

OWNER'S DATA REPORT

FOR

INSERVICE INSPECTION

EDWIN I. HATCH NUCLEAR PLANT

UNIT 2

FEBRUARY 1991 - JUNE 1991

PREPARED BY: Dale Wilkins

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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 Spring 1991 Refueling Outage at E.I. Hatch Nuclear Plant, Unit 2. 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
UTL	Universal Testing Laboratories
VLV	Valve
VT	Visual Examination

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

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

1. Owner: Georgia Power Company, 333 Piedmont Ave., NE, P.O. Box 4545, Atlanta, Georgia 30302
2. Plant: Edwin I. Hatch Nuclear Plant, Route 1, Box 278, Baxley, GA 31513
3. Plant Unit 2 4. Owner Certificate of Authorization (if req.) N/A
5. Commercial Service Date 09/05/79 6. National Board No. for Unit N/A

## 7. Components Inspected:

<u>Component or Appurtenance or System</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province Number</u>	<u>National Board No.</u>
Rx. Pressure Vessel	Combustion Eng.	70101	N/A	11570
Rx. Pressure Vessel	Combustion Eng.	70101	N/A	11570
2B21 Main Steam	Pullman Power Prod.	*	N/A	N/A
2B21 Feedwater	Pullman Power Prod.	*	N/A	N/A
2B21 M.S. Relief	Pullman Power Prod.	*	N/A	N/A
2B31 Rx. Recirc	Pullman Power Prod.	*	N/A	N/A
2B31 Recirc Pump	Byron Jackson	*	N/A	N/A
2C11 CRD	Pullman Power Prod.	*	N/A	N/A
2C41 SBLC	Pullman Power Prod.	*	N/A	N/A
2E11 RHR	Pullman Power Prod.	*	N/A	N/A
2E21 Core Spray	Pullman Power Prod.	*	N/A	N/A
2E41 HPCI	Pullman Power Prod.	*	N/A	N/A
2E51 RCIC	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 or 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.

cont. on next page

7. Components Inspected (continued):

<u>Component Appurtenance or System</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province Number</u>	<u>National Board No.</u>
<u>2G31 RWC</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>2G41 FPC &amp; CU</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>2G51 Torus Wtr CU</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>2N11 M S Auxiliary</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>2P11 Cond. System</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>2P41 Plt Serv Water</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>2T48 Cont. Purge</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>

- \* - 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.

FORM NIS-1 (Back)

8. Examination Dates 12/13/89 to 06/01/91.
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 8-15 1991 Signed Georgia Power Company By [Signature]

Owner

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

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of GA and employed by \*\*\*\* of Hartford, CT have inspected the components described in this Owners' Data Report during the period 02/91 to 06/91 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 8-15 19 91

[Signature] 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: August 5, 1991

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 2

Commercial Service Date: September 5, 1979

Gross Generating Capability:

2436 MWt, 817.3 MWe

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

National Board Number Assigned by Manufacturer: N/A

Name of Component or Part of Component ISI Involved:

Representative samples of the following components and areas were examined with nondestructive testing techniques.

Class 1

Reactor Pressure Vessel  
Reactor Pressure Vessel Closure Head  
Main Steam Piping System  
Feedwater Piping System  
Residual Heat Removal System  
Control Rod Drive System  
Reactor Recirculation System  
Core Spray System  
Reactor Water Cleanup System  
Valve Internal Surfaces  
High Pressure Coolant Injection System  
Reactor Core Isolation Cooling System

Class 2

RHR System  
Core Spray System  
HPCI System  
RCIC System  
Control Rod Drive System  
Containment Purge and Inerting System  
Reactor Water Cleanup System  
Main Steam Piping System  
Torus Water Cleanup System



### System Pressure/Leakage Tests

<u>System</u>	<u>Class</u>	<u>Test Required</u>
Reactor Pressure Vessel and Associated Class 1 Piping and Components	1	1 Leakage
CRD (2C11)	2	1 Hydrostatic
RHR (2E11)	2	1 Hydrostatic
RHR (2E11)	3	1 Inservice
Core Spray (2E21)	2	1 Functional
HPCI (2E41)	2	1 Functional
PSW (2P41)	3	1 Functional
PSW (2P41)	3	1 Inservice
CST (2P11)	3	1 Hydrostatic

### Pipe Support & Hanger Examination

#### Class 1

Main Steam System  
Residual Heat Removal System  
Reactor Core Isolation Cooling System  
Core Spray System  
Feedwater System  
Reactor Recirculation System  
High Pressure Coolant Injection System

#### Class 2

High Pressure Coolant Injection System  
Residual Heat Removal System  
Reactor Core Isolation Cooling System  
Core Spray System  
Containment Purge & Inerting System  
Main Steam System  
Control Rod Drive System  
Torus Water Cleanup System

#### Class 3

Main Steam Safety/Relief Valve Discharge System  
RHR Service Water System  
Plant Service Water System  
Fuel Pool Cooling & Cleanup 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. Byron-Jackson, Inc.  
Los Angeles, CA
  - b. Crane  
New York, NY
  - c. Wm. Powell Company  
Cincinnati, OH
  - d. General Electric  
San Jose, CA

Date of Inservice Inspection:

February 1991 - June 1991



Completion Date of Inservice Inspection:

June 1, 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 2 was performed during the Spring 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 2 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 and UTL performed NDE of the selected welds and components. In addition, GE assisted SNC personnel with VT examination of selected RPV internal components. SNC or GPC NDE procedures were utilized for all ASME Section XI Examinations. LMT and GE personnel were qualified to the applicable SNC procedures. EPRI certified inspectors were utilized for all examinations involving IGSCC susceptible materials. SNC and LMT procedures were used for mechanized ultrasonic examination and exams were performed by SNC and LMT 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, NUREG 0313, Revision 2, "Technical Report on Material Selection and Processing Guidelines for BWR Coolant Pressure Boundary Piping".
- United States Nuclear Regulatory Commission, 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 2 1991 Spring Refueling Outage, Revision 1."
- SNC "Second Ten-Year Examination Plan, Edwin I. Hatch Nuclear Plant Unit 2."
- 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 (2B11)  
Main Steam System (2B21)  
Feedwater System (2B21)  
Reactor Recirculation System (2B31)  
Control Rod Drive System (2C11)  
Standby Liquid Control System (2C41)  
Residual Heat Removal System (2E11)  
Core Spray System (2E21)  
High Pressure Coolant Injection System (2E41)  
Reactor Core Isolation Cooling System (2E51)  
Valve Internals  
Valve Bolting

Class 2

Residual Heat Removal System (2E11)  
Core Spray System (2E21)  
High Pressure Coolant Injection System (2E41)  
Containment Purge and Inerting System (2T48)  
Control Rod Drive System (2C11)  
Reactor Water Cleanup System (2G31)  
Reactor Core Isolation Cooling System (2E51)  
Main Steam Auxiliary System (2N11)  
Torus Water Cleanup (2G51)

Class 3

Service Water System (2E11) (2P41)  
Fuel Pool Cooling System (2G41)  
Main Steam Relief Valve Discharge Piping (2B21)  
Condensate Storage Tank (2P11)

Other - Augmented (Non ASME Section XI)

Eddy-current examinations were performed on the following components:  
Unit 2 Feedwater Heaters 4A, 4B, 8A, 8B, 10A, 10B, 12A, 12B, one (1)  
Reactor Building Chiller, two (2) Turbine Building Chillers, Emergency  
Diesel Generator 2A, 2C, and 1B Jacket Water Coolers, Lube Oil Coolers,  
and Air Coolers, and the Main Generator Stator Water Coolers. A separate  
report to be issued and distributed by SNC, with input from C&L, will  
include all eddy-current examinations.

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". A separate report for these examinations was prepared by SNC  
and was submitted to GPC engineering.

Seven (7) RWCU System welds were examined using ultrasonic examinations  
techniques (UT) due to augmented commitments made by GPC. These exams  
are not required by the ASME Section XI Code but were performed due to  
augmented commitments to NUREG 0313.

## 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-1636 dated May 20, 1991.

#### Category A

Thirty (30) Category A welds were examined using UT and PT examination techniques. No rejectable indications were detected.

#### Category C

Seven (7) Category C welds were examined using UT and PT NDE techniques. No rejectable indications were detected.

#### Category D

There are twenty-one (21) Category D circumferential welds at Plant Hatch Unit 2. The original examination scope included twelve (12) Category D welds. However new IGSCC indications were detected in feedwater weld 2B21-1FW-12AA-9 which resulted in examination scope expansion. By outage end all twenty one (21) Category D welds had been examined, twelve (12) using UT and PT/MT techniques and nine (9) welds were examined using UT only. No rejectable indications were detected other than weld 2B21-1FW-12AA-9 which was overlay repaired. The classification of this weld is now Category E per NUREG 0313 and will be examined as such in future outages.

Five (5) RINTSA welds were examined by UT and no rejectable indications were detected. Five (5) of these welds (50%) are examined each outage. These welds are categorized as "D" for NUREG 0313.

#### Category E

A preservice baseline examination was performed on weld 2B21-1FW-12AA-9 after the overlay repair. No rejectable indications were detected.

### Other Class 1 Examinations

Two-hundred-three (203) ASME Section XI component examinations were performed utilizing UT, MT, PT and VT as applicable. These examinations included; RPV welds, RPV bolting materials, piping welds, valve internals, pump 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. No reportable indications were observed. See the In-vessel Inspection section of this report for more detailed information.

Six (6) 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.

Nineteen (19) CRD's were replaced during the outage which facilitated visual examination (VT-1) of the bolts, studs, and nuts.

### Class II Examinations

Ninety (90) welds were examined using surface and/or volumetric NDE techniques as applicable. Four (4) of these welds were examined per NUREG 0619 (UT only), one (1) was examined per NUREG-0803 (MT), and the remaining eighty-five (85) were per ASME Section XI requirements. No reportable indications were detected during the examinations.

### Pressure Testing

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

### Augmented Examination

Seven (7) welds in the Class 3 portion of the RWCU System were examined by UT per a GPC commitment to the NRC for NUREG 0313 augmented requirements. No reportable indications were detected.

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

Four hundred and eighty-eight (488) component supports were VT examined during the outage. One hundred nineteen (119) 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.

Some support modifications were performed during the outage. GPC QC Department performed the VT-3 examination of these supports in conjunction with the modification activities. Credit is being taken for these support examinations and they are included in the itemized listing in the Component Support Section of this report.

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

Numerous repair/replacement activities were performed during the outage. Major repair/replacement activities included; replacement of the Reactor Recirculation Pump Internals and case machining (2B31-C001A,B), and weld overlay of Reactor Feedwater weld 2B21-1FW-12AA-9. And itemized list of the repair/replacement activities is included in the Repair/Replacement Section of this report.

### Reportable Indications

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



# Summary of Indications

<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Support 2E11-RHR-H150	Frozen spherical bearing, bearing slipping out of strut	Lubricated and centered bearing *MWO 2-91-1001
Support 2E11-RHR-H157	Misaligned strut, frozen spherical bearings	Aligned strut, lubricated bearings MWO 2-91-1002
Support 2E11-RHR-H197	Loose jam nut	Tightened nuts MWO 2-91-1002
Support 2E11-RHR-H719	Frozen spherical bearings	Lubricated bearings MWO 2-91-1002
Support 2E11-RHR-R291	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1001
Support 2E11-RHR-H200	Improper spring can setting	Reset spring can *MWO 2-91-998
Support 2E11-RHR-H161	Broken bearing race	Replaced bearing MWO 2-91-1079
Support 2E11-RHR-R248	Misaligned strut	Acceptable as is
Support 2E11-RHR-H190	Improper spring can setting, loose nuts	Reset spring can, tightened nuts MWO 2-91-1171
Support 2E11-RHR-H71	Improper spring can setting	Reset spring can MWO 2-91-1170
Support 2E11-RHR-R231	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1255
Support 2E11-RHR-H183	Improper spring can setting	Reset spring can MWO 2-91-1078
Support 2E11-RHR-H170	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1080
Support 2E11-RHR-R244	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1080
Support 2E11-RHR-H164	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1080
Support 2E11-RHR-H53	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1080
Support 2E11-RHR-R269	Unacceptable fluid level	Snubber tested satisfactory on *MWO 2-91-1160

<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Support 11-RHR-R290	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1166
Support 2E11-RHR-m186	Bearing race slippage	Re-centered bearing *MWO 2-91-1164
Support 2E11-RHR-R280	Misaligned strut	Aligned strut *MWO 2-91-1938
Support 2E11-RSW-R50	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1165
Support 2E11-RSW-R48	Misaligned strut	Aligned strut *MWO 2-91-1938
Support 2E41-HPCI-H68	Misaligned support	Aligned support *MWO 2-91-1312
Support 2E41-HPCI-A24	Loose nuts and washers	Tightened nuts *MWO 2-91-1313
Support 2E41-HPCI-R49	Bearing race slippage, frozen spherical bearings	Re-centered bearing, lubricated bearings *MWO 2-91-1310
Support 2E41-HPCI-H40	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1311
Support 2P41-ISW-H18	Frozen spherical bearings	Lubricated bearings MWO 2-91-1309
Support 2P41-ISW-R29	Frozen spherical bearings, minor metal loss	Lubricated bearings MWO 2-91-1308
Support 2P41-ISW-R26	Frozen spherical bearings, loose lock nut	Lubricated bearings, tightened nut MWO 2-91-1307
Support 2E21-CS-R57	Bearing race slippage	Re-centered bearing *MWO 2-91-1299
Support 2E21-CS-H21	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1298
Support 2E21-CS-R102	Misalignment of threaded strut paddles	Aligned strut paddles *MWO 2-91-1300
Support 2E11-RSW-R51	Loose nuts, frozen spherical bearings	Tightened nuts, lubricated bearings *MWO 2-91-1305
Support 2E11-RSW-H40	Loose nuts	Tightened nuts *MWO 2-91-1306



<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Support 2E11-RHR-R378	Low fluid level	Snubber tested satisfactory
Support 2B21-MSRV-R42	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1394
Support 2B21-MSRV-R47	Bearing race slippage, frozen spherical bearings	Re-centered bearing, lubricated bearings *MWO 2-91-1396
Support 2B21-MSRV-R48	Bearing race slippage, frozen spherical bearings	Re-centered bearing, lubricated bearings *MWO 2-91-1395
Support 2B21-MSRV-H12	Improper spring can setting	Reset spring can *MWO 2-91-1397
Support 2E11-RHR-H60	Bearing race slippage	Re-centered bearing *MWO 2-91-1393
Support 2E21-CS-H9	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1400
Support 2E21-CS-H11	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1400
Support 2E21-CS-R48	Broken bearing race, bearing race slippage	Repaired bearing race, re-centered bearing *MWO 2-91-1398
Support 2E21-CS-R89	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1400
Support 2E11-RHR-H367	Broken bearing race	Repaired bearing race *MWO 2-91-1408
Support 2B21-MSRV-R50	Loose jam nut, frozen spherical bearings	Tightened nut, lubricated bearings *MWO 2-91-1420
Support 2B21-MSRV-R41	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1420
Support 2B21- Torsion and Lateral	Loose pad of lubewright	Acceptable as is
Support 2E21-CS-R99	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1409
Support 2E51-RCIC-R115	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1410
Support 2P41-DSW-H3	Bearing race slippage	Re-centered bearing *MWO 2-91-1419

<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Support 2P41-DSW-R4	Bearing race slippage	Re-centered bearing *MWO 2-91-1419
Support 2P41-DSW-H7	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1419
Support 2P41-DSW-R12	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1419
Support 2P41-DSW-H13	Bearing race slippage	Re-centered bearing *MWO 2-91-1419
Support 2P41-DSW-R14	Frozen spherical bearing	Lubricated bearing *MWO 2-91-1419
Support 2P41-DSW-H15	Bearing race slippage	Re-centered bearing *MWO 2-91-1419
Support 2P41-DSW-R16	Bearing race slippage, loose nut	Re-centered bearing, tightened nut *MWO 2-91-1419
Support 2P41-DSW-H17	Frozen spherical bearing	Lubricated bearing *MWO 2-91-1419
Support 2P41-DSW-R26	Bearing race slippage	Re-centered bearing *MWO 2-91-1419
Support 2P41-DSW-R30	Bearing race slippage	Re-centered bearing *MWO 2-91-1419
Support 2E21-CS-H705	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1465
Support 2E21-CS-R47	Loose jam nuts	Tightened nuts *MWO 2-91-1464
Support 2E21-CS-H16	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1465
Support 2E11-RHR-H332	Improper spring can setting	Reset spring can MWO 2-91-1461
Support 2E11-RHR-H314	Improper spring can setting	Reset spring can MWO 2-91-1462
Support 2N11-MS-H12	Misalignment of strut to pipe clamp	Aligned strut *MWO 2-91-1486
Support 2N11-MS-H14	Improper spring can setting	Reset spring can MWO 2-91-1487

<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Support 2E41-HPCI-H88	Improper spring can setting	Reset spring can MWO 2-91-1484
Support 2G51-TD-H1	Improper spring can setting	Reset spring can MWO 2-91-1485
Support 2B21-MSRV-R51	Bearing race slippage	Re-centered bearing *MWO 2-91-1483
Support 2B21-RFW-H3	Loose jam nuts, misalignment of pipe clamp	Tightened nuts, aligned pipe clamp *MWO 2-91-1499
Support 2B21-RFW-H2	Misaligned strut	Aligned strut *MWO 2-91-1498
Support 2B21- Torsion & Lateral	Loose jam nuts	Tightened nuts *MWO 2-91-1500
Support 2E11-RHR-H321	Bearing race slippage	Re-centered bearing *MWO 2-91-1496
Support 2E11-RHR-R76	Misalignment of pipe clamp, loose nuts and bolts, insufficient thread engagement	Aligned pipe clamp, tightened nuts *MWO 2-91-1497
Support 2E41-HPCI-H26	Loose jam nuts	Tightened nuts *MWO 2-91-1501
Support 2E41-HPCI-R47	Bearing race slippage	Re-centered bearing *MWO 2-91-1502
Support 2E41-HPCI-R48	Bearing race slippage	Re-centered bearing *MWO 2-91-1503
Support 2N11-HPS-R67	Loose nut	Tightened nut *MWO 2-91-1508
Support 2N11-MS-R33	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1505
Support 2N11-MS-R40	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1507
Support 2N11-MS-R42	Mastic on piston rod	Cleaned piston rod *MWO 2-91-1504
Support 2E41-HPCI-H25	Improper spring can setting	Reset spring can *MWO 2-91-1533
Support 2E41-HPCI-R104	Loose nuts on support plate	Tightened nuts *MWO 2-91-1533

<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Support 2B21-RFW-H4	Improper spring can setting	Reset spring can MWO 2-91-1532
Support 2B21-MS-H7	Loose nuts	Tightened nuts MWO 2-91-1532
Support 2E51-RCIC-H103	Misaligned strut	Aligned strut *MWO 2-91-1531
2RC-A Pump-Flange Surface	Damaged threads	None, acceptable per engineering evaluation
Support 2E21-CS-R54	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1728
Support 2E11-RSW-R16	Misaligned strut paddles	Aligned strut paddles *MWO 2-91-1861
Support 2B21-RFW-H5	Improper spring can setting	Reset spring can *MWO 2-91-1727
Support 2B21-MS-H3	Improper spring can setting	Reset spring can *MWO 2-91-1727
Support 2B21-MS-R44	Bearing race slippage	Re-centered bearing *MWO 2-91-1726
Steam Dryer #14 Bank Weld	6.19" long linear indication	Repaired *MWO 2-91-1737
Steam Dryer #7 Bank Weld	1" X 2" area of linear indications	None required
Weld 2B21-1FW-12AA-9	UT linear indications	Weld overlay MWO 2-91-1825
Support 2P41-SW-H91	Loose nut/bolt	Tightened nut MWO 2-91-1821
Support 2P41-SW-H92	Bent strut, frozen spherical bearings	Repaired strut, lubricated bearings MWO 2-91-1821
Support 2P41-SW-R192	Frozen spherical bearings	Lubricated bearings MWO 2-91-1821
Support 2E41-HPCI-R102	Loose nuts on anchor plate	Tightened nuts MWO 2-91-1862
Support 2B21-MSRV-H11	Loose nut	Tightened nut *MWO 2-91-1864
Support 2P41-DSW-R43	Bearing race slippage	Re-centered bearing *MWO 2-91-1863



