	RI	LINEAR IND.	SEE INF # I91H1022.
B-J		PIPE TO PIPE	UT-H-408/03		S91H1P076	NRI		
NUREG-0313E		OVERLAY	UT-H-808/02		S91H1C282	N/A	UT CAL	
					S91H1U402	NRI		
					S91H1C291	N/A	UT CAL	
					S91H1U411	NRI		
					S91H1C292	N/A	UT CAL	
					S91H1U412	NRI		
					S91H1C293	N/A	UT CAL	
					S91H1U413	NRI		
					S91H1U371	N/A	THICKNESS	
					S91H1U342	N/A	THICKNESS	

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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
		RESIDUAL HEAT REMOVAL SYSTEM						
B9.11	A-23/03	1E11-1RHR-20B-D-5	UT-H-810/01	130-H	S91H1P07C	NRI		ONE SIDED EXAM DUE TO VALVE
B-J		PIPE TO VALVE			S91H1C206	N/A	UT CAL	CONFIGURATION.
NUREG-0313C					S91H1U275	NRI		
					S91H1C210	N/A	UT CAL	
					S91H1U280	NRI		
					S91H1U380	N/A	SIZING	
					S91H1U422	N/A	THICKNESS	
B9.11	A-23/03	1E11-1RHR-20B-D-5	PT-H-600/03	135-H	S91H1P084	NRI		WOL TO IMPROVE INSPECTABILITY.
B-J		PIPE TO VALVE	UT-H-408/03		S91H1C283	N/A	UT CAL	
NUREG-0313E		OVERLAY	UT-H-808/02		S91H1U403	NRI		
					S91H1C294	N/A	UT CAL	
					S91H1U414	NRI		
					S91H1C295	N/A	UT CAL	
					S91H1U415	NRI		
					S91H1C296	N/A	UT CAL	
					S91H1U416	NRI		
					S91H1U423	N/A	THICKNESS	
					S91H1U394	N/A	THICKNESS	
B9.11	A-23/03	1E11-1RHR-20B-D-8	MT-H-500/05	14-H	S91H1M048	NRI		N/A
B-J		PIPE TO ELBOW	UT-H-400/10		S91H1C136	N/A	UT CAL	
ASME					S91H1U196	NRI		
B10.10	A-23/03	1E11-1RHR-20B-D-9HL-1 THRU 4	MT-H-500/05	N/A	S91H1M049	NRI		N/A
B-K-1		DEVICE E11-RHRN-32B						
ASME								

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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
		RESIDUAL HEAT REMOVAL SYSTEM						
B9.11	A-23/03	1E11-1RHR-20B-D-14	MT-H-500/05	14-H	S91H1M060	NRI		ONE-SIDED EXAM DUE TO
B-J		FLUED HEAD TO PIPE	UT-H-400/10		S91H1C151	N/A	UT CAL	CONFIGURATION.
ASME					S91H1U211	NRI		
					S91H1C152	N/A	UT CAL	
					S91H1U212	NRI		
B9.11	A-21/04	1E11-1RHR-24A-R-4	MT-H-500/05	12-H	S91H1M065	NRI		ONE-SIDED EXAM DUE TO
B-J		PIPE TO PIPE	UT-H-400/10		S91H1C180	N/A	UT CAL	INTERFERENCE FROM DOWNSTREAM
ASME					S91H1U243	RI	GEOMETRY	WELD.
					S91H1C181	N/A	UT CAL	
					S91H1U244	RI	GEOMETRY	
					S91H1U245	N/A	THICKNESS	
					S91H1U246	N/A	WELD PROFILE	
B9.11	A-21/04	1E11-1RHR-24A-R-6	MT-H-500/05	12-H	S91H1M076	NRI		EXAM LIMITATION DUE TO HANGER,
B-J		ELBOW TO ELBOW	UT-H-400/10		S91H1C258	N/A	UT CAL	95% COVERAGE.
ASME					S91H1U352	NRI		
					S91H1U353	N/A	THICKNESS	
B9.11	A-21/04	1E11-1RHR-24A-R-7	MT-H-500/05	12-H	S91H1M077	NRI		N/A
B-J		ELBOW TO ELBOW	UT-H-400/10		S91H1C259	N/A	UT CAL	
ASME					S91H1U354	NRI		
					S91H1U355	N/A	THICKNESS	
B9.11	A-21/04	1E11-1RHR-24A-R-12	PT-H-600/03	104-K	S91H1P014	NRI		ONE-SIDED EXAM DUE TO VALVE
B-J		VALVE TO PIPE	UT-H-810/01		S91H1U225	N/A	THICKNESS	CONFIGURATION.
NUREG-0313C		DIS.METAL SHOP WELD			S91H1C215	N/A	UT CAL	
					S91H1U284	NRI		
					S91H1C214	N/A	UT CAL	
					S91H1U285	NRI		
					S91H1C216	N/A	UT CAL	
					S91H1U286	NRI		