<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Support 2P41-DSW-H5	Frozen spherical bearing, bearing race slippage	Lubricated bearing, re-centered bearing *MWO 2-91-1889
Support 2P41-DSW-R6	Frozen spherical bearing	Lubricated bearing *MWO 2-91-1889
Support 2E11-RHR-R75	Misaligned strut, frozen spherical bearings	Aligned strut, lubricated bearings *MWO 2-91-1939
Support 2E51-RCIC-R71	Bearing slippage	Re-centered bearing *MWO 2-91-1940
Support 2B21-MSRV-H15	Improper spring can setting	Reset spring can *MWO 2-91-1982
Support 2B21-MSRV-R114	Misaligned strut	Aligned strut *MWO 2-91-1983
Support 2E11-RSW-R13	Cracked washer, frozen spherical bearings	Lubricated bearings *MWO 2-91-1984
Support 2E11-RSW-R14	Frozen spherical bearings	Lubricated bearings *MWO 2-91-1984
Support 2E11-RHR-H168	Loose nut on pipe clamp	Tightened nut *MWO 2-91-1984
Weld overlay 2B21-1FW-12AA-9	UT linear indication	Acceptable as is SIAI
Support 2E41-HPCI-R51	Loose washer/nuts	Tightened nuts MWO 2-91-2061
Support 2E41-HPCI-R46	Loose jam nuts, frozen spherical bearings	Tightened nuts, lubricated bearings MWO 2-91-2061
Support 2E41-HPCI-R53	Gap between wall and wall plate, loose washers	Repaired support MWO 2-91-2207
Support 2B21-MSRV-H8	Bent rod, arc strikes	Acceptable as is per GPC Engineering evaluation
Support 2E11-RHR-R300	Spherical bearing damage	Repaired bearing MWO 2-91-2247
Support 2E11-RHR-HR207	Loose nuts and bolts	Tightened nuts MWO 2-91-2247
Support 2E11-RHR-R301	Spherical bearing damage	Repaired bearing MWO 2-91-2247

<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Support 2E11-RHR-R84	Loose nuts	Tightened nuts MWO 2-91-2245
Support 2N11-MS-H21	Improper spring can setting	Reset spring can MWO 2-91-2274
Support 2B31-HA2	Four cracks in plate to I-beam welds	Repaired and modified MWO 2-91-2334
Support 2E41-HPCI-A709	Loose nuts	Tightened nuts MWO 2-91-2166

\* These MWO's did not receive initial or 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



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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
B7.50 B-G-2 ASME	A-3/03	2B21-1CHSV-1FB FLANGE BOLTING ON CLOSURE HEAD VENT	VT-H-710/2	N/A	S91H2V592	SAT	
B1.30 B-A ASME	A-1/04	2C-1 VESSEL-TO-FLANGE 2N4A(45) TO 2N9(146) CLOCKWISE	UT-H-410/4	62-H	S91H2C140 S91H2U194 S91H2C141 S91H2U192 S91H2C139 S91H2U193	UT CAL NRI UT CAL NRI UT CAL NRI	EXAMINED FROM VESSEL SIDE ONLY DUE TO FLANGE CONFIGURATION.
B8.10 B-H ASME	A-1A/04	2C-6 SUPPORT SKIRT-2N1A (0 DEGREE) TO 2N2D (120 DEGREE) C.W.	MT-H-500/4 UT-H-410/4	61-H	S91H2M106 S91H2C240 S91H2U322	NRI UT CAL NRI	
B1.22 B-A ASME	A-3/03	2HC-1-A MERIDIONAL WELD CLOSURE HEAD	UT-H-410/4	64-H	S91H2C022 S91H2U034 S91H2C025 S91H2U037 S91H2C028 S91H2U041	UT CAL NRI UT CAL NRI UT CAL NRI	
B3.90 B-D ASME	A-1/04	2N1A A LOOP RECIRCULATION OUTLET SHELL TO NOZZ	UT-H-410/4	61-H	S91H2C191 S91H2U254 S91H2C195 S91H2U257 S91H2C193 S91H2U255	UT CAL NRI UT CAL NRI UT CAL NRI	LIMITED SCAN DUE TO CONFIGURATION

E.L. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
B3.100 B-D ASME	A-1/04	2N1A A LOOP RECIRCULATION OUTLET NOZZLE IR	UT-H-480/3	61-H	S91H2C194 S91H2U256	UT CAL NR1	
B3.90 B-D ASME	A-1/04	2N2E B LOOP RECIRCULATION INLET NOZZ TO SHELL	UT-H-410/4	61-H	S91H2C049 S91H2U069 S91H2C047 S91H2U067 S91H2C051 S91H2U071	UT CAL NR1 UT CAL NR1 UT CAL NR1	EXAMINED FROM SHELL SIDE ONLY DUE TO NOZZLE CONFIGURATION
B3.100 B-D ASME	A-1/04	2N2E B LOOP RECIRCULATION INLET NOZZLE IR	UT-H-480/3	61-H	S91H2C053 S91H2U073	UT CAL NR1	LIMITED EXAM DUE TO CONFIGURATION.
-- -- NUREG-03130	-	2N2F RINTSA WELD	UT-H-415/4	125-H	S91H2C094 S91H2U116	UT CAL R1 GEOMETRY	
-- -- NUREG-03130	-	2N2G RINTSA WELD	UT-H-415/4	125-H	S91H2C090 S91H2U117	UT CAL R1 GEOMETRY	
-- -- NUREG-03130	-	2N2H RINTSA WELD	UT-H-415/4	125-H	S91H2C091 S91H2U118	UT CAL R1 GEOMETRY	LIMITED EXAM DUE TO CONFIGURATION.

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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
B3.90 B-D ASME	A-1/04	2N2H A LOOP RECIRCULATION INLET NOZZ TO SHELL	UT-H-410/4	61-H	S91H2C050 S91H2U070 S91H2C048 S91H2U068 S91H2C052 S91H2U072	UT CAL NRI UT CAL NRI UT CAL NRI	EXAMINED FROM SHELL SIDE ONLY DUE TO NOZZLE CONFIGURATION.
B3.100 B-D ASME	A-1/04	2N2H A LOOP RECIRCULATION INLET NOZZLE IR	UT-H-480/3	61-H	S91H2C054 S91H2U074	UT CAL NRI	
-- -- NUREG-03130	-	2N2J RINTSA WELD	UT-H-415/4	125-H	S91H2C092 S91H2U119	UT CAL RI GEOMETRY	
-- -- NUREG-03130	-	2N2K RINTSA WELD	UT-H-415/4	125-H	S91H2C093 S91H2U120	UT CAL RI GEOMETRY	
B3.90 B-D ASME	A-1/04	2N3A A LOOP MAIN STEAM OUTLET SHELL TO NOZZ	UT-H-410/4	62-H	S91H2C219 S91H2U297 S91H2C220 S91H2U298 S91H2C221 S91H2U299	UT CAL NRI UT CAL NRI UT CAL NRI	LIMITED EXAMINATION DUE TO CONFIGURATION
B3.100 B-D ASME	A-1/04	2N3A A LOOP MAIN STEAM OUTLET NOZZLE IR	UT-H-480/3	61-H	S91H2C222 S91H2U300	UT CAL NRI	LIMITED EXAM DUE TO CONFIGURATION.

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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
B3.90 B-D ASME	A-1/04	2N3D D LOOP MAIN STEAM OUTLET SHELL TO NOZZ	UT-H-410/4	62-H	S91H2C175 S91H2U233 S91H2C176 S91H2U234 S91H2C177 S91H2U235	UT CAL NRI UT CAL NRI UT CAL NRI	LIMITED EXAMINATION DUE TO CONFIGURATION
B3.100 B-D ASME	A-1/04	2N3D D LOOP MAIN STEAM OUTLET NOZZLE IR	UT-H-480/3	61-H	S91H2C178 S91H2U236	UT CAL NRI	
B3.90 B-D ASME	A-1/04	2N4D B-D LOOP FEEDWATER INLET NOZZ TO SHELL	UT-H-410/4	62-H	S91H2C213 S91H2U291 S91H2C214 S91H2U292 S91H2C215 S91H2U293 S91H2C216 S91H2U294	UT CAL NRI UT CAL NRI UT CAL NRI UT CAL NRI	NO UP SCAN DUE TO CONFIGURATION
-- -- 1EB 80-13	-	2N5A SPARGER A-A LOOP NOZZLE	VT-H-750/3	N/A	S91H2V506	SAT	
-- -- 1EB 80-13	-	2N5B SPARGER A-B LOOP NOZZLE	VT-H-750/3	N/A	S91H2V506	SAT	

E.I. HATCH UNIT 2 SPRING 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 B-D ASME	A-3/03	2N6A A LOOP RHR HEAD SPRAY NOZZLE TO HEAD	UT-H-410/4	64-H	S91H2C023 S91H2U035 S91H2C026 S91H2U038 S91H2C029 S91H2U042	UT CAL NRI UT CAL NRI UT CAL NRI	EXAMINED FROM VESSEL SIDE ONLY DUE TO CONFIGURATION
B3.100 B-D ASME	A-3/03	2N6A A LOOP RHR HEAD SPRAY NOZZLE IR	UT-H-480/3	64-H	S91H2C031 S91H2U046	UT CAL NRI	LIMITED EXAM DUE TO CONFIGURATION.
B3.90 B-D ASME	A-3/03	2N7 MAIN STEAM VENT NOZZLE	UT-H-410/4	64-H	S91H2C024 S91H2U036 S91H2C027 S91H2U039 S91H2C030 S91H2U043	UT CAL NRI UT CAL RI UT CAL RI	EXAMINED FROM VESSEL SIDE ONLY DUE TO CONFIGURATION
B3.100 B-D ASME	A-3/03	2N7 MAIN STEAM VENT NOZZLE IR	UT-H-480/3	64-H	S91H2C032 S91H2U047	UT CAL NRI	LIMITED EXAM DUE TO CONFIGURATION.
B3.90 B-D ASME	A-1/04	2N9 CONTROL ROD DRIVE INLET NOZZ TO SHELL	UT-H-410/4	62-H	S91H2C231 S91H2U310 S91H2C232 S91H2U311 S91H2C233 S91H2U312	UT CAL NRI UT CAL NRI UT CAL NRI	NO UP SCAN DUE TO CONFIGURATION

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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
B3.100 B-D ASME	A-1/04	2N9 CONTROL ROD DRIVE INLET NOZZLE IR	UT-H-480/3	61-H	S91H2C238 S91H2U318	UT CAL NRI	LIMITED EXAM DUE TO CONFIGURATION
B6.40 B-G-1 ASME	A-33/01	2LIG-3 THRU 20 FLANGE LIGAMENTS	UT-H-419/0	23-H	S91H2U345 S91H2C249	NRI UT CAL	
B6.10 B-G-1 ASME	A-33/01	2NUT-7 THRU 12 CLOSURE HEAD NUTS	MT-H-501/4	N/A	S91H2M083	NRI	
B6.10 B-G-1 ASME	A-33/01	2NUT-41 THRU 44 CLOSURE HEAD NUTS	MT-H-501/4	N/A	S91H2M085	NRI	
B6.30 B-G-1 ASME	A-33/01	2STUD-7 THRU 20 CLOSURE HEAD STUDS	UT-H-421/3	23-H	S91H2C250 S91H2U346	UT CAL NRI	
B6.30 B-G-1 ASME	A-33/01	2STUD-41 & 42 CLOSURE HEAD STUDS	MT-H-501/4 UT-H-421/3	23-H	S91H2M074 S91H2C046 S91H2U066	NRI UT CAL NRI	
B6.30 B-G-1 ASME	A-33/01	2STUD-6, 22 & 33 CLOSURE HEAD STUDS	UT-H-421/3	23-H	S91H2C251 S91H2U347	UT CAL NRI	

5.1. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLCX	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
B6.50 B-G-1 ASME	A-33/01	2WASHER-7 THRU 20 CLOSURE HEAD WASHERS	VT-H-710/2	N/A	S91H2V277	SAT	
B6.50 B-G-1 ASME	A-33/01	2WASHER-41 THRU 44 CLOSURE HEAD WASHERS	VT-H-710/2	N/A	S91H2V277	SAT	
B15.10 B-P ASME	-	CLASS 1 PRESSURE RETAINING BOUNDARY LEAKAGE TEST	VT-H-720/3	N/A	S91H2V593	SAT	SEE PRESSURE TEST SECTION OF THIS REPORT
B13.10 B-N-1 ASME	-	RPV EXAMINATION OF VESSEL INTERIOR	VT-H-750/3	N/A	S91H2V506	RI LINEAR INDICATIONS	SEE INF # 191H2039 THESE INDICATIONS WERE EVALUATED TO BE ACCEPTABLE FOR CONTINUED OPERATION. REF. GE LETTER G-GPC-1-179
-- -- NRC	A-2/01	2LOCATION-1 THRU 20 RPV HEAD THICKNESS MEASUREMENTS	UT-H-460/2	30-H	S91H2U051	N/A	THICKNESS
B8.10 B-H ASME	A-32/00	S83 STABILIZER BRACKET NO. 3	PT-H-600/2	N/A	S91H2P070	NRI	LIMITED EXAM DUE TO CONFIGURATION
B8.10 B-H ASME	A-32/00	S84 STABILIZER BRACKET NO. 4	PT-H-600/2	N/A	S91H2P071	NRI	LIMITED EXAM DUE TO CONFIGURATION

E.L. HATCH UNIT & SPRING 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RPV EXAMINATIONS</u>							
B6.10 B-G-1 ASME	A-33/01	2NUT-13, 14, 18, 19, 20 CLOSURE HEAD NUTS	MT-H-501/4	N/A	S91H2M055	NRI	
B6.10 B-G-1 ASME	A-33/01	2NUT-15, 16, 17 CLOSURE HEAD NUTS	MT-H-501/4	N/A	S91H2M084	NRI	
B6.30 B-G-1 ASME	A-33/01	2STUD-43 & 44 CLOSURE HEAD STUDS	MT-H-501/4 UT-H-421/3	23-H	S91H2M073 S91H2C046 S91H2U066	NRI UT CAL NRI	
B10.10 B-K-1 ASME	A-10/04	2B21-1FW-12AA-3PL-1 THRU 8 DEVICE 2B21-RFW-R30	MT-H-500/4	N/A	S91H2M071	NRI	
B5.130 B-F NUREG-03130	A-10/04	2B21-1FW-12AA-8 TRANSITION PIECE TO SAFE-END EXTENSION	PT-H-600/2 UT-H-409/7 UT-H-810/0	88-H 78-H	S91H2P034 S91H2C148 S91H2U200 S91H2C149 S91H2U201 S91H2C150 S91H2U202	NRI UT CAL NRI UT CAL NRI UT CAL NRI	
B9.11 B-J NUREG-03130	A-10/04	2B21-1FW-12AA-9 SAFE-END EXTENSION TO SAFE-END	PT-H-600/2 UT-H-409/7 UT-H-810/0	78-H	S91H2P033 S91H2C129 S91H2U176 S91H2U177 S91H2U188 S91H2U274	NRI UT CAL RI LINEAR IND. SIZING SIZING N/A	SEL INF # 191H2040 WELD OVERLAY REPAIR APPLIED.



E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
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-0313E	A-17/04	2B21-1FW-12AA-9 SAFE-END EXTENSION TO SAFE-END OVERLAY	PT-H-600/2 UT-H-408/3 UT-H-808/1	135-H	S91H2P069 S91H2P072 S91H2P054 S91H2U2B5 S91H2C212 S91H2U2B6 S91H2C217 S91H2U295 S91H2U309	RI NRI NRI N/A THICKNESS UT CAL UT CAL UT CAL RI N/A LINEAR IND SIZING	SEE INF # 101H2051 ACCEPTABLE AS IS PER SIAT.
B5.130 B-F NUREG-0313D	A-10/04	2B21-1FW-12AA-10 SAFE-END TO TRANSITION PIECE	PT-H-600/2 UT-H-409/7 UT-H-810/0	78-H 53-H	S91H2P032 S91H2C151 S91H2U203 S91H2C157 S91H2U211 S91H2C158 S91H2U212	NRI UT CAL NRI UT CAL NRI UT CAL NRI	
B5.130 B-F NUREG-0313D	A-10/04	2B21-1FW-12AB-11 TRANSITION PIECE TO SAFE-END EXTENSION	PT-H-600/2 UT-H-409/7 UT-H-810/0	88-H 78-H	S91H2P031 S91H2C159 S91H2U213 S91H2C160 S91H2U214 S91H2C161 S91H2U215	NRI UT CAL NRI UT CAL NRI UT CAL NRI	
B9.11 B-J NUREG-0313D	A-10/04	2B21-1FW-12AB-12 SAFE-END EXTENSION TO SAFE-END	PT-H-600/2 UT-H-409/7 UT-H-810/0	76-H	S91H2P030 S91H2C130 S91H2U178	NRI UT CAL 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
FEEDWATER SYSTEM							
85.130 B-F NUREG-03130	A-10/04	2B21-1FW-12BC-13 SAFE-END TO TRANSITION PIECE	PT-H-600/2 UT-H-409/7 UT-H-810/0	7B-H 53-H	S91H2P029 S91H2C131 S91H2U179 S91H2C132 S91H2U182 S91H2C147 S91H2U*99	NRI UT CAL NRI UT CAL NRI UT CAL NRI	
89.11 B-J ASME	A-11/05	2B21-1FW-12BC-1 REDUCER TO ELBOW	MT-H-500/4 UT-H-400/10	14B-H	S91H2M111 S91H2C208 S91H2U280 S91H2U281	NRI UT CAL RI N/A THICKNESS	
85.130 B-F NUREG-03130	A-11/05	2B21-1FW-12BC-11 TRANSITION PIECE TO SAFE-END EXTENSION	LMT-UT-50/6 UT-H-409/7	8B-H 7B-H	S91H2C200 S91H2U262 S91H2C201 S91H2U263	UT CAL RI UT CAL RI	
89.11 B-J NUREG-03130	A-11/05	2B21-1FW-12BC-12 SAFE-END EXTENSION TO SAFE-END	LMT-UT-50/6 UT-H-409/7	7B-H	S91H2C192 S91H2U252	UT CAL RI	
85.130 B-F NUREG-03130	A-11/05	2B21-1FW-12BC-13 SAFE-END TO TRANSITION PIECE	LMT-UT-50/6 UT-H-409/7	7B-H 53-H	S91H2C202 S91H2U264 S91H2C203 S91H2U266	UT CAL RI UT CAL RI	

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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>FEEDWATER SYSTEM</u>							
B5.130 B-F NUREG-03130	A-11/05	2B21-1FW-12B0-8 TRANSITION PIECE TO SAFE-END EXTENSION	UT-H-409/7 UT-H-810/0	88-H 78-H	S91H2C184 S91H2U242 S91H2C185 S91H2U243 S91H2C186 S91H2U244	UT CAL NRI UT CAL NRI UT CAL NRI	
B9.11 B-J NUREG-03130	A-11/05	2B21-1FW-12B0-9 SAFE-END EXTENSION TO SAFE-END	UT-H-409/7 UT-H-810/0	78-H	S91H2C187 S91H2U245	UT CAL NRI	
B5.130 B-F NUREG-03130	A-11/05	2B21-1FW-12B0-10 SAFE-END TO TRANSITION PIECE	UT-H-409/7 UT-H-810/0	78-H 53-H	S91H2C188 S91H2U246 S91H2C189 S91H2U247 S91H2C190 S91H2U248	UT CAL NRI UT CAL NRI UT CAL NRI	
B9.11 B-J ASME	A-12/05	2B21-1FW-15A-1 VALVE TO PIPE	MT-H-500/4 UT-H-400/10	77-H	S91H2M091 S91H2C121 S91H2U160 S91H2C122 S91H2U161 S91H2U162	NRI UT CAL RI GEOMETRY UT CAL RI GEOMETRY N/A THICKNESS	EXAMINED PIPE SIDE ONLY DUE TO VALVE CONFIGURATION
B9.11 B-J ASME	A-13/05	2B21-1FW-15B-2A PIPE TO VALVE	MT-H-500/4 UT-H-400/10	77-H	S91H2M062 S91H2C098 S91H2U125 S91H2C100 S91H2U126 S91H2U128	NRI UT CAL NRI UT CAL RI GEOMETRY N/A THICKNESS	EXAMINED PIPE SIDE ONLY DUE TO VALVE CONFIGURATION

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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>FEEDWATER SYSTEM</u>							
B9.11 B-J ASME	A-13/05	2B21-1FW-18B-3A VALVE TO PIPE	MT-H-500/4 UT-H-400/10	77-H	S91H2M061 S91H2C099 S91H2U124 S91H2C101 S91H2U127 S91H2U129	NRI  NRI UT CAL RI N/A	EXAMINED FROM PIPE SIDE ONLY DUE TO VALVE.
<u>MAIN STEAM SYSTEM</u>							
B9.11 B-J ASME	A-5/01	2B21-1MS-8A-ASR-1 BRANCH CONNECTION TO PIPE	MT-H-500/4 UT-H-400/10	81-H	S91H2M120 S91H2C242 S91H2U328 S91H2C243 S91H2U329 S91H2U338	NRI  NRI UT CAL N/A	NO UP SCAN DUE TO BRANCH CONNECTION
B9.11 B-J ASME	A-5/01	2B21-1MS-8A-ASR-2 PIPE TO FLANGE	MT-H-500/4 UT-H-400/10	81-H	S91H2M119 S91H2C244 S91H2U330 S91H2C245 S91H2U331 S91H2U337	NRI  NRI UT CAL N/A	NO DOWN SCAN DUE TO FLANGE CONFIGURATION
B7.50 B-G-2 ASME	A-5/01	2B21-1MS-8B-ASR-2FB FLANGE BOLTING	VT-H-710/2	N/A	S91H2M461	SAT	
B7.50 B-G-2 ASME	A-5/01	2B21-1MS-8B-OSR-2FB FLANGE BOLTING	VT-H-710/2	N/A	S91H2M462	SAT	

E-1. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>MAIN STEAM SYSTEM</u>							
B7.50 B-G-2 ASME	A-5/01	2B21-1MS-8C-CSR-2FB FLANGE BOLTING	MT-N-710/2	N/A	S91H2M463	SAT	
B9.11 B-J ASME	A-6/05	2B21-1MS-24A-1 NOZZLE TO TRANSITION PIECE	MT-N-500/4 UT-N-400/10	12-H	S91H2M066 S91H2C107 S91H2U155	NRI UT CAL NRI	
B10.10 B-K-1 ASME	A-6/05	2B21-1MS-24A-5PL-1 THRU 4 DEVICE 2B21-MS-H1	MT-N-500/4	N/A	S91H2M065	NRI	
B9.11 B-J ASME	A-6/05	2B21-1MS-24A-20 PIPE TO VALVE	MT-N-500/4 UT-N-400/10	147-H	S91H2M090 S91H2C123 S91H2U163 S91H2C124 S91H2U164 S91H2U165	NRI UT CAL NRI UT CAL R1 N/A	EXAMINED PIPE SIDE ONLY DUE TO VALVE CONFIGURATION
B9.11 B-J ASME	A-7/06	2B21-1MS-24B-2 TRANSITION PIECE TO PIPE	MT-N-500/4 UT-N-400/10	12-H 147-H	S91H2M067 S91H2C108 S91H2U136 S91H2C125 S91H2U166 S91H2U167	NRI UT CAL R1 UT CAL R1 N/A	
B10.10 B-K-1 ASME	A-7/06	2B21-1MS-24B-5PL-1 THRU 4 DEVICE 2B21-MS-H4	MT-N-500/4	N/A	S91H2M069	NRI	

E.J. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
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 B-J ASME	A-7/06	2B21-1MS-24B-14 ELBOW TO PIPE	MT-H-500/4 UT-H-400/10	147-H	S91H2M060 S91H2C117 S91H2J150 S91H2C118 S91H2U151 S91H2U152	NR1 UT CAL NR1 UT CAL RI GEOMETRY N/A THICKNESS	EXAMINED FROM ELBOW SIDE ONLY DUE TO RESTRAINT INTERFERENCE.
B9.11 B-J ASME	A-8/07	2B21-1MS-24C-3 PIPE TO ELBOW	MT-J-500/4 UT-H-400/10	147-H	S91H2M059 S91H2C087 S91H2U113	NR1 UT CAL NR1	
B10.10 B-K-1 ASME	A-8/07	2B21-1MS-24C-SPL-1 THRU 4 DEVICE 2B21-MS-H7	MT-H-500/4	N/A	S91H2M065	NR1	
B9.11 B-J ASME	A-8/07	2B21-1MS-24C-13 PIPE TO ELBOW	MT-H-500/4 UT-H-400/10	147-H	S91H2M109 S91H2C205 S91H2U275 S91H2U276	NR1 UT CAL NR1 N/A THICKNESS	
B9.11 B-J ASME	A-9/06	2B21-1MS-24D-5 PIPE TO PIPE	MT-H-500/4 UT-H-400/10	147-H	S91H2M072 S91H2C-28 S91H2U170 S91H2U171	NR1 UT CAL RI GEOMETRY N/A THICKNESS	
B9.11 B-J ASME	A-9/06	2B21-1MS-24D-8 PIPE TO ELBOW	MT-H-500/4 UT-H-400/10	147-H	S91H2M078 S91H2C088 S91H2U114 S91H2U138	NR1 UT CAL RI GEOMETRY N/A THICKNESS	



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

ASME	EXAM	EXAMINATION	CAL	EXAM/CAL	RESULTS	REMARKS
SECTION XI	FIGURE NO.	EXAMINATION/ARCA	PROCEDURE	SHEET NO.		
<u>MAIN STEAM SYSTEM</u>						
B10.10 B-K-1 ASME	A-9/06	ZB21-1MS-240-99L-1 THRU 8 DEVICE ZB21-MS-R37	MT-H-500/4 N/A	S91R2M087	NRI	
B9.11 B-J ASME	A-9/06	ZB21-1MS-240-16 45-DEGREE ELBOW TO PIPE	MT-H-500/4 UT-H-400/10	S91R2M077 S91R2C109 S91R2U139 S91R2C110 S91R2U140 S91R2U141	NRI UT CAL RI UT CAL RI N/A	EXAMINED FROM ELBOW SIDE ONLY DUE TO RESTRAINT INTERFERENCE.
B9.11 B-J ASME	A-9/06	ZB21-1MS-240-18 VALVE TO PIPE	MT-H-500/4 UT-H-400/10	S91R2M089 S91R2M094 S91R2C111 S91R2U142 S91R2C112 S91R2U143 S91R2U144	RI NRI RI UT CAL GEOMETRY UT CAL THICKNESS	LINEAR SURFACE INDICATION DETECTED, ACCEPTABLE AFTER FLAPPING. EXAMINED FROM PIPE SIDE ONLY DUE TO VALVE CONFIGURATION.
<u>REACTOR COOLANT SYSTEM</u>						
B6.180 B-G-1 ASME	-	ZRC-A PUMP BOLT (SPARE) PUMP BOLTING	UT-H-420/4	S91R2C055 S91R2U075	UT CAL NRI	
B6.180 B-G-1 ASME	-	ZRC-B PUMP BOLT (SPARE) PUMP BOLTING	UT-H-420/4	S91R2C056 S91R2U076	UT CAL NRI	
B5.10 B-F NUREG-03130	A-37/00	ZB31-1RC-4-P-A-1 NOZZLE 2N8A TO SAFE-END	PT-H-600/2 UT-H-409/7	S91R2P035 S-2C102 S-2C130	NRI UT CAL NRI	SHEAR WAVE EXAMINATION FROM C/S SIDE ONLY, NO DOWN SCAN.

E.I. HATCH UNIT 2 SPRING 1993 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR COOLANT SYSTEM</u>							
B9.11 B-J NUREG-0313D	A-37/00	2831-1RC-4JP-A-2 SAFE-END TO PENETRATION SEAL	PT-H-600/2 UT-H-400/10	B0-H	S91H2P036 S91H2C086 S91H2U112	NRI UT CAL RI GEOMETRY	EXAMINED FROM SAFE-END ONLY DUE TO CONFIGURATION.
B5.10 B-F NUREG-0313D	A-37/00	2831-1RC-4JP-B-1 NOZZLE 2N08 TO SAFE-END	PT-H-600/2 UT-H-409/7	120-H 121-H	S91H2P038 S91H2C103 S91H2U131 S91H2C104 S91H2U132 S91H2C105 S91H2U133	NRI UT CAL NRI UT CAL NRI UT CAL NRI	ONE SIDED EXAM DUE TO DISSIMILAR METALS
B9.11 B-J NUREG-0313D	A-37/00	2831-1RC-4JP-B-2 SAFE-END TO PENETRATION SEAL	PT-H-600/2 UT-H-400/10	B0-H	S91H2P037 S91H2C106 S91H2U134	NRI UT CAL NRI	
B9.11 B-J NUREG-0313A	A-14/03	2831-1RCM-12AG-1 MANIFOLD TO PIPE	PT-H-600/2 UT-H-400/10 UT-H-800/1	132-H	S91H2P025 S91H2C079 S91H2U103 S91H2C080 S91H2U104 S91H2C095 S91H2U121 S91H2C096 S91H2U122	NRI UT CAL NRI UT CAL NRI UT CAL NRI UT CAL RI GEOMETRY	NO UP SCAN DUE TO CONFIGURATION
B9.12 B-J NUREG-0313A	A-14/03	2831-1RCM-12AG-11D LONGITUDINAL SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/2 UT-H-400/10	132-H	S91H2P026 S91H2C097 S91H2U123	NRI UT CAL RI GEOMETRY	

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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR COOLANT SYSTEM</u>							
B9.11 B-J NUREG-0313A	A-15/03	2831-1RCM-128A-1 MANIFOLD TO PIPE	PT-H-600/2 UT-H-400/10	132-H	S91H2P014 S91H2C018 S91H2U030 S91H2C014 S91H2U026	NRI  UT CAL  UT CAL  NRI	EXAMINED FROM PIPE SIDE ONLY DUE TO MANIFOLD CONFIGURATION.
B9.12 B-J NUREG-0313A	A-15/03	2831-1RCM-128A-1LD LONGITUDINAL SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/2 UT-H-400/10	132-H	S91H2P016 S91H2C019 S91H2U031	NRI  UT CAL  NRI	
B9.12 B-J NUREG-0313A	A-15/03	2831-1RCM-128A-1LU LONGITUDINAL SEAM WELD EXTENDING UPSTREAM	PT-H-600/2 UT-H-400/10	129-H	S91H2P015 S91H2C020 S91H2U033	NRI  UT CAL  NRI	
B9.12 B-J NUREG-0313A	A-15/03	2831-1RCM-128A-2LU LONGITUDINAL SEAM WELD EXTENDING UPSTREAM	PT-H-600/2 UT-H-400/10	132-H	S91H2P052 S91H2C133 S91H2U180	NRI  UT CAL  NRI	
B9.11 B-J NUREG-0313A	A-15/03	2831-1RCM-128E-1 MANIFOLD TO PIPE	PT-H-600/2 UT-H-400/10	132-H	S91H2P011 S91H2C016 S91H2U028 S91H2C015 S91H2U027	NRI  UT CAL  UT CAL  NRI	EXAMINED FROM PIPE SIDE ONLY DUE TO MANIFOLD CONFIGURATION.
B9.12 B-J NUREG-0313A	A-15/03	2831-1RCM-128E-1LD LONGITUDINAL SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/2 UT-H-400/10	132-H	S91H2P013 S91H2C017 S91H2U029	NRI  UT CAL  NRI	

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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR COOLANT SYSTEM</u>							
B9.12 B-J NUREG-0313A	A-15/03	2B31-1RC-12BR-A-5 LONGITUDINAL SEAM WELD EXTENDING UPSTREAM	PT-H-600/2 UT-H-400/10	129-H	S91H2P012 S91H2C021 S91H2U032	NRI  UT CAL NRI	
B5.10 B-F NUREG-0313C	A-15/03	2B31-1RC-12BR-B-5 S-E TO NOZZLE 2N2A	PT-H-600/2 UT-H-409/7 UT-H-810/0	85-H 108-H	S91H2P004 S91H2C064 S91H2U085 S91H2C062 S91H2U086 S91H2C063 S91H2U087	NRI  UT CAL NRI UT CAL NRI UT CAL NRI	
B5.10 B-F NUREG-0313C	A-15/03	2B31-1RC-12BR-B-5 S-E TO NOZZLE 2N2B	PT-H-600/2 UT-H-409/7 UT-H-810/0	85-H 108-H	S91H2P001 S91H2C066 S91H2U088 S91H2C067 S91H2U087 S91H2C065 S91H2U090	NRI  UT CAL NRI UT CAL NRI UT CAL NRI	
B5.10 B-F NUREG-0313C	A-15/03	2B31-1RC-12BR-C-5 S-E TO NOZZLE 2N2C	PT-H-600/2 UT-H-409/7 UT-H-810/0	85-H 108-H	S91H2P002 S91H2C069 S91H2U091 S91H2C068 S91H2U092 S91H2C070 S91H2U093	NRI  UT CAL NRI UT CAL NRI UT CAL NRI	

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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR COOLANT SYSTEM</u>							
B5.10 B-F NUREG-0313C	A-15/03	2B31-1RC-12BR-D-5 S-E TO NOZZLE 2N2D	PT-H-600/2 UT-H-409/7 UT-H-810/0	85-H 108-H	S91H2P009 S91H2C045 S91H2U079 S91H2C057 S91H2U080 S91H2C060 S91H2U081	NRI  RT UT CAL GEOMETRY UT CAL  NRI UT CAL  NRI	
B5.10 B-F NUREG-0313C	A-15/03	2B31-1RC-12BR-E-5 S-E TO NOZZLE 2N2E	PT-H-600/2 UT-H-409/7 UT-H-810/0	85-H 108-H	S91H2P007 S91H2C061 S91H2U082 S91H2C059 S91H2U084 S91H2C058 S91H2U083	NRI  UT CAL  NRI UT CAL UT CAL UT CAL NRI	
B9.11 B-J NUREG-0313A	A-14/03	2B31-1RC-A-22A-1 CROSS TO MANIFOLD	PT-H-600/2 UT-H-400/19	129-H	S91H2P021 S91H2C034 S91H2U049 S91H2C033 S91H2U048	NRI  UT CAL  NRI UT CAL NRI	EXAMINED FROM MANIFOLD SIDE ONLY DUE TO CONFIGURATION.
B9.12 B-J NUREG-0313A	A-14/03	2B31-1RC-22A-1LD LONGITUDINAL SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/2 UT-H-400/10	129-H	S91H2P022 S91H2C035 S91H2U050	NRI  UT CAL  NRI	

E.I. MATCH UNIT 2 SPRING 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 COOLANT SYSTEM							
B5.10	A-16/04	2B31-1RC-28A-1	PT-H-600/2	B4-H	S91R2P006	NRI	
B-F		NOZZLE 2N1A TO S-E	UT-H-400/7	29-H	S91R2C071	UT CAL	
NUREG-0313C			UT-H-810/0		S91R2U004	NRI	
					S91R2C072	UT CAL	
					S91R2U098	NRI	
					S91R2C075	UT CAL	
					S91R2U099	NRI	
B9.11	A-16/04	2B31-1RCM-28AS-5	PT-H-600/2	128-H	S91R2P017	NRI	EXAMINED FROM PIPE SIDE ONLY DUE TO TEE CONFIGURATION.
B-J		TEE TO PIPE	UT-H-400/10		S91R2C041	UT CAL	
NUREG-0313A					S91R2U059	NRI	
					S91R2C044	UT CAL	
					S91R2U062	NRI	
B9.12	A-16/04	2B31-1RCM-28AS-5LD	PT-H-600/2	128-H	S91R2P018	NRI	
B-J		LONGITUDINAL SEAM	UT-H-400/10		S91R2C042	UT CAL	
NUREG-0313A		WELD EXTENDING DOWNSTREAM			S91R2U060	NRI	
B9.12	A-16/04	2B31-1RCM-28AS-5LU	PT-H-600/2	129-H	S91R2P019	NRI	
B-J		LONGITUDINAL SEAM	UT-H-400/10		S91R2C043	UT CAL	
NUREG-0313A		WELD EXTENDING UPSTREAM			S91R2U061	NRI	
B10.10	A-16/04	2B31-1RCM-28AS-5HL-1 THRU 4	PT-H-600/2	N/A	S91R2P020	NRI	
B-K-1		RANGER LUGS					
NUREG-0313							



E.I. HATCH UNIT 2 SPRING 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 COOLANT SYSTEM							
B5.10	A-18/04	2831-1RCM-288S-1	PT-H-600/2	84-H	S91H2P005	NRI	
B-F		NOZZLE 2N1B TO S-E	UT-H-409/7	29-H	S91H2C078	UT CAL	
NUREG-0313C			UT-H-810/0		S91H2U100	NRI	
					S91H2C077	UT CAL	
					S91H2U101	NRI	
					S91H2C076	UT CAL	
					S91H2U102	NRI	
B9.11	A-18/04	2831-1RCM-288S-3	PT-H-600/2	128-H	S91H2P024	NRI	
B-J		ELBOW TO PIPE	UT-H-400/10		S91H2C196	UT CAL	
NUREG-0313A					S91H2U258	NRI	
B9.12	A-18/04	2831-1RCM-288S-3LU-0	PT-H-600/2	128-H	S91H2P062	NRI	
B-J		LONGITUDINAL SEAM	UT-H-400/10		S91H2C197	UT CAL	
NUREG-0313A		WELD EXTENDING DOWNSTREAM			S91H2U261	NRI	
B9.12	A-18/04	2831-1RCM-288S-3LU-0	PT-H-600/2	128-H	S91H2P023	NRI	
B-J		LONGITUDINAL WELD	UT-H-400/10		S91H2C199	UT CAL	
NUREG-0313A		UPSTREAM ON OUTSIDE OF ELBOW			S91H2U259	NRI	
B9.12	A-12/04	2831-1RCM-288S-3LU-1	PT-H-600/2	128-H	S91H2P027	NRI	
B-J		LONGITUDINAL WELD	UT-H-400/10		S91H2C198	UT CAL	
NUREG 0313A		UPSTREAM ON INSIDE OF ELBOW			S91H2U260	NRI	

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

ASME	EXAM	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
REACTOR COOLANT SYSTEM							
B9.11 B-J NUREG-0313A	A-18/04	2B31-1RCH-288S-9 ELBOW TO PUMP	PT-H-600/2 UT-H-400/10	128-H	S91H2P056 S91H2C179 S91H2C237 S91H2C180 S91H2C238	NRI UT CAL NRI UT CAL NRI	NO SCAN ON DOWN SIDE DUE TO PUMP CONFIGURATION
B12.20 B-L-2 ASME	A-4/02	ZRC-A PUMP PUMP CASING	VT-H-730/6	N/A	S91H2C349	SAT	
B6.200 B-G-1 ASME	-	ZRC-A PUMP-FLANGE SURFACE AND THREADS IN FLANGE	VT-H-710/2	N/A	S91H2C03A	JNSAT THREAD DAMAGE	SEE INF # 191H2035 ACCEPTABLE AS IS.
B6.200 B-G-1 ASME	-	ZRC-A PUMP NUTS		N/A	N/A	SAT	PERFORMED BY GPC QC. 45QC-INS-010-05
B6.180 B-G-1 ASME	-	ZRC-A PUMP BOLT-1 THRU 16 PUMP BOLTING	UT-H-420/4	149-H	S91H2C002 S91H2C007	UT CAL NRI	
B10.20 B-K-1 ASME	A-4/02	ZRC-A PUMP LUG-1 RESTRAINT LUG	PT-H-600/2	N/A	S91H2P057	NRI	
B10.20 B-K-1 ASME	A-4/02	ZRC-A PUMP LUG-1B2 RESTRAINT LUG	PT-H-600/2	N/A	S91H2P058	NRI	

E.L. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	QUAL BLOCK	EXAM/QUAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR COOLANT SYSTEM</u>							
B10.20 B-K-1 ASME	A-4/02	26C-A PUMP LUG-2 RESTRAINT LUG	PT-R-600/2	N/A	S91R2P044	NRI	
B10.20 B-K-1 ASME	A-4/02	26C-A PUMP LUG-2B2 RESTRAINT LUG	PT-R-600/2	N/A	S91R2P075	NRI	
B10.20 B-K-1 ASME	A-4/02	26C-A PUMP LUG-2B2 RESTRAINT LUG	PT-R-600/2	N/A	S91R2P075	NRI	
B12.20 B-L-2 ASME	A-4/02	26C-B PUMP PUMP CASING RESTRAINT LUG	VT-R-730/6	N/A	S91R2V359	SAT	
B6.200 B-G-1 ASME	-	26C-B PUMP FLANGE SURFACE AND THREADS IN FLANGE	VT-R-710/2	N/A	S91R2V359	SAT	
B6.200 B-G-1 ASME	-	26C-B PUMP NUTS		N/A	N/A	SAT	PERFORMED BY GPC QC 450C-INS-010-05
B6.180 B-G-1 ASME	-	26C-B PUMP BOLT-1 THRU 15 PUMP BOLTING	UT-R-420/4	149-R	S91R2U003 S91R2U008	UT CAL NRI	

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

ASME SECTION XI	E / AM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR COOLANT SYSTEM</u>							
B10.20 B-K-1 ASME	A-4/0*	ZRC-B PUMP LUG-2 RESTRAINT LUG	PT-H-600/2	N/A	S91H2P076	NRI	
B10.20 B-K-1 ASME	-/02	ZRC-B PUMP LUG-ZB2 RESTRAINT LUG	PT-H-600/2	N/A	S91H2P074	NRI	
<u>CONTROL ROD DRIVE SYSTEM</u>							
B5.10 B-F NUREG-03130	A-1/04	2C11-1CRD-3-R-1 2ND NOZZLE TO CAP	UT-H-400/7	97-H 120-H	S91H2C181 S91H2U239 S91H2C182 S91H2U240 S91H2C183 S91H2U241	UT CAL NRI UT CAL NRI UT CAL NRI	
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
B9.11 B-J ASME	A-20/03	ZE11-1RHR-4-HS-2 PIPE TO ELBOW	MT-H-500/4 UT-H-400/10	122-H	S91H2M097 S91H2C170 S91H2U226 S91H2U228	NRI UT CAL RI N/A	THICKNESS
B9.11 B-J ASME	A-20/03	ZE11-1RHR-9B-HS-1 FLANGE TO NOZZLE	MT-H-500/4	N/A	S91H2M081	NRI	
B9.11 B-J NUREG-0313A	A-21/05	ZE11-1RHR-20RS-2 PIPE TO ELBOW	PT-H-600/2 UT-H-400/10	130-H	S91H2P050 S91H2C127 S91H2U169	NRI UT CAL NRI	