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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
		RESIDUAL HEAT REMOVAL SYSTEM						
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 NRI	UT CAL	N/A
B9.11 B-J NUREG-0313C	A-21/04	1E11-1RHR-24A-R-14 PIPE TO TEE	GE-UT-208/1	104-H	C-034 D-058 D-059 C-035 D-060	N/A NRI NRI 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	NRI 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	NRI N/A NRI 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 NRI N/A NRI N/A	LINEAR IND. UT CAL THICKNESS	SEE INF # 191H1013.

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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
		RESIDUAL HEAT REMOVAL SYSTEM						
B9.11	A-22/04	1E11-1RHR-24B-R-8	MT-H-500/05	12-H	S91H1M085	NRI		N/A
B-J		ELBOW TO PIPE	UT-H-400/10		S91H1C271	N/A	UT CAL	
ASME					S91H1U378	NRI		
					S91H1C272	N/A	UT CAL	
					S91H1U385	NRI		
					S91H1U384	N/A	THICKNESS	
B9.11	A-22/04	1E11-1RHR-24B-R-11	MT-H-500/05	12-H	S91H1M053	NRI		ONE-SIDED EXAM DUE TO VALVE
B-J		ELBOW TO VALVE	UT-H-400/10		S91H1C133	N/A	UT CAL	CONFIGURATION.
ASME					S91H1U193	NRI		
					S91H1C132	N/A	UT CAL	
					S91H1U192	RI	GEOMETRY	
B9.11	A-22/04	1E11-1RHR-24B-R-12	GE-UT-212/1	135-H	C-040	N/A	UT CAL	SEE INF # I91H1024.
B-J		VALVE TO PIPE			D-067	RI	LINEAR IND.	
NUREG-0313E		OVERLAY			D-068	RI	LINEAR IND.	
B9.11	A-22/04	1E11-1RHR-24B-R-13	GE-UT-212/1	134-H	C-016	N/A	UT CAL	SEE INF # I91H1021.
B-J		PIPE TO PIPE			D-027	RI	LINEAR IND.	
NUREG-0313E		OVERLAY			D-028	RI	LINEAR IND.	
					C-017	N/A	UT CAL	
					D-029	RI	LINEAR IND.	
					D-030	RI	LINEAR IND.	
B9.11	A-22/04	1E11-1RHR-24B-R-14	GE-UT-208/1	104-H	C-031	N/A	UT CAL	ONE-SIDED EXAM DUE TO TEE
B-J		PIPE TO TEE			D-054	NRI		CONFIGURATION.
NUREG-0313C					D-055	NRI		
					C-032	N/A	UT CAL	
					D-056	RI	GEOMETRY	

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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
	CORE SPRAY SYSTEM							
B5.130	A-26/04	1E21-1CS-10A-18A	PT-H-600/03	150-H	S91H1P001	NRI		EXAM LIMITATION DUE TO TAPER
B-F		PIPE TO SAFE-END	UT-H-409/07	137-H	S91H1C014	N/A	UT CAL	OF SAFE END.
NUREG-0313D		EXTENSION			S91H1U041	NRI		44% COVERAGE.
					S91H1C015	N/A	UT CAL	
					S91H1U042	NRI		
					S91H1C022	N/A	UT CAL	
					S91H1U049	NRI		
B9.11	A-26/04	1E21-1CS-10A-19A	PT-H-600/03	85-H	S91H1P002	NRI		EXAM LIMITATION DUE TO
B-J		SAFE-END EXTENSION	UT-H-400/10		S91H1C023	N/A	UT CAL	SAFE END EXTENSION TAPER.
NUREG-0313D		TO SAFE-END			S91H1U050	NRI		85% COVERAGE.
B5.10	A-26/04	1E21-1CS-10A-20A	PT-H-600/03	108-H	S91H1P003	NRI		N/A
B-F		SAFE-END TO NOZZLE	UT-H-409/07	85-H	S91H1C012	N/A	UT CAL	
NUREG-0313D					S91H1U039	NRI		
					S91H1C013	N/A	UT CAL	
					S91H1U040	NRI		
					S91H1C024	N/A	UT CAL	
					S91H1U051	NRI		
	HIGH PRESSURE COOLANT INJECTION SYSTEM							
B9.11	A-29/05	1E41-1HPCI-14-R-3	MT-H-500/05	43-H	S91H1M089	NRI		N/A
B-J		PIPE TO ELBOW	UT-H-400/10		S91H1C274	N/A	UT CAL	
ASME					S91H1U389	NRI		
					S91H1U390	N/A	THICKNESS	
B9.32	A-29/05	1E41-1HPCI-14-R-11BC	MT-H-500/05	N/A	S91H1M019	NRI		N/A
B-J		PIPE TO BRANCH						
ASME		CONNECTION						