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

ASME	EXAM	FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>								
B9.11 B-J ASME	A-22/05	ZE11-1RHR-24A-R-2	PIPE TO ELBOW	MT-H-500/4 UT-H-400/10	12-H	S91R2M079 S91R2C089 S91R2U115	NRI UT CAL NRI	
B9.11 B-J ASME	A-22/05	ZE11-1RHR-24A-R-3	ELBOW TO PIPE	MT-H-500/4 UT-H-400/10	12-H	S91R2M080 S91R2C239 S91R2U321 S91R2U323	NRI UT CAL NRI N/A THICKNESS	
B9.11 B-J ASME	A-22/05	ZE11-1RHR-24A-R-6A	PIPE TO RED	MT-H-500/4 UT-H-400/10	12-H	S91R2M121 S91R2C246 S91R2U335	NRI UT CAL NRI	LIMITED EXAM DUE TO BRANCH CONNECTION AND GAMMA PLUG INTERFERENCE.
B9.11 B-J NUREG-0313A	A-22/05	ZE11-1RHR-24A-13	ELBOW TO TEE	PT-H-600/2 UT-H-400/10	131-H	S91R2P043 S91R2C119 S91R2U154 S91R2C120 S91R2U155	NRI UT CAL NRI UT CAL NRI	EXAMINED FROM ELBOW SIDE ONLY DUE TO TEE CONFIGURATION.
B10.10 B-K-1 ASME	A-23/05	ZE11-1RHR-24B-R-7PL-1 THRU 1 DEVICE ZE11-RHR-R356		MT-H-500/4	N/A	S91R2M088	NRI	
B9.11 B-J NUREG-0313A	A-23/05	ZE11-1RHR-24B-11	ELBOW TO PIPE	PT-H-600/2 UT-H-400/10	131-H	S91R2P042 S91R2C153 S91R2U207	NRI UT CAL NRI	

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

ASME	EXAM	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
SECTION XI	FIGURE NO.						
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
B9.12 B-J NUREG-0313A	A-23/05	2E11-1RHRM-24B-11LU-D LONGITUDINAL SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/2 UT-H-400/10	131-H	S91H2P041 S91H2C154 S91H2U208	NRI  UT CAL  NRI	
B9.12 B-J NUREG-0313A	A-23/05	2E11-1RHRM-24B-11LU-D LONGITUDINAL WELD UPSTREAM ON OUTSIDE OF ELBOW	PT-H-600/2 UT-H-400/10	131-H	S91H2P040 S91H2C155 S91H2U210	NRI  UT CAL  NRI	
B9.12 B-J NUREG-0313A	A-23/05	2E11-1RHRM-24B-11LU-I LONGITUDINAL WELD UPSTREAM ON INSIDE OF ELBOW	PT-H-600/2 UT-H-400/10	131-H	S91H2P039 S91H2P053 S91H2C156 S91H2U209	NRI N/A UT CAL NRI	IND. EVAL.
<u>CORE SPRAY SYSTEM</u>							
B9.11 B-J ASME	A-24/05	2E21-1CS-10A-1 VALVE TO PIPE	MT-H-500/4 UT-H-400/10	137-H	S91H2M070 S91H2C084 S91H2U109 S91H2C085 S91H2U110 S91H2U111	NRI  UT CAL NRI R1 N/A	EXAMINED FROM PIPE SIDE ONLY DUE TO VALVE CONFIGURATION.
B9.11 B-J ASME	A-24/05	2E21-1CS-10A-10 ELBOW TO PIPE	MT-H-500/4 UT-H-400/10	54-H	S91H2M058 S91H2C075 S91H2U056 S91H2C081 S91H2U107	NRI  UT CAL NRI UT CAL NRI	EXAMINED FROM ELBOW SIDE ONLY DUE TO HANGER INTERFERENCE.



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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
CORE SPRAY SYSTEM							
B1.530 B-F NUREG-0330	A-24/05	2E21-1CS-10A-20 PIPE TO SAFE-END	UT-H-400/10 UT-H-800/1	137-H	S91H2C165 S91H2U219	UT CAL RI	
B5.10 B-J NUREG-03130	A-24/05	2E21-1CS-10A-21 SAFE-END TO NOZZLE	UT-H-409/7 UT-H-810/0	7B-H	S91H2C172 S91H2U230 S91H2C173 S91H2U231	UT CAL RI UT CAL RI	
B9.11 B-J ASME	A-25/05	2E21-1CS-10B-2 PIPE TO VALVE	MT-H-500/4 UT-H-400/10	137-H	S91H2M128 S91H2C247 S91H2U343 S91H2C248 S91H2U344 S91H2U345	RI UT CAL RI UT CAL RI THICKNESS	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.
B9.11 B-J ASME	A-25/05	2E21-1CS-10B-14 PIPE TO ELBOW	MT-H-500/4 UT-H-400/10	137-H	S91H2M063 S91H2C209 S91H2U282	RI UT CAL RI	
B5.130 B-F NUREG-0330	A-25/05	2E21-1CS-10B-19 PIPE TO SAFE-END	MT-H-500/4 UT-H-800/1	137-H	S91H2M086 S91H2C164 S91H2U218 S91H2U181	RI UT CAL RI N/A	
B5.10 B-F NUREG-03130	A-25/05	2E21-1CS-10B-20 SAFE-END TO NOZZLE	PT-H-600/2 UT-H-409/7 UT-H-810/0	7B-H	S91H2P028 S91H2C162 S91H2U216 S91H2C163 S91H2U217	RI UT CAL RI UT CAL RI	

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

ACME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>HIGH PRESSURE COOLANT INJECTION SYSTEM</u>							
B9.11 B-J ASME	A-26/06	2E41-1HPC-10-D-9 PIPE TO ELBOW TO ELBOW	MT-H-500/4 UT-H-400/10	54-H	S91H2M056 S91H2C082 S91H2U106 S91H2C074 S91H2U095 S91H2U097	NRI RI RI RI N/A	EXAMINED FROM ELBOW SIDE ONLY DUE TO CONFIGURATION.  UT CAL GEOMETRY UT CAL GEOMETRY THICKNESS
B9.11 B-J ASME	A-26/06	2E41-1HPC-10-D-9 PIPE TO ELBOW	MT-H-500/4 UT-H-400/10	54-H	S91H2M057 S91H2C083 S91H2U105 S91H2U108	NRI RI N/A	EXAMINED FROM ELBOW SIDE ONLY DUE TO HANGER INTERFERENCE.  UT CAL GEOMETRY THICKNESS
B9.11 B-J ASME	A-27/07	2E51-1PCIC-4-D-6 PIPE TO ELBOW	MT-H-500/4 UT-H-400/10	122-H	S91H2M118 S91H2C241 S91H2U070 S91H2U336	NRI NRI N/A	LIMITATION DUE TO BRANCH CONNECTION OBSTRUCTION  UT CAL THICKNESS
B9.11 B-J ASME	A-27/07	2E51-1PCIC-4-D-18 ELBOW TO PIPE	MT-H-500/4 UT-H-400/10	122-H	S91H2M098 S91H2C171 S91H2U327 S91H2U229	NRI RI N/A	UT CAL GEOMETRY THICKNESS
B9.11 B-J NUREG-0313A	A-28/05	2G31-1RWQUM-6-D-8 PIPE TO 45-DEGREE ELBOW	PT-H-600/2 UT-H-400/10	133-H	S91H2P045 S91H2C114 S91H2U146 S91H2U147	NI RI N/A	UT CAL GEOMETRY THICKNESS
<u>REACTOR CORE ISOLATION COOLING SYSTEM</u>							
<u>REACTOR WATER CLEAN-UP SYSTEM</u>							

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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR WATER CLEAN-UP SYSTEM</u>							
B9.12 B-J NUREG-0313A	A-28/05	2G31-1RWCM-6-D-8LD-0 LONGITUDINAL WELD DOWNSTREAM ON OUTSIDE OF ELBOW	PT-H-600/2 UT-H-400/10	133-H	S91H2P049 S91H2C115 S91H2U148	N1 UT CAL NRI	
B9.12 B-J NUREG-0313A	A-28/05	2G31-1RWCM-6-D-8LD-1 LONGITUDINAL WELD DOWNSTREAM ON INSIDE OF ELBOW	PT-H-600/2 UT-H-400/10	133-H	S91H2P048 S91H2C116 S91H2U149	N1 UT CAL NRI	
B9.12 B-J NUREG-0313A	A-28/05	2G31-1RWCM-6-D-8LU LONGITUDINAL SEAM WELD EXTENDING UPSTREAM	PT-H-600/2 UT-H-400/10	133-H	S91H2P047 S91H2C113 S91H2U145	N1 UT CAL NRI	
B9.11 B-J NUREG-0313A	A-28/05	2G31-1RWCM-6-D-12 PIPE TO ELBOW	PT-H-600/2 UT-H-400/10	133-H	S91H2P046 S91H2C126 S91H2U168	N1 UT CAL RI	GEOMETRY
<u>VALVE BOLTING</u>							
B7.70 B-G-2 ASME	A-12/05	2B21-F010A VALVE BOLTING	VT-H-710/2	N/A	S91H2V459	SAT	
B7.70 B-G-2 ASME	A-13/05	2B21-F010B VALVE BOLTING	VT-H-710/2	N/A	S91H2V346	SAT	

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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>VALVE BOLTING</u>							
B7.70 B-G-2 ASME	A-12/05	2B21-F011A VALVE BOLTING	VT-H-710/2	N/A	S91H2V344	SAT	
B7.70 B-G-2 ASME	A-13/05	2B21-F011B VALVE BOLTING	VT-H-710/2	N/A	S91H2V345	SAT	
B7.70 B-G-2 ASME	A-6/05	2B21-F022A VALVE BOLTING	VT-H-710/2	N/A	S91H2V313	SAT	
B7.70 B-G-2 ASME	A-7/06	2B21-F022B VALVE BOLTING	VT-H-710/2	N/A	S91H2V460	SAT	
B7.70 B-G-2 ASME	A-8/07	2B21-F022C VALVE BOLTING	VT-H-710/2	N/A	S91H2V314	SAT	
B7.70 B-G-2 ASME	A-9/06	2B21-F022D VALVE BOLTING	VT-H-710/2	N/A	S91H2V315	SAT	
B7.70 B-G-2 ASME	A-16/04	2B31-F023A VALVE BOLTING	VT-H-710/2	N/A	S91H2V316	SAT	

E.I. WATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>VALVE BOLTING</u>							
B7.70 B-G-2 ASME	A-18/04	2B31-F023B VALVE BOLTING	VT-H-710/2	N/A	S91H2V317	SAT	
B7.70 B-G-2 ASME	A-17/03	2B31-F031A VALVE BOLTING	VT-N-710/2	N/A	S91H2V318	SAT	
B7.70 B-G-2 ASME	A-19/03	2B31-F031B VALVE BOLTING	VT-N-710/2	N/A	S91H2V319	SAT	
B7.70 B-G-2 ASME	A-20/03	2E11-F022 VALVE BOLTING	VT-H-710/2	N/A	S91H2V420	SAT	
B7.70 B-G-2 ASME	A-20/03	2E11-F023 VALVE BOLTING	VT-H-710/2	N/A	S91H2V421	SAT	
B7.70 B-G-2 ASME	A-22/05	2E11-F060A VALVE BOLTING	VT-H-710/2	N/A	S91H2V360	SAT	
B7.70 B-G-2 ASME	A-23/05	2E11-F060B VALVE BOLTING	VT-H-710/2	N/A	S91H2V361	SAT	THREADS NOT FULLY ENGAGED.
							USE AS IS PER GPC ENGINEERING

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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>VALVE BOLTING</u>							
B7.70 B-G-2 ASME	A-21/05	2E11-F067 VALVE BOLTING	VT-H-710/2	N/A	S91H2V362	SAT THREADS NOT FULLY ENGAGED.	USE AS IS PER GPC ENGINEERING.
B7.70 B-G-2 ASME	A-26/06	2E41-F002 VALVE BOLTING	VT-H-710/2	N/A	S91H2V320	SAT	
B7.70 B-G-2 ASME	A-26/06	2E41-F003 VALVE BOLTING	VT-H-710/2	N/A	S91H2V321	SAT	



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. Nineteen (19) 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 2-90-5105.

10-15	42-47
18-19	22-31
10-27	34-39
38-31	34-15
18-39	22-43
22-19	38-35
14-27	22-27
18-35	30-19
26-39	26-15
50-35	

VISUAL EXAMINATION OF CLASS 1  
VALVE INTERNALS

This section provides a summation of the ASME required visual examinations of Class 1 valve internal surfaces. These examinations were performed on valves that were disassembled for maintenance during the 1991 Refueling Outage. The examinations were performed by Georgia Power Company Quality Control Inspection personnel in accordance with GPC Procedure 45QC-INS-012-0S. Copies of the inspection reports are available at the plant site. The valves inspected were from the following systems: Main Steam (2B21), and Residual Heat Removal (2E11). Listed below are the valves examined and a brief summary of the results.

<u>VALVE NUMBER</u>	<u>MWO NUMBER</u>	<u>REMARKS</u>
2B21-F010A	2-91-1383	Disassembled due to LLRT failure
2B21-F013D	2-90-5125	This SRV body was removed and shipped to Wyle Labs for inspection
2B21-F013H	2-89-1961	This SRV was removed and shipped to Wyle Labs for inspection
2B21-F022B	2-91-1302	Disassembled due to LLRT failure
2B21-F028B	2-91-1360	Disassembled due to LLRT failure
2E11-F050B	2-91-711	Acceptable

SUMMARY  
OF  
CLASS 2 EXAMINATIONS

E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/UT RESULTS	RESULTS	REMARKS
<u>CONTROL ROD DRIVE SYSTEM</u>							
-- -- NUREG-0610	B-83/04	2C11-2CRD-3-2FW-1611 PIPE TO REDUCER	UT-H-400/10	4-H	S91H2C136 S91H2U186 S91H2C137 S91H2U187 S91H2U188	UT CAL NRI UT CAL NRI N/A	EXAMINED FROM PIPE SIDE ONLY DUE TO REDUCER CONFIGURATION. THICKNESS
-- -- NUREG-0619	B-83/04	2C11-2CRD-4-2FW-1611 REDUCER TO TEE	UT-H-400/10	142-H	S91H2C135 S91H2U184 S91H2C134 S91H2U183 S91H2U185	UT CAL NRI UT CAL NRI N/A	LIMITED EXAM DUE TO CONFIGURATION THICKNESS
-- -- NUREG-0803	B-84/04	2C11-2CRD-8S-SDV-4 PIPE TO ELBOW	MT-H-500/4	N/A	S91H2M126	NRI	
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
-- -- AUGMENTED	B-27/03	2E11-2RHR-3A-HXD-1 REDUCER TO VALVE	MT-H-500/4	N/A	S91H2M003	NRI	
-- -- AUGMENTED	B-100/02	2E11-2RHR-3A-TL-C-3 PIPE TO ELBOW	MT-H-500/4	N/A	S91H2M013	NRI	
-- -- AUGMENTED	B-27/03	2E11-2RHR-4A-HXD-5 PIPE TO ELBOW	MT-H-500/4	N/A	S91H2M004	NRI	

E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
--	B-31/04	2E11-2RHR-4B-HXO-2 ELBOW TO PIPE	MT-H-500/4	N/A	S91H2M018	NRI	
AUGMENTED							
--	B-101/02	2E11-2RHR-4B-TL-5 PIPE TO ELBOW	MT-H-500/4	N/A	S91H2M017	NRI	
AUGMENTED							
--	B-97/02	2E11-2RHR-4-HS-7 PIPE TO 45 DEGREE ELBOW	MT-H-500/4	N/A	S91H2M114	NRI	
AUGMENTED							
<u>HIGH PRESSURE COOLANT INJECTION SYSTEM</u>							
CS-21 C-F ASME	B-16/04	2E11-2RHR-6A-SS-7 PIPE TO ELBOW	MT-H-500/4 UT-H-400/10	50-H	S91H2M007 S91H2C006 S91H2U013 S91H2C007 S91H2U014 S91H2U015	NRI NRI NRI N/A	UT CAL UT CAL THICKNESS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
CS-11 C-F ASME	B-19/05	2E11-2RHR-6B-RV0-6 PIPE TO 45-DEGREE ELBOW	MT-H-500/4	N/A	S91H2M008	NRI	
CS-11 C-F ASME	B-22/04	2E11-2RHR-8-FPD-6 PIPE TO ELBOW	MT-H-500/4	N/A	S91H2M115	NRI	

E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
C5.11 C-F ASME	B-23/04	2E11-2RHR-8-FPS-20 PIPE TO ELBOW	MT-H-500/4	N/A	S91H2M122	NRI	
C5.11 C-F ASME	B-23/04	2E11-2RHR-8-FPS-26 ELBOW TO PIPE	MT-H-500/4	N/A	S91H2M123	NRI	
C3.20 C-C ASME	B-26/04	2E11-2RHR-16A-HX1-2PL-1 THRU 4 DEVICE 2E11-RHR-H175	MT-H-500/4	N/A	S91H2M001	NRI	
C3.20 C-C ASME	B-26/04	2E11-2RHR-16A-HX1-2PL-5 THRU 8 DEVICE 2E11-RHR-R251	MT-H-500/4	N/A	S91H2M035	NRI	
C5.11 C-F ASME	B-26/04	2E11-2RHR-16A-SS-3 REDUCER TO ELBOW	MT-H-500/4	N/A	S91H2M006	NRI	
C5.11 C-F ASME	B-17/06	2E11-2RHR-16A-SH-8 PIPE TO 45-DEGREE ELBOW	MT-H-500/4	N/A	S91H2M092	NRI	
C5.11 C-F ASME	B-27/03	2E11-2RHR-16A-HX0-9 ELBOW TO PIPE	MT-H-500/4	N/A	S91H2M002	NRI	

E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
C5.11 C-F ASME	B-18/06	2E11-2RHR-16B-DS-1 TEE TO PIPE	MT-H-500/4	N/A	S91H2M093	NR1	
-- -- AUGMENTED	B-33/04	2E11-2RHR-16B-PD-D-18C/2E11- 2RHR-3B-TL-D PIPE TO BC	MT-H-500/4	N/A	S91H2M048	NI	
C3.20 C-C ASME	B-30/04	2E11-2RHR-16B-HXI-2PL-1 THRU 4 DEVICE 2E11-RHR-H183	MT-H-500/4	N/A	S91H2M009	NR1	
C3.20 C-C ASME	B-30/04	2E11-2RHR-16B-HXI-2PL-5 THRU 8 DEVICE 2E11-RHR-R269	MT-H-500/4	N/A	S91H2M046	NR1	
C5.11 C-F ASME	B-32/04	2E11-2RHR-16B-PD-B-3 45-DEGREE ELBOW TO ELBOW	MT-H-500/4	N/A	S91H2M047	NI	
C5.11 C-F ASME	B-30/04	2E11-2RHR-16B-HXI-4 ELBOW TO PIPE	MT-H-500/4	N/A	S91H2M010	NR1	
C5.31 C-F ASME	B-18/06	2E11-2RHR-16B-DS-BBC/2E11 -2RHR-B-FPD PIPE TO BRANCH CONNECTION	MT-H-500/4	N/A	S91H2M117	NR1	



E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
C5.11 C-F ASME	B-27/03	2E11-2RHR-20A-HX0-2 ELBOW TO REDUCER	MT-H-500/4	N/A	S91H2M082	NR1	
C3.20 C-C ASME	B-28/03	2E11-2RHR-20A-PD-A-1PL-1 THRU 4 DEVICE 2E11-RHR-H182	MT-H-500/4	N/A	S91H2M050	N1	
C5.11 C-F ASME	B-29/04	2E11-2RHR-20A-PD-C-7 ELBOW TO VALVE	MT-H-500/4	N/A	S91H2M012	NR1	
C5.11 C-F ASME	B-36/03	2E11-2RHR-20B-D-17 PIPE TO ELBOW	MT-H-500/4	N/A	S91H2M020	NR1	
C3.20 C-C ASME	B-37/04	2E11-2RHR-20C-D-10PL-1 THRU 4 DEVICE 2E11-RHR-H168	MT-H-500/4	N/A	S91H2M011	NR1	
C5.11 C-F ASME	B-37/04	2E11-2RHR-20C-D-11 PIPE TO BRANCH CONNECTION	MT-H-500/4	N/A	S91H2M014	NR1	
C3.20 C-C ASME	B-39/04	2E11-2RHR-20-RS-5PL-1 THRU 8 DEVICE 2E11-RHR-R315	MT-H-500/4	N/A	S91H2M043	N1	

E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
C5.21 C-F ASME	B-40/03	2E11-2RHR-24A-8P-5 ELBOW TO 45-DEGREE ELBOW	MT-H-500/4 UT-H-400/9	139-H	S91H2M005 S91H2C001 S91H2U005 S91H2U006	NR1  R1 N/A	UT CAL GEOMETRY WELD PROFILE
C3.20 C-C ASME	B-40/03	2E11-2RHR-24A-8P-7PS DEVICE 2E11-RHR-A177	MT-H-500/4	N/A	S91H2M041	NI	
C5.21 C-F ASME	B-34/04	2E11-2RHR-24A-R-1 TEE TO ELBOW	MT-H-500/4 UT-H-400/10	139-H	S91H2M051 S91H2C036 S91H2U052 S91H2C037 S91H2U053 S91H2C039 S91H2U055 S91H2U057	NI NR1 R1 NR1 N/A	UT CAL UT CAL GEOMETRY UT CAL THICKNESS
C5.21 C-F ASME	B-42/05	2E11-2RHR-24A-TS-A-2 PIPE TO 45-DEGREE ELBOW	PT-H-600/2 UT-H-400/10	139-H	S91H2P003 S91H2C038 S91H2U054 S91H2C040 S91H2U056 S91H2U058	NR1 NR1 NR1 N/A	UT CAL UT CAL THICKNESS
C3.20 C-C ASME	B-42/05	2E11-2RHR-24A-TS-A-4PS DEVICE 2E11-RHR-R715	MT-H-500/4	N/A	S91H2M033	NI	NO UP SCAN DUE TO ACCESSIBILITY

E.I. MATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
C5.21 C-F ASME	B-46/02	2E11-2RHR-24B-BP-2 PIPE TO VALVE	MT-H-500/4 UT-H-600/10	139-H	S91H2M019 S91H2C004 S91H2U009 S91H2U010 S91H2C012 S91H2U024 S91H2C013 S91H2U025	NR1  NI N/A  RI RI RI	EXAMINED FROM PIPE SIDE ONLY DUE TO VALVE CONFIGURATION.
C3.20 C-C ASME	B-46/02	2E11-2RHR-24B-BP-7PS DEVICE 2E11-RHR-A185	MT-H-500/4	N/A	S91H2M044	NI	
C3.20 C-C ASME	B-48/06	2E11-2RHR-24B-TS-B-4PS DEVICE 2E11-RHR-H714	MT-H-500/4	N/A	S91H2M031	NI	
C3.20 C-C ASME	B-50/05	2E11-2RHR-24B-TS-D-15PS SEAL WELD	PT-H-600/2	N/A	S91H2P051	NR1	
- - AUGMENTED	B-56/06	2E21-2CS-3A-5 ELBOW TO PIPE	MT-H-500/4	N/A	S91H2M125	NR1	
- - AUGMENTED	B-98/02	2E21-2CS-3-MFL-5 ELBOW TO PIPE	MT-H-500/4	N/A	S91H2M116	NR1	

CORE SPRAY SYSTEM

E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>CORE SPRAY SYSTEM</u>							
-	B-56/06	2E21-2CS-12A-1BC-1/ PIPE TO BC	MT-H-500/4	N/A	S91H2M015	NR1	
-							
AUGMENTED							
CS-11 C-F ASME	B-58/04	2E21-2CS-12A-37 PIPE TO ELBOW	MT-H-500/4	N/A	S91H2M022	NI	
CS-11 C-F ASME	B-608/03	2E21-2CS-14B-CTS-4 PIPE TO 45-DEGREE ELBOW	MT-H-500/4	N/A	S91H2M021	NR1	
CS-20 C-C ASME	B-62/04	2E21-2CS-20A-TS-18PS DEVICE 2E21-CS-W707	MT-H-500/4	N/A	S91H2M016	NR1	
-							
-	B-102/00	2E41-2HPC1-2-CWR-4 PIPE TO 45 DEGREE ELBOW	MT-H-500/4	N/A	S91H2M040	NI	
AUGMENTED							
-							
-	B-103/01	2E41-2HPC1-2-CWS-6 ELBOW TO PIPE	MT-H-500/4	N/A	S91H2M026	NR1	
AUGMENTED							
CS-21 C-F ASME	B-16/04	2E41-2HPC1-8A-SS-6 PIPE TO ELBOW	MT-H-500/4 UT-H-400/10	52-H	S91H2M042 S91H2CC005 S91H2U011 S91H2U012	NI RI N/A	UT CAL GEOMETRY THICKNESS

HIGH PRESSURE COOLANT INJECTION SYSTEM

E.I. HATCH UNIT 2 SPRING 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							
C5.21 C-F ASME	B-67/03	2E41-2HPCI-10-D-18 ELBOW TO PIPE	MT-H-500/4 UT-H-400/10	54-H	S91H2M107 S91H2C204 S91H2U270 S91H2U271	NR1  RI N/A	 UT CAL GEOMETRY THICKNESS
C5.21 C-F ASME	B-68/04	2E41-2HPCI-10-D-26 ELBOW TO PIPE	MT-H-500/4 UT-H-400/10	54-H	S91H2M045 S91H2C009 S91H2U018 S91H2U019	NR1  RI N/A	 UT CAL GEOMETRY THICKNESS
C5.21 C-F ASME	B-68/04	2E41-2HPCI-10-D-32 TEE TO PIPE	MT-H-500/4 UT-H-400/10	54-H	S91H2M110 S91H2C218 S91H2U296 S91H2U279	NR1  RI N/A	 UT CAL GEOMETRY THICKNESS
C5.11 C-F ASME	B-69/04	2E41-2HPCI-10-TD-1 BRANCH CONNECTION TO PIPE	MT-H-500/4	N/A	S91H2M023	NR1	
C3.20 C-C ASME	B-65/04	2E41-2HPCI-14-R-9PL-1 & 2 DEVICE 2E41-HPCI-R51	MT-H-500/4	N	S91H2M024	NR1	
C3.20 C-C ASME	B-66/05	2E41-2HPCI-14-R-19PS-1 DEVICE 2E41-HPCI-HR710	MT-H-500/4	N/A	S91H2M027 S91H2M064	RI NI	INDICATION REMOVED BY FLAPPING.
C3.20 C-C ASME	B-66/05	2E41-2HPCI-14-R-19PS-2 DEVICE 2E41-HPCI-HR710	MT-H-500/4	N/A	S91H2M028	NI	

E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>HIGH PRESSURE COOLANT INJECTION SYSTEM</u>							
C5.21 C-F ASME	B-66/05	2E41-2HPCI-14-R-20 PIPE TO ELBOW	MT-H-500/4 UT-H-400/10	116-H	S91H2M029 S91H2C008 S91H2U016 S91H2U017	NR1  RI N/A	 UT CAL GEOMETRY THICKNESS
<u>HIGH PRESSURE COOLANT INJECTION</u>							
B9.11 B-J ASME	A-38A/01	2E41-2HPCI-14-R-46 PIPE TO TEE	MT-H-500/4 UT-H-400/10	43-H	S91H2M112 S91H2C210 S91H2U283 S91H2C211 S91H2U284 S91H2U285	NR1  NR1  RI N/A	 UT CAL  UT CAL GEOMETRY THICKNESS
<u>HIGH PRESSURE COOLANT INJECTION SYSTEM</u>							
- - AUGMENTED	B-73A/02	2E41-2HPCI-16-CS-2BC/2E41- 2HPCI-6-CS PIPE TO BRANCH CONNECTION	PT-H-600/2	N/A	S91H2P010 S91H2P028	RI  IND. EVAL.	CODE ALLOWABLE LINEAR INDICATION.
C3.20 C-C ASME	B-73A/02	2E41-2HPCI-16-CS-2PL-1 THRU 8 DEVICE 2E41-HPCI-H5	PT-H-600/2	N/A	S91H2P009	NR1	
- - AUGMENTED	B-73A/02	2E41-2HPCI-16-CS-7 VALVE TO TEE	MT-H-500/4	N/A	S91H2M036	NR1	
C5.11 C-F ASME	B-69/04	2E41-2HPCI-20-TD-2 ELBOW TO PIPE	MT-H-500/4	N/A	S91H2M025	NR1	



E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>HIGH PRESSURE COOLANT INJECTION SYSTEM</u>							
C5.11 C-F ASME	B-69/04	2E51-2HPCI-20-TD-16 PIPE TO ELBOW	MT-H-500/4	N/A	S91H2M038	NI	
<u>REACTOR CORE ISOLATION COOLING SYSTEM</u>							
- - AUGMENTED	B-95/02	2E51-2RCIC-4-SS-3 ELBOW TO PIPE	MT-H-500/4	N/A	S91H2M096	NR1	
- - AUGMENTED	B-96/02	2E51-2RCIC-4-SS-15 ELBOW TO PIPE	MT-H-500/4	N/A	S91H2M124	NR1	
- - AUGMENTED	B-90/02	2E51-2RCIC-6-CST-7 PIPE TO ELBOW	PT-H-600/2	N/A	S91H2P055	NR1	
- - AUGMENTED	B-89/02	2E51-2RCIC-6-CST-20 TEE TO FLANGE	MT-H-500/4	N/A	S91H2M113	NR1	
- - AUGMENTED	B-86/03	2E51-2RCIC-6-TS-3 PIPE TO ELBOW	MT-H-500/4	N/A	S91H2M108	NP	
C5.11 C-F ASME	B-82/06	2E51-2RCIC-10-TD-7 ELBOW TO PIPE	MT-H-500/4	N/A	S91H2M049	NI	



E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR CORE ISOLATION COOLING SYSTEM</u>							
C5.11 C-F ASME	B-82/06	2E51-2RCIC-10-TD-20 ELBOW TO PIPE	MT-H-500/4	N/A	S91H2M032	NI	
<u>REACTOR WATER CLEAN-UP SYSTEM</u>							
-- -- NUREG-0619	B-83/04	2G31-2RWCU-4-2FW-33 TEE TO PIPE	UT-H-400/10	142-H	S91H2C143 S91H2U196 S91H2C145 S91H2U198 S91H2U200	UT CAL NRI UT CAL NRI N/A THICKNESS	ONE SIDED EXAM DUE TO CONFIGURATION
-- -- NUREG-0619	B-83/04	2G31-2RWCU-4-2FW-3052 PIPE TO TEE	UT-H-400/10	142-H	S91H2C142 S91H2U195 S91H2C144 S91H2U197 S91H2U199	UT CAL NRI UT CAL NRI N/A THICKNESS	ONE SIDED EXAM DUE TO CONFIGURATION
<u>TORUS DRAIN AND PURIFICATION SYSTEM</u>							
C5.11 C-F ASME	B-76/04	2G51-2TDP-B-D-3 FLANGE TO ELBOW	MT-H-500/4	N/A	S91H2M030	NI	
<u>MAIN STEAM AUXILIARY SYSTEM</u>							
C5.21 C-F ASME	B-4/03	2N11-2MSA-8B-2 PIPE TO CAP	MT-H-500/4 UT-H-400/10	52-H	S91H2M054 S91H2C011 S91H2U022 S91H2U023	NRI UT CAL NRI N/A THICKNESS	

E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>MAIN STEAM AUXILIARY SYSTEM</u>							
C5.21 C-F ASME	B-7/04	2N11-2MSA-16A-12 PIPE TO ELBOW	MT-H-500/4 UT-H-400/10	53-H	S91H2M053 S91H2C010 S91H2U021 S91H2U020	NR1  NR1 N/A	UT CAL  THICKNESS
C5.21 C-F ASME	B-7/04	2N11-2MSA-16A-20 45-DEGREE ELBOW TO PIPE	MT-H-500/4 UT-H-400/10	53-H	S91H2M100 S91H2C146 S91H2U206 S91H2C152 S91H2U204 S91H2U205	NR1  NR1  R1 N/A	UT CAL  UT CAL GEOMETRY THICKNESS
C3.20 C-C ASME	B-9/05	2N11-2MSA-24A-1PS-1 PIPE SUPPORT	MT-H-500/4	N/A	S91H2M103	NR1	
C3.20 C-C ASME	B-9/05	2N11-2MSA-24A-1PS-2 PIPE SUPPORT	MT-H-500/4	N/A	S91H2M105	NR1	
C5.21 C-F ASME	B-9/05	2N11-2MSA-24A-5 ELBOW TO PIPE	MT-H-500/4 UT-H-400/10	12-H	S91H2M099 S91H2C166 S91H2U220 S91H2C168 S91H2U224 S91H2U221	NR1  NR1  NR1 N/A	UT CAL  UT CAL  THICKNESS

E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>MAIN STEAM AUXILIARY SYSTEM</u>							
C5.21 C-F ASME	B-10/06	2N11-2MSA-24B-2 PIPE TO ELBOW	MT-H-500/4 UT-H-400/10	12-H	S91H2M095 S91H2C167 S91H2U222 S91H2C169 S91H2U225 S91H2U223	NR1  UT CAL NR1 UT CAL NR1 N/A	   THICKNESS
C3.20 C-C ASME	B-10/06	2N11-2MSA-24B-8PL-1 THRU 8 DEVICE 2N11-MS-R38	MT-H-500/4	N/A	S91H2M076	NR1	
C3.20 C-C ASME	B-11/05	2N11-2MSA-24C-14PL-1 THRU 8 DEVICE 2N11-MS-A60	MT-H-500/4	N/A	S91H2M075	NR1	
C3.20 C-C ASME	B-12/05	2N11-2MSA-24D-1PS-1 PIPE SUPPORT	MT-H-500/4	N/A	S91H2M102	NR1	
C3.20 C-C ASME	B-12/05	2N11-2MSA-24D-1PS-2 PIPE SUPPORT	MT-H-500/4	N/A	S91H2M104	NR1	
C3.20 C-C ASME	B-12/05	2N11-2MSA-24D-8PL-1 THRU 8 DEVICE 2N11-MS-R51	MT-H-500/4	N/A	S91H2M101	NR1	

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

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>CONTAINMENT PURGE AND INERTING SYSTEM</u>							
C5.11 C-F ASME	B-77/04	2T48-2CPI-6-SVT-5 45 DEGREE ELBOW TO PIPE	MT-H-500/4	N/A	S91H2M034	NI	
C5.11 C-F ASME	B-81/04	2T48-2CPI-18-POT-6 PIPE TO VALVE	MT-H-500/4	N/A	S91H2M037	NI	
C5.11 C-F ASME	B-79/05	2T48-2CPI-20-PIT-8 PIPE TO ELBOW	MT-H-500/4	N/A	S91H2M052	NI	

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 2 Spring 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-006-2S, ISI Pressure Test of the Class 1 System.

### TEST RESULTS

Only minor leakage at mechanical joints was found during the VT-2 examination. 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

<u>TEST I.D.</u>	<u>PROCEDURE</u>	<u>MWO NUMBER</u>
2B21-LT-1	42IT-TET-006-2S	2-90-4945

### 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.

Two (2) Class 2 Functional Tests were performed per ASME Section XI paragraph IWA-5211(b), 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 were repaired.

## CLASS 2 SUMMARY

<u>TEST I.D.</u>	<u>PROCEDURE</u>	<u>MWO NUMBER</u>
2C11-HT-1 *	42IT-TET-003-OS	2-90-4624
2E11-HT-4	42IT-TET-003-OS	2-90-4623
2E21-FT-1	42IT-TET-004-OS	None Required
2E41-FT-1	42IT-TET-004-OS	None Required

\* ASME Code pressure not obtained due to component limitations.

## CLASS 3 PRESSURE TESTS

One (1) Class 3 hydrostatic pressure test was performed during the outage per ASME Section XI, paragraph IWA-5211(d), in accordance with GPC procedure 42IT-TET-003-OS, Hydrostatic Pressure Testing of Piping and Components.

Two (2) Class 3 Inservice Tests were performed during this outage per ASME Section XI, paragraph IWA-5211(c), which were performed in accordance with GPC procedure 42IT-TET-004-OS, Operating Pressure Testing of Piping and Components.

One (1) Class 3 Functional Test was performed during the outage per ASME Section XI, paragraph IWA-5211(b) which was performed in accordance with GPC procedure 42IT-TET-004-OS, Operating Pressure Testing of Piping and Components.

## TEST RESULTS

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

## CLASS 3 PRESSURE TEST SUMMARY

<u>TEST I.D.</u>	<u>PROCEDURE</u>	<u>MWO NUMBER</u>
2P11-HT-1	42IT-TET-003-OS	2-90-4622
2E11-IT-1	42IT-TET-004-OS	Not Required
2P41-IT-1	42IT-TET-004-OS	Not Required
2P41-FT-1	42IT-TET-004-OS	Not 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). The procedure and all examination data sheets are available for review at the plant site.

### Examinations

#### Class 1

Eighty-two (82) component supports from the B21, B31, E11, E21, E41 and E51 Systems were visually examined. Fourteen (14) unacceptable indications were detected.

#### Class 2

Two-hundred sixty-four (264) component supports from the C11, E11, E21, E41, E51, ,G51, N11, and T48 systems were visually examined. Sixty-four (64) of these Class 2 component supports were found unacceptable.

#### Class 3

One hundred forty-two (142) component supports from the B21, E11, G41, and P41 systems were visually examined. Thirty-nine (39) of these Class 3 component supports were found to be unacceptable.

After maintenance and/or engineering evaluation, all of the unacceptable component supports were determined to be acceptable. Where maintenance was involved, the component supports were re-examined to confirm acceptability.

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
1	2B21-MS-H2	A-6/05	SPRING	A	S91H2V541	N/A	N/A			
1	2B21-MS-H3	A-6/05	SPRING	U	S91H2V364	191H2038	2-91-1727	A	S91H2V602	UNACCEPTABLE SPRING SETTING.
1	2B21-MS-R47	A-6/05	MECH SNUBBER	A	S91H2V540	N/A	N/A			
1	2B21-MS-R48	A-6/05	MECH SNUBBER	A	S91H2V539	N/A	N/A			
1	2B21-MS-H5	A-7/06	SPRING	A	S91H2V538	N/A	N/A			
1	2B21-MS-H6	A-7/06	SPRING	A	S91H2V537	N/A	N/A			
1	2B21-TORSION&LATERAL	A-8/07	RESTRAINT	A	S91H2V211	191H2017	N/A			PAD OF SLIDE MATERIAL IS LOOSE. ACCEPTABLE AS IS PER GPC ENGINEERING.
1	2B21-MS-H7	A-8/07	SPRING	U	S91H2V196	191H2033	2-91-1532	A	S91H2V495	LOOSE NUTS
1	2B21-MS-H8	A-8/07	SPRING	A	S91H2V358	N/A	N/A			
1	2B21-MS-H9	A-8/07	SPRING	A	S91H2V357	N/A	N/A			
1	2B21-MS-R38	A-8/07	MECH SNUBBER	A	S91H2V194	N/A	N/A			
1	2B21-MS-R39	A-8/07	MECH SNUBBER	A	S91H2V356	N/A	N/A			
1	2B21-MS-R41	A-8/07	MECH SNUBBER	A	S91H2V494	N/A	N/A			
1	2B21-MS-R42	A-8/07	MECH SNUBBER	A	S91H2V355	N/A	N/A			
1	2B21-MS-R43	A-8/07	MECH SNUBBER	A	S91H2V354	N/A	N/A			
1	2B21-MS-R44	A-8/07	MECH SNUBBER	A	S91H2V353	191H2038	2-91-1726			LOOSE NUTS, SLIPPED BEARING. ACCEPTABLE AS IS PER GPC ENGINEERING.
1	2B21-MS-H11	A-9/06	SPRING	A	S91H2V544	N/A	N/A			
1	2B21-MS-H12	A-9/06	SPRING	A	S91H2V542	N/A	N/A			
1	2B21-RFW-H9	A-10/04	SPRING	A	S91H2V560	N/A	N/A			

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
1	2B21-RFW-H9	A-10/04	SPRING	A	S91H2V560	N/A	N/A			
1	2B21-RFW-H12	A-10/04	SPRING	A	S91H2V543	N/A	N/A			
1	2B21-RFW-H13	A-10/04	SPRING	A	S91H2V559	N/A	N/A			
1	2B21-RFW-H1	A-11/05	SPRING	A	S91H2V329	N/A	N/A			
1	2B21-RFW-H2	A-11/05	HANGER	A	S91H2V292	191H2028	2-91-1498			MISALIGNED STRUT. ACCEPTABLE AS IS PER GPC ENGINEERING.
1	2B21-RFW-H3	A-11/05	HANGER	U	S91H2V291	191H2028	2-91-1499			LOOSE JAM NUTS, MISALIGNMENT. ACCEPTABLE AS IS PER GPC ENGINEERING.
1	2B21-RFW-H4	A-11/05	SPRING	U	S91H2V290	191H2033	2-91-1532	A	S91H2V497	UNACCEPTABLE SPRING SETTING.
1	2B21-RFW-H5	A-11/05	SPRING	U	S91H2V328	191H2038	2-91-1727	A	S91H2V601	UNACCEPTABLE SPRING SETTING
1	2B21-RFW-R17	A-11/05	RESTRAINT	A	S91H2V327	N/A	N/A			
1	2B21-RFW-R18	A-11/05	RESTRAINT	A	S91H2V326	N/A	N/A			
1	2B21-RFW-R19	A-11/05	RESTRAINT	A	S91H2V322	N/A	N/A			
1	2B21-RFW-R20	A-11/05	MECH SNUBBER	A	S91H2V449	N/A	N/A			
1	2B21-RFW-R21	A-11/05	RESTRAINT	A	S91H2V448	N/A	N/A			
1	2B21-RFW-R23	A-11/05	RESTRAINT	A	S91H2V289	N/A	N/A			
1	2B21-RFW-R24	A-11/05	RESTRAINT	A	S91H2V365	N/A	N/A			
1	2B21-RFW-R25	A-11/05	RESTRAINT	A	S91H2V325	N/A	N/A			
1	2B21-RFW-R26	A-11/05	RESTRAINT	A	S91H2V324	N/A	N/A			
1	2B21-TORSION&LATERAL	A-13/05	RESTRAINT	A	S91H2V281	191H2028	2-91-1500			LOOSE JAM NUTS. ACCEPTABLE AS IS PER GPC ENGINEERING.
1	2B21-RFW-R22	A-13/05	RESTRAINT	A	S91H2V210	N/A	N/A			