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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
		REACTOR WATER CLEAN-UP SYSTEM						
B9.11 B-J ASME	A-33/02	1G31-1RWCU-4-R-41 PIPE TO TEE	MT-H-500/05 UT-H-400/10	122-H	S91H1M039 S91H1C049 S91H1U087 S91H1C256 S91H1U3??	NRI N/A NRI N/A NRI	UT CAL UT CAL	ONE SIDED EXAM DUE TO TEE CONFIGURATION.
B9.11 B-J NUREG-0313D	A-32/04	1G31-1RWCUM-6-D-* B-C TO PIPE OVERLAY	UT-H-408/03	134-H	S91H1C175 S91H1U237	N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-2 PIPE TO ELBOW	PT-H-600/03 UT-H-400/10	133-H	S91H1P032 S91H1C107 S91H1U158	NRI N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-2-LU LONG SEAM WELD EXTENDING UPSTREAM	PT-H-600/03 UT-H-400/10	133-H	S91H1P034 S91H1C109 S91H1U160	NRI N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-2-IR LONG SEAM WELD DOWNSTREAM ON INSIDE OF ELBOW	PT-H-600/03 UT-H-400/10	133-H	S91H1P033 S91H1C108 S91H1U159	NRI N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-2-OR LONG SEAM WELD DOWNSTREAM ON OUTSIDE OF ELBOW	PT-H-600/03 UT-H-400/10	133-H	S91H1P035 S91H1C110 S91H1U161	NRI N/A NRI	UT CAL	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
		REACTOR WATER CLEAN-UP SYSTEM						
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-3 ELBOW TO PIPE	PT-M-600/03 UT-M-400/10	133-M	S91M1P036 S91M1C111 S91M1U162	NRI N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-3-LD LONG SEAM WELD EXTENDING DOWNSTREAM	PT-M-600/03 UT-M-400/10	133-M	S91M1P037 S91M1C112 S91M1U163	NRI N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-4 PIPE TO VALVE	PT-M-600/03 UT-M-400/10	133-M	S91M1P041 S91M1C126 S91M1U180 S91M1C128 S91M1U182	NRI N/A NRI N/A NRI	UT CAL UT CAL	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-4-LU LONG SEAM WELD EXTENDING UPSTREAM	PT-M-600/03 UT-M-400/10	133-M	S91M1P040 S91M1C127 S91M1U181	NRI N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-8 ELBOW TO PIPE	PT-M-600/03 UT-M-400/10	133-M	S91M1P038 S91M1C113 S91M1U164	NRI N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-8-LD LONG SEAM WELD EXTENDING DOWNSTREAM	PT-M-600/03 UT-M-400/10	133-M	S91M1P039 S91M1C114 S91M1U165	NRI N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-9 PIPE TO ELBOW OVERLAY	UT-M-408/03	134-M	S91M1C176 S91M1U238	N/A NRI	UT CAL	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
		REACTOR WATER CLEAN-UP SYSTEM						
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-11 PIPE TO ELBOW	PT-H-600/03 UT-H-400/10	133-H	S91H1P053 S91H1C144 S91H1U204	NRI N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-11-LU LONG SEAM WELD EXTENDING UPSTREAM	PT-H-600/03 UT-H-400/10	133-H	S91H1P052 S91H1C139 S91H1U199	NRI N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-11-IR 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	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-11-OR LONG SEAM WELD DOWNSTREAM ON OUTSIDE OF ELBOW	PT-H-600/03 UT-H-400/10	133-H	S91H1P050 S91H1C140 S91H1U200	NRI N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-12 ELBOW TO PIPE	PT-H-600/03 UT-H-400/10	133-H	S91H1P054 S91H1C145 S91H1U205	NRI N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-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	UT CAL	EXAM LIMITATION DUE TO WELDED SUPPORT. 97% COVERAGE.
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-13 PIPE TO ELBOW	PT-H-600/03 UT-H-400/10	133-H	S91H1P055 S91H1C146 S91H1U206	NRI N/A NRI	UT CAL	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						
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-13-LU LONG SEAM WELD EXTENDING UPSTREAM	PT-H-600/03 UT-H-400/10	133-H	S91H1P048 S91H1C142 S91H1U202	NRI N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-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	NRI N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-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	NRI N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-14 ELBOW TO VALVE	PT-H-600/03 UT-H-400/10	133-H	S91H1P056 S91H1C147 S91H1U207 S91H1C242 S91H1U320	NRI N/A NRI N/A RI	UT CAL UT CAL GEOMETRY	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-16 PENETRATION TO PIPE	UT-H-400/10	133-H	S91H1C058 S91H1U100 S91H1C079 S91H1U127	N/A NRI N/A NRI	UT CAL UT CAL	ONE-SIDED EXAM DUE TO PENETRATION CONFIGURATION.
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-16-LD LONG SEAM WELD EXTENDING DOWNSTREAM	UT-H-400/10	133-H	S91H1C059 S91H1U101	N/A NRI	UT CAL	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	1G31-1RWCUM-6-D-17 PIPE TO ELBOW	UT-H-400/10	133-H	S91H1C060 S91H1U102	N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-17-LU LONG SEAM WELD EXTENDING UPSTREAM	UT-H-400/10	133-H	S91H1C061 S91H1U103	N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-17-IR LONG SEAM WELD DOWNSTREAM ON INSIDE OF ELBOW	UT-H-400/10	133-H	S91H1C062 S91H1U104	N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-17-OR LONG SEAM WELD DOWNSTREAM ON OUTSIDE OF ELBOW	UT-H-400/10	133-H	S91H1C063 S91H1U105	N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-18 ELBOW TO PIPE	UT-H-400/10	133-H	S91H1C064 S91H1U106	N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-18-LD LONG SEAM WELD EXTENDING DOWNSTREAM	UT-H-400/10	133-H	S91H1C065 S91H1U107	N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-19 PIPE TO ELBOW	UT-H-400/10	133-H	S91H1C066 S91H1U108	N/A NRI	UT CAL	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						
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-19-LU LONG SEAM WELD EXTENDING UPSTREAM	UT-H-400/10	133-H	S91H1C067 S91H1U109	N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-19-IR LONG SEAM WELD DOWNSTREAM ON INSIDE OF ELBOW	UT-H-400/10	133-H	S91H1C068 S91H1U110	N/A NRI	UT CAL	N/A
B9.12 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-19-OR LONG SEAM WELD DOWNSTREAM ON OUTSIDE OF ELBOW	UT-H-400/10	133-H	S91H1C069 S91H1U111	N/A NRI	UT CAL	N/A
B9.11 B-J NUREG-0313A	A-32/04	1G31-1RWCUM-6-D-20 ELBOW TO VALVE	UT-H-400/10	133-H	S91H1C070 S91H1U112 S91H1C080 S91H1U128	N/A NRI N/A NRI	UT CAL UT CAL	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.
		VALVE BODIES						
B12.50 B-M-2 ASME	A-8/07	B21-F010A BODY VALVE BODIES	45QC-1NS-011-0S/01	N/A	N/A	SAT	MWO 1-91-5445	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	45QC-1NS-011-0S/01	N/A	N/A	SAT	MWO 1-91-3673	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
	VALVE BODIES							
B12.50 B-M-2 ASME	A-6A/01	B21-F022C BODY VALVE BODIES	45QC-1NS- 011-0S/01	N/A	N/A	SAT	MWO 1-91-5389	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	45QC-1NS- 011-0S/01	N/A	N/A	SAT	MWO 1-91-3605	EXAMINED BY GPC QC. DISASSEMBLED DUE TO LLRT FAILURE. EXAMINED 1988 OUTAGE.
	VALVE BOLTING							
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
	VALVE BOLTING						
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.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
		RESIDUAL HEAT REMOVAL SYSTEM						
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	NRI N/A NRI N/A RI N/A RI	 UT CAL UT CAL GEOMETRY UT CAL GEOMETRY	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 NRI	LINEAR IND.	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	LINEAR IND. IND EVAL	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 NRI N/A	LINEAR IND. LINEAR IND. THICKNESS	SEE INF # 191H1005.
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 NRI	LINEAR IND. LINEAR IND.	SEE INF # 191H1014.
C3.10 C-C ASME	B-32/03	1E11-2HX-A-USC-4 UPPER SUPPORT BRACKET	MT-H-500/05	N/A	S91H1M022	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
		RESIDUAL HEAT REMOVAL SYSTEM						
C3.10 C-C ASME	B-32/03	1E11-2HX-B-LSC-1 LOWER SUPPORT BRACKET	MT-H-500/05	N/A	S91H1M080	NRI		N/A
C2.21 C-B ASME	B-32/03	1E11-2HX-B-O RHR HX SHELL TO OUTLET NOZZLE	MT-H-500/05 UT-H-400/10	72-B	S91H1M069 S91H1C207 S91H1U276 S91H1C208 S91H1U278 S91H1C209 S91H1U279 S91H1U277	NRI N/A NRI N/A RI N/A RI N/A	 UT CAL UT CAL GEOMETRY UT CAL GEOMETRY THICKNESS	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	RI NRI	LINEAR IND.	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	NRI		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	NRI		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	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
	RESIDUAL HEAT REMOVAL SYSTEM							
C5.11 C-F ASME	B-57/04	1E11-2RHR-14B-SS-4 PIPE TO REDUCER	MT-H-500/05	N/A	S91H1M004	NRI		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	NRI		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	NRI		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	NRI		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	NRI		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	RI NRI	LINEAR IND.	LINEAR INDICATIONS REMOVED BY 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	RI NRI	LINEAR IND.	LINEAR INDICATIONS REMOVED BY FLAPPING.