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
1	2B31-HA3	A-14/03	SPRING	A	S91H2V574	N/A	N/A			
1	2B31-HA4	A-14/03	SPRING	A	S91H2V575	N/A	N/A			
1	2B31-HA1	A-16/04	SPRING	A	S91H2V579	N/A	N/A			
1	2B31-HA5	A-16/04	SPRING	A	S91H2V588	N/A	N/A			
1	2B31-HA6	A-16/04	SPRING	A	S91H2V587	N/A	N/A			
1	2B31-HA7	A-16/04	SPRING	A	S91H2V586	N/A	N/A			
1	2B31-HA2	A-17/03	SPRING	U	S91H2V573	191H2057	2-91-2334	A	S91H2V589	CRACKED WELDS
1	2B31-SSA12	A-17/03	HYDRAULIC SNUBBER	A	S91H2V581	N/A	N/A			
1	2B31-SSA13	A-17/03	HYDRAULIC SNUBBER	A	S91H2V582	N/A	N/A			
1	2B31-SSA19	A-17/03	HYDRAULIC SNUBBER	A	S91H2V583	N/A	N/A			
1	2B31-SSA20	A-17/03	HYDRAULIC SNUBBER	A	S91H2V584	N/A	N/A			
1	2B31-HB1	A-18/04	SPRING	A	S91H2V580	N/A	N/A			
1	2B31-HB2	A-19/03	SPRING	A	S91H2V178	N/A	N/A			
1	2B31-SSB12	A-19/03	HYDRAULIC SNUBBER	A	S91H2V177	N/A	N/A			
1	2B31-SSB13	A-19/03	HYDRAULIC SNUBBER	A	S91H2V176	N/A	N/A			
1	2B31-SSB14	A-19/03	HYDRAULIC SNUBBER	A	S91H2V193	N/A	N/A			
1	2B31-SSB17	A-19/03	HYDRAULIC SNUBBER	A	S91H2V192	N/A	N/A			
1	2B31-SSB19	A-19/03	HYDRAULIC SNUBBER	A	S91H2V175	N/A	N/A			
1	2B31-SSB20	A-19/03	HYDRAULIC SNUBBER	A	S91H2V174	N/A	N/A			
1	2E11-RHR-H737	A-20/03	RESTRAINT	A	S91H2V451	N/A	N/A			
1	2E11-RHR-H367	A-20/03	HANGER	U	S91H2V197	191H2016	2-91-1408	A	S91H2V493	BROKEN BEARING RACE

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
1	2E11-RHR-R370	A-20/03	RESTRAINT	A	S91H2V352	N/A	N/A			
1	2E11-RHR-R373	A-20/03	RESTRAINT	A	S91H2V351	N/A	N/A			
1	2E11-X12	A-21/05	ANCHOR	A	S91H2V528	N/A	N/A			
1	2E11-RHR-R353	A-22/05	SNUBBER	A	S91H2V482	N/A	N/A			
1	2E11-RHR-R354	A-22/05	SNUBBER	A	S91H2V483	N/A	N/A			
1	2E11-X13A	A-22/05	ANCHOR	A	S91H2V529	N/A	N/A			
1	2E11-RHR-H332	A-22/05	SPRING	U	S91H2V254	191H2023	2-91-1461	A	S91H2V481	UNACCEPTABLE SPRING CAN SETTING
1	2E11-RHR-H333	A-22/05	SPRING	A	S91H2V503	N/A	N/A			
1	2E11-RHR-R351	A-22/05	MECH SNUBBER	A	S91H2V492	N/A	N/A			
1	2E11-RHR-R352	A-22/05	MECH SNUBBER	A	S91H2V491	N/A	N/A			
1	2E11-RHR-H334	A-23/05	SPRING	A	S91H2V255	N/A	N/A			
1	2E11-RHR-H335	A-23/05	SPRING	A	S91H2V526	N/A	N/A			
1	2E11-RHR-R350	A-23/05	MECH SNUBBER	A	S91H2V490	N/A	N/A			
1	2E21-CS-H93	A-24/05	SPRING	A	S91H2V201	N/A	N/A			
1	2E21-CS-H94	A-24/05	SPRING	A	S91H2V200	N/A	N/A			
1	2E21-CS-R98	A-24/05	MECH SNUBBER	A	S91H2V199	N/A	N/A			
1	2E21-CS-R99	A-24/05	RESTRAINT	A	S91H2V198	191H2018	2-91-1409			FROZEN SPHERICAL BEARINGS. ACCEPTABLE AS IS.
1	2E41-HPC1-H108	A-26/06	SPRING	A	S91H2V256	N/A	N/A			
1	2E51-RC1C-H112	A-27/07	SPRING	A	S91H2V257	N/A	N/A			
1	2E51-RC1C-R114	A-27/07	MECH SNUBBER	A	S91H2V465	N/A	N/A			

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
1	2E51-RC1C-R115	A-27/07	RESTRAINT	A	S91H2V214	191H2019	2-91-1410			FROZEN SPHERICAL BEARINGS. ACCEPTABLE AS IS.
1	2E51-RC1C-R116	A-27/07	MECH SNUBBER	A	S91H2V213	N/A	N/A			
1	2E51-RC1C-R117	A-27/07	MECH SNUBBER	A	S91H2V212	N/A	N/A			
1	2E41-HPC1-R107	A-38A/01	RESTRAINT	A	S91H2V431	N/A	N/A			
2	2N11-HPS-H65	B-6/04	RESTRAINT	A	S91H2V237	N/A	N/A			
2	2N11-HPS-R67	B-6/04	MECH SNUBBER	A	S91H2V236	191H2031	2-91-1508			LOOSE WUT. ACCEPTABLE AS IS.
2	2N11-HPS-R68	B-6/04	MECH SNUBBER	A	S91H2V235	N/A	N/A			
2	2N11-MS-H18	B-8/03	SPRING	A	S91H2V239	N/A	N/A			
2	2N11-MS-H29	B-8/03	SPRING	A	S91H2V238	N/A	N/A			
2	2N11-MS-H20	B-9/05	HANGER	A	S91H2V347	N/A	N/A			
2	2N11-MS-H21	B-9/05	SPRING	U	S91H2V563	191H2056	2-91-2274	A	S91H2V604	UNACCEPTABLE SPRING SETTING. RE-EXAMINATION OF SETTING.
2	2N11-MS-R48	B-9/05	HYDRAULIC SNUBBER	A	S91H2V240	N/A	N/A			
2	2N11-U1	B-10/06	ANCHOR	A	S91H2V398	N/A	N/A			
2	2N11-MS-H1	B-10/06	HANGER	A	S91H2V251	N/A	N/A			
2	2N11-MS-H2	B-10/06	HANGER	A	S91H2V348	N/A	N/A			
2	2N11-MS-H12	B-10/06	HANGER	A	S91H2V250	191H2024	2-91-1486			MISALIGNMENT AT STRUT TO CLAMP. ACCEPTABLE AS IS.
2	2N11-MS-H13	B-10/06	HANGER	A	S91H2V249	N/A	N/A			
2	2N11-MS-H14	B-10/06	SPRING	U	S91H2V248	191H2024	2-91-1487	A	S91H2V475	UNACCEPTABLE SPRING CAN SETTING
2	2N11-MS-R37	B-10/06	HYDRAULIC SNUBBER	A	S91H2V247	N/A	N/A			



## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	2N11-MS-R38	B-10/06	HYDRAULIC SNUBBER	A	S91H2V246	191H2031	2-91-1505			BEARINGS FROZEN. ACCEPTABLE AS IS.
2	2N11-MS-R39	B-10/06	MECH SNUBBER	A	S91H2V245	N/A	N/A			
2	2N11-MS-R40	B-10/06	MECH SNUBBER	A	S91H2V244	191H2031	2-91-1507			SNUBBER BEARINGS FROZEN. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2N11-MS-R41	B-10/06	HYDRAULIC SNUBBER	A	S91H2V243	N/A	N/A			
2	2N11-MS-R42	B-10/06	HYDRAULIC SNUBBER	U	S91H2V242	191H2031	2-91-1504	A	S91H2V368	MAST' ON PISTON ROD.
2	2N11-MS-R93	B-10/06	HYDRAULIC SNUBBER	A	S91H2V241	N/A	N/A			
2	2N11-UI	B-12/05	ANCHOR	A	S91H2V282	N/A	N/A			
2	2E11-X-39A	B-14/07	ANCHOR	A	S91H2V252	N/A	N/A			
2	2E11-RHR-H321	B-14/07	RESTRAINT	U	S91H2V253	191H2029	2-91-1496	A	S91H2V427	BEARING RACE SLIPPING. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E11-RHR-H322	B-14/07	SPRING	A	S91H2V179	N/A	N/A			
2	2E11-RHR-H195	B-15/05	SPRING	A	S91H2V014	N/A	N/A			
2	2E11-RHR-HR196	B-15/05	RESTRAINT	A	S91H2V008	N/A	N/A			
2	2E11-RHR-H197	B-15/05	HANGER	U	S91H2V024	191H2001	2-91-1002	A	S91H2V340	LOOSE JAM NUT. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E11-RHR-H198	B-15/05	HANGER	A	S91H2V029	N/A	N/A			
2	2E11-RHR-H199	B-15/05	HANGER	A	S91H2V030	N/A	N/A			
2	2E11-RHR-R235	B-15/05	MECH SNUBBER	A	S91H2V013	N/A	N/A			
2	2E11-RHR-R290	B-15/05	MECH SNUBBER	A	S91H2V025	191H2006	2-91-1166			FROZEN SPHERICAL BEARINGS. ACCEPTABLE AS IS PER GPC ENGINEERING.

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	2E11-RHR-R291	B-15/05	RESTRAINT	U	S91H2V023	191H2001	1-91-1001	A	S91H2V341	FROZEN SPHERICAL BEARINGS
2	2E11-RHR-R292	B-15/05	MECH SNUBBER	A	S91H2V028	N/A	N/A			
2	2E11-RHR-H51	B-17/06	SPRING	A	S91H2V071	N/A	N/A			
2	2E11-RHR-H52	B-17/06	SPRING	A	S91H2V070	N/A	N/A			
2	2E11-RHR-H53	B-17/06	HANGER	A	S91H2V068	191H2004	2-91-1080			FROZEN SPHERICAL BEARINGS. USE AS IS PER GPC ENGINEERING.
2	2E11-RHR-H54	B-17/06	HANGER	A	S91H2V050	N/A	N/A			
2	2E11-RHR-H55	B-17/06	SPRING	A	S91H2V049	N/A	N/A			
2	2E11-RHR-R87	B-17/06	RESTRAINT	A	S91H2V043	N/A	N/A			
2	2E11-RHR-R88	B-17/06	HYDRAULIC SNUBBER	A	S91H2V042	N/A	N/A			
2	2E11-RHR-R89	B-17/06	RESTRAINT	A	S91H2V041	N/A	N/A			
2	2E11-RHR-R90	B-17/06	HYDRAULIC SNUBBER	A	S91H2V060	N/A	N/A			
2	2E11-RHR-R91	B-17/06	MECH SNUBBER	A	S91H2V040	N/A	N/A			
2	2E11-RHR-R93	B-17/06	HYDRAULIC SNUBBER	A	S91H2V066	N/A	N/A			
2	2E11-RHR-R94	B-17/06	HYDRAULIC SNUBBER	A	S91H2V039	N/A	N/A			
2	2E11-RHR-H318	B-17/06	SPRING	A	S91H2V051	N/A	N/A			
2	2E11-RHR-H700	B-17/06	MECH SNUBBER	A	S91H2V067	N/A	N/A			
2	2E11-RHR-H701	B-17/06	HANGER	A	S91H2V048	N/A	N/A			
2	2E11-RHR-H702	B-17/06	MECH SNUBBER	A	S91H2V047	N/A	N/A			
2	2E11-RHR-H703	B-17/06	MECH SNUBBER	A	S91H2V046	N/A	N/A			
2	2E11-RHR-H705	B-17/06	MECH SNUBBER	A	S91H2V045	N/A	N/A			

## 1001 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	M&O NO.	RESULTS	REPORT NO.	REMARKS
2	2E11-RHR-H706	B-17/06	MECH SNUBBER	A	S91H2V044	N/A	N/A			
2	2E11-X-308	B-18/06	ANCHOR	A	S91H2V450	N/A	N/A			
2	2E11-RHR-H57	B-18/06	SPRING	A	S91H2V401	N/A	N/A			
2	2E11-RHR-A58	B-18/06	ANCHOR	A	S91H2V402	N/A	N/A			
2	2E11-RHR-H60	B-18/06	HANGER	A	S91H2V143	191H2014	2-91-1593			BEARING RACE IS SLIPPING OUT. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E11-RHR-R128	B-18/06	HYDRAULIC SNUBBER	A	S91H2V055	N/A	N/A			
2	2E11-RHR-R129	B-18/06	HYDRAULIC SNUBBER	A	S91H2V054	N/A	N/A			
2	2E11-RHR-H200	B-19/05	SPRING	U	S91H2V010	191H2002	2-91-998	A	S91H2V103	LOOSE PIPE CLAMP, IMPROPER SPRING CAN SETTING. CLAMP ACCEPTABLE AS IS PER GPC E/AG
2	2E11-RHR-H71	B-21/06	SPRING	U	S91H2V053	191H2003	2-91-1170	A	S91H2V502	IMPROPER SPRING CAN SETTING.
2	2E11-RHR-R298	B-22/04	RESTRAINT	A	S91H2V406	N/A	N/A			
2	2E11-RHR-R299	B-22/04	RESTRAINT	A	S91H2V399	N/A	N/A			
2	2E11-RHR-R40	B-23/04	ANCHOR	A	S91H2V426	N/A	N/A			
2	2E11-RHR-R43	B-23/04	RESTRAINT	A	S91H2V572	N/A	N/A			
2	2E11-RHR-R46	B-23/04	RESTRAINT	A	S91H2V571	N/A	N/A			
2	2E11-RHR-R75	B-23/04	RESTRAINT	A	S91H2V429	191H2047	2-91-1939			STRUT IS MISALIGNED. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E11-RHR-R76	B-23/04	RESTRAINT	A	S91H2V278	191H2029	2-91-1496			MISALIGNMENT AT PIPE CLAMP. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E11-RHR-H175	U-26/04	SPRING	A	S91H2V020	N/A	N/A			

## 1991 E.I. MATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	PMO NO.	RESULTS	REPORT NO.	REMARKS
2	2E11-RHR-R250	B-26/04	HYDRAULIC SNUBBER	A	S91H2V019	N/A	N/A			
2	2E11-RHR-R251	B-26/04	HYDRAULIC SNUBBER	A	S91H2V018	N/A	N/A			
2	2E11-RHR-H181	B-28/03	SPRING	A	S91H2V021	N/A	N/A			
2	2E11-RHR-H182	B-28/03	SPRING	A	S91H2V016	N/A	N/A			
2	2E11-RHR-H180	B-29/04	SPRING	A	S91H2V015	N/A	N/A			
2	2E11-RHR-H183	B-30/04	SPRING	U	S91H2V078	191H2004	2-91-1078	A	191H21507	IMPROPER SPRING CAN SETTING
2	2E11-RHR-R268	B-30/04	HYDRAULIC SNUBBER	A	S91H2V079	N/A	N/A			
2	2E11-RHR-R269	B-30/04	HYDRAULIC SNUBBER	U	S91H2V077	191H2005	2-91-1160			LOW FLUID LEVEL. SNUBBER WAS TESTED SATISFACTORY.
2	2E11-RHR-H186	B-31/04	SPRING	U	S91H2V090	191H2007	2-91-1164	A	S91H2V486	BEARING RACE IS SLIPPING OUT OF STRUT
2	2E11-RHR-R272	B-31/04	HYDRAULIC SNUBBER	A	S91H2V089	N/A	N/A			
2	2E11-RHR-R274	B-31/04	HYDRAULIC SNUBBER	A	S91H2V306	N/A	N/A			
2	2E11-RHR-H189	B-32/04	SPRING	A	S91H2V508	N/A	N/A			
2	2E11-RHR-H190	B-32/04	SPRING	U	S91H2V058	191H2003	2-91-1171	A	S91H2V509	IMPROPER SETTING, LOOSE NUTS.
2	2E11-RHR-R280	B-32/04	RESTRAINT	A	S91H2V086	191H2007	2-91-1938			MISALIGNED STRUT. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E11-RHR-R282	B-32/04	HYDRAULIC SNUBBER	A	S91H2V507	N/A	N/A			
2	2E11-RHR-R285	B-32/04	HYDRAULIC SNUBBER	A	S91H2V098	N/A	N/A			
2	2E11-RHR-R378	B-32/04	HYDRAULIC SNUBBER	U	S91H2V088	191H2012	2-91-1301			LOW FLUID LEVEL. SNUBBER TESTED SATISFACTORY.
2	2E11-RHR-R379	B-32/04	HYDRAULIC SNUBBER	A	S91H2V087	N/A	N/A			
2	2E11-RHR-H187	B-33/04	SPRING	A	S91H2V304	N/A	N/A			

## 1991 E.I. MATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO.	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	WAO NO.	RESULTS	REPORT NO.	REMARKS
2	2E11-RHR-H108	B-33/04	SPRING	A	S91H2V056	N/A	N/A			
2	2E11-RHR-R276	B-33/04	HYDRAULIC SNUBBER	A	S91H2V035	N/A	N/A			
2	2E11-RHR-R377	B-33/04	HYDRAULIC SNUBBER	A	S91H2V097	N/A	N/A			
2	2E11-RHR-R323	B-34A/00	RESTRAINT	A	S91H2V181	N/A	N/A			
2	2E11-RHR-HR72	B-34B/04	HGR-RESTRAINT	A	S91H2V432	N/A	N/A			
2	2E11-RHR-H163	B-35/04	SPRING	A	S91H2V083	N/A	N/A			
2	2E11-RHR-H164	B-35/04	HANGER	A	S91H2V074	191H2004	2-91-1080			FROZEN SPHERICAL BEARINGS. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E11-RHR-HR165	B-35/04	RESTRAINT	A	S91H2V073	N/A	N/A			
2	2E11-RHR-R231	B-35/04	HYDRAULIC SNUBBER	A	S91H2V017	191H2003	2-91-1255			FROZEN SPHERICAL BEARING. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E11-RHR-R232	B-35/04	RESTRAINT	A	S91H2V084	N/A	N/A			
2	2E11-RHR-R234	B-35/04	RESTRAINT	A	S91H2V072	N/A	N/A			
2	2E11-RHR-H166	B-36/03	HANGER	A	S91H2V142	N/A	N/A			
2	2E11-RHR-H169	B-36/03	SPRING	A	S91H2V510	N/A	N/A			
2	2E11-RHR-H170	B-36/03	HANGER	A	S91H2V076	191H2004	2-91-1080			FROZEN SPHERICAL BEARINGS. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E11-RHR-H171	B-36/03	HANGER	A	S91H2V267	N/A	N/A			
2	2E11-RHR-HR172	B-36/03	RESTRAINT	A	S91H2V110	N/A	N/A			
2	2E11-RHR-R242	B-36/03	RESTRAINT	A	S91H2V009	N/A	N/A			