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
		RESIDUAL HEAT REMOVAL SYSTEM						
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-D-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 S91H1ML78	RI NRI	LINEAR IND.	LINEAR INDICATION REMOVED BY FLAPPING.
C5.21 C-F ASME	B-36/04	1E11-2RHR-24A-IS-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. UT CAL GEOMETRY THICKNESS	MT INDICATIONS REMOVED BY FLAPPING.

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
		RESIDUAL HEAT REMOVAL SYSTEM						
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	NRI N/A NRI N/A RI N/A	 UT CAL UT CAL GEOMETRY 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	NRI N/A RI N/A RI N/A	 UT CAL GEOMETRY UT CAL GEOMETRY 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	NRI		N/A
-- -- AUGMENTED	B-45/04	1E11-2RHR-4A-PD-C-1 PIPE TO VALVE	MT-H-500/05	N/A	S91H1M030	NRI		N/A
-- -- AUGMENTED	B-68/03	1E11-2RHR-4A-SS-2 ELBOW TO PIPE	MT-H-500/05	N/A	S91H1M016	NRI		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	NRI		N/A

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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
	RESIDUAL HEAT REMOVAL SYSTEM							
C5.11 C-F 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-B-FPD-1 TEE TO ELBOW	MT-H-500/05	N/A	S91H1M041	NRI		N/A
C5.11 C-F ASME	B-72/05	1E11-2RHR-B-FPS-20 ELBOW TO PIPE	MT-H-500/05	N/A	S91H1M017 S91H1M032	RI NRI	LINEAR IND.	LINEAR INDICATION REMOVED BY FLAPPING.
	CORE SPRAY SYSTEM							
-- -- AUGMENTED	B-3A/00	1E21-2CS-3A-1 BRANCH CONNECTION TO ELBOW	MT-H-500/05	N/A	S91H1M001	NRI		N/A
	HIGH PRESSURE COOLANT INJECTION SYSTEM							
-- -- 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
		HIGH PRESSURE COOLANT INJECTION SYSTEM						
-- -- AUGMENTED	B-10A/00	1E41-2HPCI-4-MFL-5 ELBOW TO PIPE	MT-H-500/05	N/A	S91H1M003	NRI		N/A
		REACTOR CORE ISOLATION COOLING SYSTEM						
-- -- AUGMENTED	B-99/00	1E51-2RCIC-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	1E51-2RCIC-4-SS-17 PIPE TO ELBOW	MT-H-500/05	N/A	S91H1M040	NI		N/A
-- -- AUGMENTED	B-88A/00	1E51-2RCIC-6-CST-14 ELBOW TO PIPE	PT-H-600/03	N/A	S91H1P042	NI		N/A
-- -- AUGMENTED	B-89/05	1E51-2RCIC-6-TS-4 VALVE TO PIPE	MT-H-500/05	N/A	S91H1M059	NRI		N/A
		REACTOR WATER CLEAN-UP SYSTEM						
-- -- NUREG-0619	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.

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
		REACTOR WATER CLEAN-UP SYSTEM						
--	B-83/06	1G31-2RWCU-4-R-4C	UT-H-400/10	142-H	S91H1C076	N/A	UT CAL	N/A
--		PIPE TO PIPE			S91H1U120	RI	GEOMETRY	
NUREG-0619					S91H1U122	N/A	THICKNESS	
		MAIN STEAM AUXILIARY SYSTEM						
C3.20	B-77/05	1N11-2MSA-24D-11PS-1 THRU 4	MT-H-500/05	N/A	S91H1M015	NI		EXAM LIMITATION DUE TO HANGER
C-C		DEVICE N11-MSH-15						INTERFERENCE, 98% COVERAGE.
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-004-0S, Operating Pressure Testing of Piping and Components.

CLASS 1 PRESSURE TEST SUMMARY

TEST I.D.	PROCEDURE	MWO NUMBER
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-003-0S, 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-004-0S, 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

TEST I.D.	PROCEDURE	MWO NUMBER
1E11-HT-1	42IT-TET-003-0S	1-91-3193
1E11-HT-11	42IT-TET-003-0S	1-91-3194
1E21-FT-1	42IT-TET-004-0S	None Required
1E41-FT-1	42IT-TET-004-0S	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-003-0S, 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-004-0S, 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 1 PRESSURE TEST SUMMARY

TEST I.D.	PROCEDURE	MWO NUMBER
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	I91H1019	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	I91H1019	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	REPORT 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	I91H1016	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-RHRH-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	I91H1002	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.	MWO 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-RHR-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-HPSEH-37	B-67/04	SPRING	A	S91H1V071	N/A				
2	1E41-HPSEH-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	I91H1008	1-91-6129	A	N/A	SLIPPED BEARING RE-EXAM BY GPC QC
2	1E11-RHRH-407A	B-72/05	SIMPLE	U	S91H1V090	I91H1008	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	I91H1003	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. HATCH 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	I91H1023	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	I91H1023	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	I91H1008	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	I91H1017	1-91-6504	A	S91H1V230	NO LOAD ON SUPPORT
2	1C11-SK1-H6	B-85/04	SIMPLE	U	S91H1V226	I91H1023	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	I91H1023	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	I91H1001	1-91-5454	A	S91H1V095	BENT PADDLE 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	I91H1001	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	I91H1001	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	I91H1001	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-148	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
		REACTOR WATER CLEAN-UP SYSTEM						
--	C-115/00	1G31-3RWCU-4-D-10	UT-H-400/10	145-H	S91H1C054	N/A	UT CAL	N/A
--		ELBOW TO PIPE			S91H1U092	NRI		
NUREG-0313S					S91H1C050	N/A	UT CAL	
					S91H1U088	NRI		
					S91H1U093	N/A	THICKNESS	
--	C-115/00	1G31-3RWCU-4-D-14	UT-H-400/10	145-H	S91H1C055	N/A	UT CAL	N/A
--		ELBOW TO PIPE			S91H1U094	NRI		
NUREG-0313S					S91H1C051	N/A	UT CAL	
					S91H1U089	NRI		
					S91H1U095	N/A	THICKNESS	
--	C-111/00	1G31-3RWCU-4-HX-6	UT-H-400/10	145-H	S91H1C056	N/A	UT CAL	N/A
--		PIPE TO ELBOW			S91H1U096	NRI		
NUREG-0313S					S91H1C052	N/A	UT CAL	
					S91H1U090	NRI		
					S91H1U097	N/A	THICKNESS	
--	C-116/00	1G31-3RWCU-4-R-5	UT-H-400/10	145-H	S91H1C057	N/A	UT CAL	N/A
--		PIPE TO ELBOW			S91H1U098	NRI		
NUREG-0313S					S91H1C053	N/A	UT CAL	
					S91H1U091	NRI		
					S91H1U099	N/A	THICKNESS	
--	C-117/00	1G31-3RWCU-4-R-34	UT-H-400/10	145-H	S91H1C268	N/A	UT CAL	N/A
--		PIPE TO ELBOW			S91H1U367	NRI		
NUREG-0313S					S91H1C177	N/A	UT CAL	
					S91H1U239	NRI		
					S91H1C178	N/A	UT CAL	
					S91H1U240	RI	GEOMETRY	
					S91H1U368	N/A	THICKNESS	