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	2E11-RHR-R244	B-36/03	RESTRAINT	A	S91H2V075	191H2004	2-91-1080			FROZEN SPHERICAL BEARINGS. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E11-RHR-R380	B-36/03	RESTRAINT	A	S91H2V266	N/A	N/A			
2	2E11-RHR-H167	B-37/04	SPRING	A	S91H2V334	N/A	N/A			
2	2E11-RHR-H168	B-37/04	SPRING	A	S91H2V476	191H2050	2-1984			LOOSE NUT ON CLAMP. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E11-RHR-H173	B-38/04	SPRING	A	S91H2V309	N/A	N/A			
2	2E11-RHR-H174	B-38/04	SPRING	A	S91H2V095	N/A	N/A			
2	2E11-RHR-R245	B-38/04	HYDRAULIC SNUBBER	A	S91H2V096	N/A	N/A			
2	2E11-RHR-R246	B-38/04	RESTRAINT	A	S91H2V308	N/A	N/A			
2	2E11-RHR-R247	B-38/04	RESTRAINT	A	S91H2V307	N/A	N/A			
2	2E11-RHR-R248	B-38/04	RESTRAINT	A	S91H2V057	191H2003	N/A			ANGLED STRUT. USE AS IS PER GPC ENGINEERING.
2	2E11-RHR-H314	B-39/04	SPRING	U	S91H2V195	191H2023	2-91-1462	A	S91H2V428	UNACCEPTABLE SPRING CAN SETTING
2	2E11-RHR-R315	B-39/04	HYDRAULIC SNUBBER	A	S91H2V065	N/A	N/A			
2	2E11-RHR-R316	B-39/04	RESTRAINT	A	S91H2V485	N/A	N/A			
2	2E11-RHR-R317	B-39/04	RESTRAINT	A	S91H2V564	N/A	N/A			
2	2E11-RHR-A177	B-40/03	ANCHOR	A	S91H2V052	N/A	N/A			
2	2E11-RHR-H191	B-40/03	HANGER	A	S91H2V026	N/A	N/A			
2	2E11-RHR-H192	B-40/03	HANGER	A	S91H2V027	N/A	N/A			
2	2E11-RHR-R252	B-40/03	HYDRAULIC SNUBBER	A	S91H2V012	N/A	N/A			

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ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MAO NO.	RESULTS	REPORT NO.	REMARKS
2	2E11-RHR-R253	B-40/03	HYDRAULIC SNUBBER	A	S91R2V011	N/A	N/A			
2	2E11-RHR-R287	B-40/03	RESTRAINT	A	S91R2V022	N/A	N/A			
2	2E11-RHR-H176	B-41/03	SPRING	A	S91R2V085	N/A	N/A			
2	2E11-RHR-H157	B-42/05	HANGER	A	S91R2V034	191R2001	2-91-1002			MISALIGNED STRUT, FROZEN BEARINGS. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E11-RHR-H158	B-42/05	SPRING	A	S91R2V036	N/A	N/A			
2	2E11-RHR-R225	B-42/05	MECH SNUBBER	A	S91R2V035	N/A	N/A			
2	2E11-RHR-R226	B-42/05	MECH SNUBBER	A	S91R2V031	N/A	N/A			
2	2E11-RHR-R230	B-42/05	MECH SNUBBER	A	S91R2V033	N/A	N/A			
2	2E11-RHR-H175	B-42/05	MECH SNUBBER	A	S91R2V037	N/A	N/A			
2	2E11-R1-H179	B-42/05	RESTRAINT	U	S91R2V032	191R2001	1-91-1002	A	S91R2V342	FROZEN BEARINGS
2	2E11-RHR-H150	B-44/05	HANGER	U	S91R2V038	191R2001	2-91-1001	A	S91R2V367	FROZEN BEARINGS, BEARING SLIPPING OUT OF STRUT
2	2E11-RHR-H193	B-46/02	HANGER	A	S91R2V080	N/A	N/A			
2	2E11-RHR-R271	B-46/02	HYDRAULIC SNUBBER	A	S91R2V082	N/A	N/A			
2	2E11-RHR-R286	B-46/02	RESTRAINT	A	S91R2V081	N/A	N/A			
2	2E11-RHR-H184	B-47/03	SPRING	A	S91R2V310	N/A	N/A			
2	2E11-RHR-H161	B-48/06	HANGER	U	S91R2V064	191R2003	2-91-1079	A	S91R2V343	BROKEN BEARING RACE.
2	2E11-RHR-H162	B-48/06	SPRING	A	S91R2V060	N/A	N/A			
2	2E11-RHR-R229	B-48/06	MECH SNUBBER	A	S91R2V061	N/A	N/A			
2	2E11-RHR-R233	B-48/06	MECH SNUBBER	A	S91R2V063	N/A	N/A			



## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	2E11-RHR-R240	B-48/06	MECH SNUBBER	A	S91H2V062	N/A	N/A			
2	2E11-RHR-R714	B-48/06	MECH SNUBBER	A	S91H2V059	N/A	N/A			
2	2E21-CS-H95	B-52/03	HANGER	A	S91H2V130	N/A	N/A			
2	2E21-CS-H96	B-52/03	HANGER	A	S91H2V500	N/A	N/A			
2	2E21-CS-H97	B-52/03	HANGER	A	S91H2V433	N/A	N/A			
2	2E21-CS-R101	B-52/03	RESTRAINT	A	S91H2V129	N/A	N/A			
2	2E21-CS-H15	B-53/04	HANGER	A	S91H2V100	N/A	N/A			
2	2E21-CS-H16	B-53/04	HANGER	A	S91H2V263	191H2022	2-91-1465			STRUT BEARINGS FROZEN. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E21-CS-R57	B-53/04	RESTRAINT	A	S91H2V102	191H2010	2-91-1299			BEARING RACE SLIPPING OUT OF STRUT USE AS IS PER GPC ENGINEERING.
2	2E21-CS-R58	B-53/04	RESTRAINT	A	S91H2V099	N/A	N/A			
2	2E21-CS-R107	B-55/04	MECH SNUBBER	A	S91H2V109	N/A	N/A			
2	2E21-CS-H13	B-56/06	RESTRAINT	A	S91H2V335	N/A	N/A			
2	2E21-CS-R53	B-56/06	HYDRAULIC SNUBBER	A	S91H2V338	N/A	N/A			
2	2E21-CS-R54	B-56/06	RESTRAINT	A	S91H2V336	191H2036	2-91-1728			FROZEN BEARINGS. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E21-CS-R55	B-56/06	RESTRAINT	A	S91H2V337	N/A	N/A			
2	2E21-CS-H9	B-57/04	HANGER	A	S91H2V160	191H2015	2-91-1400			FROZEN SPHERICAL BEARINGS. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E21-CS-H10	B-57/04	HANGER	A	S91H2V158	N/A	N/A			

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MJO NO.	RESULTS	REPORT NO.	REMARKS
2	2E21-CS-H11	B-57/04	HANGER	A	S91R2V159	191R2015	2-91-1400			FROZEN SPHERICAL BEARINGS... ACCEPTABLE AS IS PER OPC ENGINEERING.
2	2E21-CS-R47	B-57/04	RESTRAINT	U	S91R2V264	191R2022	2-91-1464	A	S91R2V422	LOOSE JAM NUT. NUTS ON WALL PLATE NOT TIGHT.
2	2E21-CS-R48	B-57/04	RESTRAINT	U	S91R2V161	191R2015	2-91-1398	A	S91R2V489	BEARING RACE IS CRACKED AT PIPE END, BEARING RACE IS SLIPPING OUT AT ATTACHMENT END
2	2E21-CS-H12	B-58/04	SPRING	A	S91R2V593	N/A	N/A			
2	2E21-CS-A27	B-58/04	ANCHOR	A	S91R2V126	N/A	N/A			
2	2E21-CS-R43	B-58/04	RESTRAINT	A	S91R2V530	N/A	N/A			
2	2E21-CS-R44	B-58/04	RESTRAINT	A	S91R2V531	N/A	N/A			
2	2E21-CS-R45	B-58/04	RESTRAINT	A	S91R2V132	N/A	N/A			
2	2E21-CS-R46	B-58/04	RESTRAINT	A	S91R2V131	N/A	N/A			
2	2E21-CS-R102	B-58/04	RESTRAINT	A	S91R2V128	191R2010	2-91-1300			STRUT CANNOT ROTATE, USE AS IS PER OPC ENGINEERING.
2	2E21-CS-R103	B-58/04	RESTRAINT	A	S91R2V127	N/A	N/A			
2	2E21-CS-R68	B-59/04	RESTRAINT	A	S91R2V091	N/A	N/A			
2	2E21-CS-H21	B-60/04	HANGER	A	S91R2V104	191R2010	2-91-1398			FROZEN SPHERICAL BEARINGS... USE AS IS PER OPC ENGINEERING.
2	2E21-CS-R66	B-60/04	RESTRAINT	A	S91R2V498	N/A	N/A			
2	2E21-CS-R67	B-60/04	RESTRAINT	A	S91R2V499	N/A	N/A			
2	2E21-CS-H708	B-61/05	RESTRAINT	A	S91R2V169	N/A	N/A			
2	2E21-CS-H709	B-61/05	RESTRAINT	A	S91R2V170	N/A	N/A			

## 1991 E.L. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWD NO.	RESULTS	REPORT NO.	REMARKS
2	2E21-CS-R89	B-63/05	RESTRAINT	A	S91H2V167	191H2015	2-91-1400			FROZEN SPHERICAL BEARINGS. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E21-CS-R90	B-63/05	MECH SNUBBER	A	S91H2V168	N/A	N/A			
2	2E21-CS-H91	B-63/05	RESTRAINT	A	S91H2V165	N/A	N/A			
2	2E21-CS-H92	B-63/05	HANGER	A	S91H2V166	N/A	N/A			
2	2E21-CS-H704	B-63/05	RESTRAINT	A	S91H2V163	N/A	N/A			
2	2E21-CS-H705	B-63/05	RESTRAINT	A	S91H2V164	191H2022	2-91-1465			STRUT BEARINGS FROZEN. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E21-UI	B-64/04	ANCHOR	A	S91H2V294	N/A	N/A			
2	2E21-CS-H86	B-64/04	SPRING	A	S91H2V302	N/A	N/A			
2	2E21-CS-R87	B-64/04	HYDRAULIC SNUBBER	A	S91H2V300	N/A	N/A			
2	2E21-CS-H88	B-64/04	RESTRAINT	A	S91H2V301	N/A	N/A			
2	2E21-CS-H702	B-64/04	MECH SNUBBER	A	S91H2V303	N/A	N/A			
2	2E41-HPC1-H28	B-65/04	RESTRAINT	A	S91H2V532	N/A	N/A			
2	2E41-HPC1-H29	B-65/04	HANGER	A	S91H2V568	N/A	N/A			
2	2E41-HPC1-H30	B-65/04	RESTRAINT	A	S91H2V534	N/A	N/A			
2	2E41-HPC1-H31	B-65/04	RESTRAINT	A	S91H2V312	N/A	N/A			
2	2E41-HPC1-R50	B-65/04	MECH SNUBBER	A	S91H2V569	N/A	N/A			
2	2E41-HPC1-R51	B-65/04	RESTRAINT	U	S91H2V488	191H2052	2-91-2061	A	S91H2V595	LOOSE WASHERS & NUTS
2	2E41-HPC1-R53	B-65/04	RESTRAINT	U	S91H2V533	191H2053	2-91-2207	A	S91H2V596	LOOSE WASHERS, GAP BETWEEN WALL AND PLATE

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MAO NO.	RESULTS	REPORT NO.	REMARKS
2	ZE41-HPCI-H96	B-66/05	HANGER	A	S91R2V566	N/A	N/A			
2	ZE41-HPCI-H97	B-66/05	HANGER	A	S91R2V548	N/A	N/A			
2	ZE41-HPCI-H98	B-66/05	HANGER	A	S91R2V379	N/A	N/A			
2	ZE41-HPCI-H99	B-66/05	HANGER	A	S91R2V524	N/A	N/A			
2	ZE41-HPCI-H100	B-66/05	RESTRAINT	A	S91R2V145	N/A	N/A			
2	ZE41-HPCI-HR101	B-66/05	RESTRAINT	A	S91R2V144	N/A	N/A			
2	ZE41-HPCI-R102	B-66/05	RESTRAINT	U	S91R2V380	191R2042	2-91-1862	A	S91R2V567	LOOSE NUTS ON SUPPORT PLATE
2	ZE41-HPCI-R104	B-66/05	RESTRAINT	U	S91R2V295	191R2032	2-91-1533	A	S91R2V446	LOOSE NUTS ON SUPPORT PLATE
2	ZE41-HPCI-R106	B-66/05	RESTRAINT	A	S91R2V146	N/A	N/A			
2	ZE41-HPCI-A709	B-66/05	ANCHOR	U	S91R2V565	191R2058	2-91-2766	A	S91R2V594	LOOSE NUTS ON ANCHOR BOLTS
2	ZE41-HPCI-HR710	B-66/05	RESTRAINT	A	S91R2V147	N/A	N/A			
2	ZE41-HPCI-A65	B-67/03	ANCHOR	A	S91R2V378	N/A	N/A			
2	ZE41-HPCI-H66	B-67/03	HANGER	A	S91R2V108	N/A	N/A			
2	ZE41-HPCI-H67	B-67/03	HANGER	A	S91R2V107	N/A	N/A			
2	ZE41-HPCI-H68	B-67/03	HANGER	A	S91R2V106	191R2008	2-91-1312			MISALIGNED SUPPORT. USE AS IS PER GPC ENGINEERING.
2	ZE41-HPCI-R73	B-67/03	MECH SNUBBER	A	S91R2V105	N/A	N/A			
2	ZE41-HPCI-H88	B-67/03	SPRING	U	S91R2V265	191R2025	2-91-1484	A	S91R2V447	UNACCEPTABLE SPRING CAN SETTING
2	ZE41-HPCI-R94	B-67/03	RESTRAINT	A	S91R2V180	N/A	N/A			
2	ZE41-HPCI-H71	B-68/04	SPRING	A	S91R2V288	N/A	N/A			
2	ZE41-HPCI-H6	B-69/04	SPRING	A	S91R2V287	N/A	N/A			

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ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	NWD NO.	RESULTS	REPORT NO.	REMARKS
2	2E41-HPCI-H7	B-69/04	HANGER	A	S91K2V171	N/A	N/A			
2	2E41-HPCI-A24	B-70/04	ANCHOR	U	S91K2V141	191K2008	N/A			LOOSE NUTS AND WASHERS. OUTSIDE ASME SECTION XI SCOPE.
2	2E41-HPCI-H25	B-70/04	SPRING	U	S91K2V286	191K2032	2-91-1533	A	S91K2V591	UNACCEPTABLE SPRING SETTING
2	2E41-HPCI-H26	B-70/04	HANGER	A	S91K2V285	191K2030	2-91-1501			LOOSE JAM NUTS ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E41-HPCI-R45	B-70/04	MECH SNUBBER	A	S91K2V140	N/A	N/A			
2	2E41-HPCI-R46	B-70/04	RESTRAINT	A	S91K2V467	191K2052	2-91-2061			FROZEN BEARINGS, LOOSE NUT. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E41-HPCI-R47	B-70/04	RESTRAINT	A	S91K2V284	191K2030	2-91-1502			BEARING RACE HAS SLIPPED OUT OF STRUT. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E41-HPCI-R48	B-70/04	RESTRAINT	A	S91K2V283	191K2030	2-91-1503			BEARING RACE IS SLIPPING OUT OF STRUT. ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E41-HPCI-R49	B-70/04	RESTRAINT	A	S91K2V139	191K2008	2-91-1310			BEARING RACE IS SLIPPING OUT OF STRUT, BEARINGS FROZEN. USE AS IS PER GPC ENGINEERING.
2	2E41-HPCI-H40	B-70A/00	HANGER	A	S91K2V137	191K2008	2-91-1311			FROZEN SPHERICAL BEARINGS. USE AS IS PER GPC ENGINEERING.
2	2E41-HPCI-H41	B-70A/00	HANGER	A	S91K2V138	N/A	N/A			
2	2E41-HPCI-H42	B-70A/00	HANGER	A	S91K2V311	N/A	N/A			
2	2E41-HPCI-H43	B-70A/00	HANGER	A	S91K2V153	N/A	N/A			
2	2E41-HPCI-A44	B-70A/00	ANCHOR	A	S91K2V154	N/A	N/A			
2	2E41-HPCI-R64	B-70A/00	RESTRAINT	A	S91K2V136	N/A	N/A			

## 1991 E.I. MATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	M&O NO.	RESULTS	REPORT NO.	REMARKS
2	2E41-HPIC-HR4	B-73/05	RESTRAINT	A	S91H2V135	N/A	N/A			
2	2G51-TD-H1	B-76/04	SPRING	U	S91H2V268	191H2026	2-91-1485	A	S91H2V430	UNACCEPTABLE SPRING CAN SETTING
2	2T48-X-25	B-78/03	ANCHOR	A	S91H2V262	N/A	N/A			
2	2T48-CPUR-H24	B-79/05	HANGER	A	S91H2V148	N/A	N/A			
2	2T48-CPUR-H25	S-79/05	HANGER	A	S91H2V149	N/A	N/A			
2	2T48-CPUR-H26	B-79/05	HANGER	A	S91H2V150	N/A	N/A			
2	2T48-CPUR-H29	B-79/05	HANGER	A	S91H2V151	N/A	N/A			
2	2T48-CPUR-H54	B-79/05	MECH SNUBBER	A	S91H2V152	N/A	N/A			
2	2E51-RC1C-H100	B-82/06	SPRING	A	S91H2V440	N/A	N/A			
2	2E51-RC1C-H101	B-82/06	SPRING	A	S91H2V279	N/A	N/A			
2	2E51-RC1C-H103	B-82/06	HANGER	A	S91H2V297	191H2034	2-91-1531			MISALIGNED STRUT, ACCEPTABLE AS IS PER GPC ENGINEERING.
2	2E51-RC1C-H104	B-82/06	HANGER	A	S91H2V155	N/A	N/A			
2	2E51-RC1C-H105	B-82/06	RESTRAINT	A	S91H2V438	N/A	N/A			
2	2E51-RC1C-H106	B-82/06	RESTRAINT	A	S91H2V439	N/A	N/A			
2	2E51-RC1C-H107	B-82/06	RESTRAINT	A	S91H2V157	N/A	N/A			
2	2E51-RC1C-H109	B-82/06	RESTRAINT	A	S91H2V296	N/A	N/A			
2	2E51-RC1C-H110	B-82/06	MECH SNUBBER	A	S91H2V156	N/A	N/A			
2	2C11-SK1-H16	B-84/04	RESTRAINT	A	S91H2V319	N/A	N/A			
2	2E11-RHR-A36	B-87/02	ANCHOR	A	S91H2V484	N/A	N/A			
2	2E51-U1	B-90/02	ANCHOR	A	S91H2V162	N/A	N/A			

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	M&O NO.	RESULTS	REPORT NO.	REMARKS
2	2E51-RC1C-H68	B-95/02	HANGER	A	S91H2V280	N/A	N/A			
2	2E51-RC1C-H62	B-96/02	HANGER	A	S91H2V437	N/A	N/A			
2	2E51-RC1C-R69	B-96/02	RESTRAINT	A	S91H2V522	N/A	N/A			
2	2E51-RC1C-R71	B-96/02	RESTRAINT	U	S91H2V436	191H2047	2-91-1940	A	S91H2V525	BEARING RACE HAS SLIPPED OUT OF STRUT.
2	2E51-RC1C-R72	B-96/02	RESTRAINT	A	S91H2V435	N/A	N/A			
2	2E51-RC1C-R73	B-96/02	RESTRAINT	A	S91H2V434	N/A	N/A			
2	2E51-RC1C-R75	B-96/02	RESTRAINT	A	S91H2V549	N/A	N/A			
2	2E11-RHR-HR207	B-97/02	RESTRAINT	U	S91H2V556	191H2055	2-91-2247	A	S91H2V598	LOOSE NUTS AND BOLTS
2	2E11-RHR-R300	B-97/02	RESTRAINT	U	S91H2V553	191H2055	2-91-2247	A	S91H2V600	SPHERICAL BEARING DAMAGE
2	2E11-RHR-HR208	B-97/02	RESTRAINT	U	S91H2V557	191H2055	2-91-2247	A	S91H2V599	SPHERICAL BEARING DAMAGE
2	2E11-RHR-H208	B-97A/02	HANGER	A	S91H2V562	N/A	N/A			
2	2E21-CS-R22	B-98/02	HANGER	A	S91H2V299	N/A	N/A			
2	2E21-CS-R74	B-98/02	RESTRAINT	A	S91H2V298	N/A	N/A			
2	2E21-CS-R75	B-98/02	RESTRAINT	A	S91H2V293	N/A	N/A			
2	2E11-PHR-H35	B-101/02	HANGER	A	S91H2V523	N/A	N/A			
3	2E11-RSW-A38	C-4/02	ANCHOR	A	S91H2V116	N/A	N/A			
3	2E11-RSW-R39	C-4/02	HANGER	A	S91H2V114	N/A	N/A			
3	2E11-RSW-H40	C-4/02	HANGER	A	S91H2V113	191H2011	2-91-1306			LOOSE NUTS ON PIPE CLAMP. ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2E11-RSW-H41	C-4/02	HANGER	A	S91H2V112	N/A	N/A			