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
		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-
--		PIPE TO ELBOW			S91H1U113	NRI		RESTRAINT, 94% COVERAGE.
NUREG-0313S					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-
--		ELBOW TO PIPE			S91H1U114	NRI		RESTRAINT, 94% COVERAGE.
NUREG-0313S					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
--		ELBOW TO PIPE			S91H1U117	NRI		
NUREG-0313S					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

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

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

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

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

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

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

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

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

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	DET
EIH1-91-8	00000-01425	Core Spray Spargers 90° - 0° - 270° Sparger & Nozzles	DET
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

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

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

GE Nuclear Energy

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

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.

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 81-058.
** MWO 1-89-4770			
1P42 SUPPORTS	MODIFY SUPPORTS 1P42-CCW-H117, H118 AND H118A PER THE REQUIREMENTS OF IEB-79-14.	VT-3	EVALUATION FOE ACCEPTABILITY WAS PERFORMED AS PART OF DESIGN CHANGE PACKAGE 81-058.
** 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-023-0S.	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 81-058.
** 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 81-058.
** 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 81-058.
** 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

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 B1-058.
** 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.	VT-3	EVALUATION FOR ACCEPTABILITY WAS PERFORMED AS PART OF DESIGN CHANGE PACKAGE B1-058.
** MWO 1-90-1584			
1B21 MSIV F022C	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-B21-001-0S IS APPROVED FOR THIS REPAIR. REPAIR WAS LISTED IN LAST NIS-1 REPORT BUT NOT UNDER R/R.
** MWO 1-90-2056			
1T48- SUPPORTS CP-704 AND 707	FABRICATE AND INSTALL PIPE SUPPORTS PER DESIGN CHANGE PACKAGE 88-267	VT-3	EVALUATION FOR ACCEPTABILITY WAS PERFORMED AS PART OF DESIGN CHANGE PACKAGE.
** MWO 1-90-2648			
SUPPORT 1B21-H820	MODIFY SUPPORT TO COMPLY WITH IEB 79-14	NONE	EVALUATION WAS PROVIDED AS PART OF THE DCR (B1-058)
** MWO 1-90-3236			
2P41-F050 VALVE	REPLACE DISC WITH NEW DISC FROM WAREHOUSE STOCK. VALVE IS IN WAREHOUSE AS SPARE.	NONE	N/A
** MWO 1-90-3888			
1B21 F020 &F038	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-B003 AND B005A 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 RIVER WATER ENVIRONMENT.
** MWO 1-91-0020 REV 1			
1E41-F050 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-F082A 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- C001,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-F055A 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.

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 [illegible] 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 1-91-2044 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 [illegible]WLAND ASSOCIATED BOL[illegible]G 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 PUMP1P41-C001A DISCHARGE HEADER TO THE FIRST FLANGE AND FROM THE 3 X2.5 REDUCER TO THE INLET OF 1P41-F891A.	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 F891C.	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-F891D, AND ASSOCIATED TUBING AND FITTINGS DOWNSTREAM OF 1P41-F891D.	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-F891B, AND ASSOCIATED TUBING AND FITTINGS DOWNSTREAM OF 1P41-F891B.	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.

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-281A 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

REPAIR AND REPLACEMENT FILES
UNIT 1 1991

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 RESU " OF SOR 1-90-290. UPGRADING OF VALVES IS ALL THAT IS BEING DONE. NO SERVICE INDUCED FAILURE INVOLVED
** MWO 1-91-4895			
1P41-F1248 REGULATING VALVES	REPLACE VALVES WITH CLASS 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 ORIFICES 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 TO 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 TO 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.

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-85 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-F022C 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-RCIC-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)

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-F010A 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 SPRING 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 FOLLOWING SNUBBERS WITH NEW OR REBUILT SNUBBERS FROM STOCK:MVVH-28,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.

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-RHRH-238A SNUBBER	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-RHRH-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 1/12" 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.

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 LLRT 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.

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.