## 1001 E.J. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MMO NO.	RESULTS	REPORT NO.	REMARKS
3	2E11-RSM-R42	C-4/02	ANCHOR	A	S91R2V015	N/A	N/A			
3	2E11-RSM-R51	C-4/02	RESTRAINT	A	S91R2V111	191R2011	2-91-1305			LOOSE NUTS, FROZEN SPHERICAL BEARING. USE AS IS PER GPC ENGINEERING.
3	2E11-RSM-R37	C-5/02	RESTRAINT	A	S91R2V094	N/A	N/A			
3	2E11-RSM-R48	C-5/02	RESTRAINT	A	S91R2V093	191R2007	2-91-1938			MISALIGNED STRUT. ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2E11-RSM-R50	C-5/02	RESTRAINT	A	S91R2V092	191R2007	2-91-1165			FROZEN BEARINGS. ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2E11-RSM-R1	C-7/02	SPRING	A	S91R2V472	N/A	N/A			
3	2E11-RSM-R13	C-7/02	RESTRAINT	A	S91R2V471	191R2050	2-91-1984			WASHER CRACKED. FROZEN BEARING. ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2E11-RSM-R14	C-7/02	RESTRAINT	A	S91R2V470	191R2050	2-91-1984			FROZEN BEARINGS. ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2E11-RSM-R15	C-7/02	HYDRAULIC SNUBBER	A	S91R2V330	N/A	N/A			
3	2E11-RSM-R16	C-7/02	RESTRAINT	A	S91R2V331	191R2037	2-91-1961			PADDLES TURNED SO STRUT IS NOT FREE TO ROTATE. ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2E11-RSM-R17	C-7/02	RESTRAINT	A	S91R2V332	N/A	N/A			
3	2P41-SM-R284	C-16A/00	RESTRAINT	A	S91R2V101	N/A	N/A			
3	2P41-SM-R91	C-17/02	SPRING	A	S91R2V374	191R2041	2-91-1821			LOOSE BOLT. ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2P41-SM-R92	C-17/02	HANGER	U	S91R2V372	191R2041	2-91-1821	A	S91R2V576	STRUT BENT, BEARINGS FROZEN.
3	2P41-SM-R93	C-17/02	RESTRAINT	A	S91R2V373	N/A	N/A			

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWD NO.	RESULTS	REPORT NO.	REMARKS
3	2P41-SW-HR94	C-17/02	RESTRAINT	A	S91H2V371	N/A	N/A			
3	2P41-SW-H95	C-17/02	RESTRAINT	A	S91H2V376	N/A	N/A			
3	2P41-SW-HR96	C-17/02	RESTRAINT	A	S91H2V377	N/A	N/A			
3	2P41-SW-H97	C-17/02	HANGER	A	S91H2V570	N/A	N/A			
3	2P41-SW-R101	C-17/02	SPRING	A	S91H2V134	N/A	N/A			
3	2P41-SW-R190	C-17/02	RESTRAINT	A	S91H2V133	N/A	N/A			
3	2P41-SW-R191	C-17/02	RESTRAINT	A	S91H2V125	N/A	N/A			
3	2P41-SW-R192	C-17/02	RESTRAINT	A	S91H2V370	191H2041	2-91-1821			FROZEN BEARINGS. ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2P41-SW-R193	C-17/02	RESTRAINT	A	S91H2V369	N/A	N/A			
3	2P41-SJ-H265	C-23/02	SPRING	A	S91H2V375	N/A	N/A			
3	2P41-1SW-R26	C-28/02	RESTRAINT	A	S91H2V124	*91H2309	2-91-1307			LOOSE LOCKNUTS. FROZEN SPHERICAL BEARINGS. USE AS IS PER GPC ENGINEERING.
3	2P41-1SW-H4	C-29/02	RESTRAINT	A	S91H2V121	N/A	N/A			
3	2P41-1SW-H5	C-29/02	RESTRAINT	A	S91H2V120	N/A	N/A			
3	2P41-1SW-H6	C-29/02	RESTRAINT	A	S91H2V119	N/A	N/A			
3	2P41-1SW-H7	C-29/02	RESTRAINT	A	S91H2V118	N/A	N/A			
3	2P41-DSW-A1	C-37/02	ANCHOR	A	S91H2V384	N/A	N/A			
3	2P41-DSW-R2	C-37/02	RESTRAINT	A	S91H2V221	N/A	N/A			
3	2P41-DSW-H3	C-37/02	HANGER	U	S91H2V228	191H2020	2-91-1419	A	S91H2V473	BEARING RACE IS SLIPPING OUT.
3	2P41-DSW-R4	C-37/02	RESTRAINT	U	S91H2V220	191H2020	2-91-1419	A	S91H2V406	BEARING RACE IS SLIPPING OUT.

## 1991 E.E. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO.	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWD NO.	RESULTS	REPORT NO.	REMARKS
3	2P41-DSW-H5	C-37/02	HANGER	A	S91H2V412	191H2046	2-91-1889			FROZEN BEARING, BEARING RACE SLIPPING OUT OF STRUT. ACCEPTABLE AS IS PER GPC ENG.
3	2P41-DSW-R6	C-37/02	RESTRAINT	A	S91H2V405	191H2046	2-91-1889			FROZEN BEARINGS, ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2P41-DSW-H7	C-37/02	HANGER	U	S91H2V227	191H2020	2-91-1419	A	S91H2V411	FROZEN SPHERICAL BEARINGS.
3	2P41-DSW-R8	C-37/02	RESTRAINT	A	S91H2V219	N/A	N/A			
3	2P41-DSW-H9	C-37/02	HANGER	A	S91H2V410	N/A	N/A			
3	2P41-DSW-R10	C-37/02	RESTRAINT	A	S91H2V226	N/A	N/A			
3	2P41-DSW-H11	C-37/02	HANGER	A	S91H2V215	N/A	N/A			
3	2P41-DSW-R12	C-37/02	RESTRAINT	U	S91H2V225	191H2020	2-91-1419	A	S91H-409	FROZEN BEARINGS.
3	2P41-DSW-H13	C-37/02	HANGER	U	S91H2V231	191H2020	2-91-1419	A	S91H2V416	BEARING RACE IS SLIPPING OUT.
3	2P41-DSW-R14	C-37/02	RESTRAINT	U	S91H2V224	191H2020	2-91-1419	A	S91H2V408	FROZEN SPHERICAL BEARINGS.
3	2P41-DSW-H15	C-37/02	HANGER	U	S91H2V230	191H2020	2-91-1419	A	S91H2V415	BEARING RACE IS SLIPPING OUT.
3	2P41-DSW-R16	C-37/02	RESTRAINT	U	S91H2V223	191H2020	2-91-1419	A	S91H2V407	BEARING RACE IS SLIPPING OUT. LOOSE JAM NUT.
3	2P41-DSW-H17	C-37/02	HANGER	U	S91H2V229	191H2020	2-91-1419	A	S91H2V414	FROZEN SPHERICAL BEARINGS.
3	2P41-DSW-R18	C-37/02	RESTRAINT	A	S91H2V222	N/A	N/A			
3	2P41-DSW-R18	C-37/02	RESTRAINT	A	N/A	N/A	2-91-156			* EXAMINED BY GPC GC
3	2P41-DSW-A52	C-37/02	ANCHOR	A	S91H2V417	N/A	N/A			
3	2P41-DSW-A52	C-37/02	ANCHOR	A	N/A	N/A	2-91-156			* EXAMINED BY GPC GC
3	2P41-DSW-A19	C-38/02	ANCHOR	A	S91H2V218	N/A	N/A			

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MAO NO.	RESULTS	REPORT NO.	REMARKS
3	2P41-1SW-H18	C-39/02	HANGER	A	S91H2V123	191H2009	2-91-1309			FROZEN SPHERICAL BEARINGS. USE AS IS PER GPC ENGINEERING.
3	2P41-1SW-R29	C-39/02	RESTRAINT	A	S91H2V122	191H2009	2-91-1308			FROZEN SPHERICAL BEARINGS. USE AS IS PER GPC ENGINEERING.
3	2P41-DSW-R26	C-44/02	RESTRAINT	U	S91H2V217	191H2020	2-91-1419	A	S91H2V104	BEARING RACE IS SLIPPING OUT.
3	2P41-DSW-R30	C-44/02	RESTRAINT	U	S91H2V216	191H2020	2-91-1419	A	S91H2V103	BEARING RACE IS SLIPPING OUT.
3	2P41-DSW-R43	C-46/02	RESTRAINT	A	S91H2V353	191H2044	2-91-1863			BEARING RACE IS SLIPPING OUT OF STRUT. ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2P41-U1	C-48/02	RESTRAINT	A	S91H2V173	N/A	N/A			
3	2P41-SW-H251	C-48/02	RESTRAINT	A	S91H2V174	N/A	N/A			
3	2P41-SW-H282	C-48/02	SPRING	A	S91H2V333	N/A	N/A			COMPONENT IS OUTSIDE SECTION XI SCOPE.
3	2P41-SW-A90	C-49/02	ANCHOR	A	S91H2V117	N/A	N/A			
3	2P41-F96-H1	C-68/01	HANGER	A	S91H2V339	N/A	N/A			
3	2G41-FPC-H71	C-103/02	RESTRAINT	A	S91H2V516	N/A	N/A			
3	2G41-FPC-HR72	C-103/02	RESTRAINT	A	S91H2V515	N/A	N/A			
3	2G41-FPC-HR73	C-103/02	RESTRAINT	A	S91H2V514	N/A	N/A			
3	2G41-FPC-HR74	C-104/02	RESTRAINT	A	S91H2V512	N/A	N/A			
3	2G41-FPC-H76	C-104/02	HANGER	A	S91H2V513	N/A	N/A			
3	2G41-FPC-R111	C-104/02	RESTRAINT	A	S91H2V511	N/A	N/A			
3	2G41-FPC-H78	C-105/02	HANGER	A	S91H2V390	N/A	N/A			
3	2G41-FPC-H79	C-105/02	HANGER	A	S91H2V389	N/A	N/A			

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWD NO.	RESULTS	REPORT NO.	REMARKS
3	2641-FPC-R80	C-105/02	RESTRAINT	A	S91H2V388	N/A	N/A			
3	2641-FPC-R113	C-105/02	RESTRAINT	A	S91H2V387	N/A	N/A			
3	2641-FPC-R114	C-105/02	HYDRAULIC SNUBBER	A	S91H2V386	N/A	N/A			
3	2641-FPC-R115	C-105/02	RESTRAINT	A	S91H2V385	N/A	N/A			
3	2E11-RHR-R47	C-108/02	RESTRAINT	A	S91H2V554	N/A	N/A			
3	2E11-RHR-R84	C-108/02	RESTRAINT	U	S91H2V561	191H2055	2-91-2245	A	S91H2V597	LOOSE NUTS ON ANCHOR BOLTS
3	2E11-RHR-R85	C-108/02	RESTRAINT	A	S91H2V555	N/A	N/A			
3	2B21-MSRV-R12	C-109/02	SPRING	U	S91H2V191	191H2013	2-91-1397	A	S91H2V424	IMPROPER SPRING CAN SETTING
3	2B21-MSRV-R118	C-109/02	MECH SNUBBER	A	S91H2V190	N/A	N/A			
3	2B21-MSRV-R119	C-109/02	MECH SNUBBER	A	S91H2V189	N/A	N/A			
3	2B21-MSRV-R10	C-110/01	SPRING	A	S91H2V396	N/A	N/A			
3	2B21-MSRV-R11	C-110/01	SPRING	A	S91H2V395	191H2043	2-91-1864			LOOSE NUT, ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2B21-MSRV-R113	C-110/01	MECH SNUBBER	A	S91H2V323	N/A	N/A			
3	2B21-MSRV-R114	C-110/01	MECH SNUBBER	A	S91H2V453	191H2049	2-91-1983			MISALIGNED STRUT, ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2B21-MSRV-R115	C-110/01	MECH SNUBBER	A	S91H2V394	N/A	N/A			
3	2B21-MSRV-R116	C-110/01	MECH SNUBBER	A	S91H2V393	N/A	N/A			
3	2B21-MSRV-R117	C-110/01	RESTRAINT	A	S91H2V392	N/A	N/A			
3	2B21-UI	C-111/01	HANGER	A	S91H2V261	N/A	N/A			
3	2B21-MSRV-R15	C-111/01	SPRING	U	S91H2V467	191H2049	1-91-1982	A	S91H2V578	IMPROPER SPRING CAN SETTING
3	2B21-MSRV-R81	C-111/01	RESTRAINT	A	S91H2V550	Q/P	N/A			

## 1991 E.I. MATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	IN- NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
3	2821-MSRV-H13	C-112/01	SPRING	A	S91H2V521	N/A	N/A			
3	2821-MSRV-H14	C-112/01	SPRING	A	S91H2V520	N/A	N/A			
3	2821-MSRV-R75	C-112/01	MECH SNUBBER	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC
3	2821-MSRV-R76	C-112/01	MECH SNUBBER	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC
3	2821-MSRV-R80	C-112/01	MECH SNUBBER	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC
3	2821-MSRV-H17	C-113/02	SPRING	A	S91H2V188	N/A	N/A			
3	2821-MSRV-R47	C-113/02	RESTRAINT	A	S91H2V173	191H2013	2-91-1396			BEARING RACE IS SLIPPING OUT, SPHERICAL BEARINGS ARE FROZEN. ACCEPTABLE AS IS PER GPC ENG.
3	2821-MSRV-R48	C-113/02	RESTRAINT	A	S91H2V172	191H2013	2-91-1395			BEARING RACE IS SLIPPING OUT, SPHERICAL BEARINGS ARE FROZEN. ACCEPTABLE AS IS PER GPC ENG.
3	2821-MSRV-R49	C-113/02	RESTRAINT	A	S91H2V187	N/A	N/A			
3	2821-MSRV-R50	C-113/02	MECH SNUBBER	A	S91H2V186	191H2017	2-91-1420			LOOSE JIM NUT, FROZEN SPHERICAL BEARINGS, ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2821-MSRV-R51	C-113/02	RESTRAINT	A	S91H2V260	191H2027	2-91-1483			BEARING RACE OF LOWER STRUT IS SLIPPING OUT, ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2821-MSRV-H16	C-114/01	SPRING	A	S91H2V466	N/A	N/A			
3	2821-MSRV-R46	C-114/01	MECH SNUBBER	A	S91H2V468	N/A	N/A			
3	2821-MSRV-H1	C-115/01	SPRING	A	S91H2V536	N/A	N/A			
3	2821-MSRV-H2	C-115/01	SPRING	A	S91H2V535	N/A	N/A			
3	2821-MSRV-R70	C-115/01	MECH SNUBBER	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC
3	2821-MSRV-H3	C-116/02	SPRING	A	S91H2V551	N/A	N/A			

## 1991 E.I. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
3	2B21-MSRV-H4	C-117/01	SPRING	A	S91H2V518	N/A	N/A			
3	2B21-MSRV-H5	C-117/01	SPRING	A	S91H2V454	N/A	N/A			
3	2B21-MSRV-H6	C-117/01	SPRING	A	S91H2V185	N/A	N/A			
3	2B21-MSRV-R36	C-117/01	MECH SNUBBER	A	S91H2V455	N/A	N/A			
3	2B21-MSRV-R37	C-117/01	MECH SNUBBER	A	S91H2V456	N/A	N/A			
3	2B21-MSRV-R38	C-117/01	MECH SNUBBER	A	S91H2V457	N/A	N/A			
3	2B21-MSRV-R40	C-117/01	MECH SNUBBER	A	S91H2V527	N/A	N/A			
3	2B21-MSRV-R41	C-117/01	MECH SNUBBER	A	S91H2V184	191H2017	2-91-1420			SNUBBER BEARING FROZEN. ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2B21-MSRV-R42	C-117/01	RESTRAINT	A	S91H2V183	191H2013	2-91-1394			FROZEN SPHERICAL BEARINGS. ACCEPTABLE AS IS PER GPC ENGINEERING.
3	2B21-MSRV-R43	C-117/01	RESTRAINT	A	S91H2V603	N/A	N/A			
3	2B21-MSRV-R121	C-117/01	MECH SNUBBER	A	S91H2V452	N/A	N/A			
3	2B21-MSRV-R45	C-118/02	MECH SNUBBER	A	S91H2V259	N/A	N/A			
3	2B21-MSRV-R45	C-118/02	MECH SNUBBER	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC
3	2B21-MSRV-H7	C-119/02	SPRING	A	S91H2V458	N/A	N/A			
3	2B21-MSRV-H8	C-119/02	SPRING	A	S91H2V546	191H2054	2-91-2205			BENT ROD, ARC STRIKES ON SPRING. USE AS IS PER GPC ENGINEERING.
3	2B21-MSRV-H9	C-119/02	SPRING	A	S91H2V552	N/A	N/A			
3	2B21-MSRV-H18	C-120/02	SPRING	A	S91H2V547	N/A	N/A			
3	2B21-MSRV-H19	C-120/02	SPRING	A	S91H2V545	N/A	N/A			



## 1991 E.J. HATCH UNIT 2 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
3	2B21-MSRV-R55	C-120/02	RESTRAINT	A	S91H2V469	N/A	N/A			
3	2B21-MSRV-R57	C-120/02	MECH SNUBBER	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC
3	2B21-MSRV-R95	C-122	RESTRAINT	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC
3	2B21-MSRV-R62	C-122/02	MECH SNUBBER	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC
3	2B21-MSRV-R66	C-122/02	RESTRAINT	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC
3	2B21-MSRV-H26	C-123/02	SPRING	A	S91H2V504	N/A	N/A			
3	2B21-MSRV-H27	C-123/02	SPRING	A	S91H2V505	N/A	N/A			
3	2B21-MSRV-H29	C-123/02	SPRING	A	S91H2V517	N/A	N/A			
3	2B21-MSRV-R101	C-123/02	MECH SNUBBER	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC
3	2B21-MSRV-R102	C-123/02	RESTRAINT	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC
3	2B21-MSRV-R103	C-123/02	MECH SNUBBER	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC
3	2B21-MSRV-R104	C-123/02	MECH SNUBBER	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC
3	2B21-MSRV-R108	C-124/02	MECH SNUBBER	A	N/A	N/A	2-91-186			* EXAMINED BY GPC QC

SUMMARY OF  
REACTOR PRESSURE VESSEL  
INTERNAL INSPECTIONS

## 1991 REACTOR PRESSURE VESSEL INTERNALS

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-750 Rev.3. This procedure incorporates requirements for ASME Section XI, GE Service Information Letters 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

The four (4) RPV Clad Specimens @ 45 deg., 135 deg., 225 deg., and 315 deg. were visually inspected.

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, stiffeners and stiffener welds, vertical vane bank welds, support bracket weld @ 34, 146, 214, and 326 deg., and the lifting eye and rod. An indication was reported on the steam dryer bank weld number fourteen. The indication in the bank weld number 14 was weld repaired on MWO 2-91-1737. An indication was also reported on steam dryer bank weld number 7. GE engineering determined that the indication was acceptable for continued operation with additional monitoring requested during the next refueling outage.

No other reportable indications were found.

### JET PUMP INSPECTIONS

Remote visual examinations were performed on 14 jet pump inlet mixers in the throat area. The inspections of the inlet mixer throat area detected evidence of erosion. A review of previous IVVI tapes revealed no additional degradation from previous examinations. A visual inspection of 6 jet pump assemblies was performed. No reportable indications were found.

#### MOISTURE SEPARATOR EXAMINATIONS

Remote visual examinations were performed on various components of the moisture separators consisting of: lifting eye, support brackets, stiffeners, and, guide bracket at 0 and 180 deg. No reportable indications were found.

#### FEEDWATER SPARGER

A visual examination of the feedwater sparger @ 45 deg., 135 deg., 225 deg. and 315 deg. consisting of the sparger arms flow holes and welds, sparger tee flow holes 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 was supplied along with the video tapes to the onsite document control department.

E.I. HATCH UNIT 2  
RFO-9 IVVI  
MARCH-APRIL 1991

IVVI TAPE LOG

TAPE NUMBER	TIME COUNTS	COMPONENT DESCRIPTION
EIH2-91-01	0:00.00 - 0:00.18	Lead-in
EIH2-91-01	0:00.18 - 0:02.11	Distance calibration
EIH2-91-01	0:02.11 - 0:02.25	Camera resolution
EIH2-91-01	0:02.25 - 0:07.38	DR CH 8, left weld
EIH2-91-01	0:07.38 - 0:08.32	DR CH 8 crack, left weld
EIH2-91-01	0:08.32 - 0:17.13	DR CH 8, right weld
EIH2-91-01	0:17.32 - 0:23.42	DR CH 7, left weld
EIH2-91-01	0:23.42 - 0:30.14	DR CH 7, right weld
EIH2-91-01	0:30.14 - 0:36.24	DR CH 6, left weld
EIH2-91-01	0:36.24 - 0:41.38	DR CH 6, right weld
EIH2-91-01	0:41.38 - 0:42.14	Camera resolution
EIH2-91-01	0:42.14 - 0:59.30	DR CH 6 left & right welds
EIH2-91-01	0:59.30 - 1:05.23	DR CH 5, left weld
EIH2-91-01	1:05.30 - 1:12.37	DR CH 5, right weld
EIH2-91-01	1:12.37 - 1:18.28	DR CH 4, left weld
EIH2-91-01	1:18.28 - 1:23.11	DR CH 4, right weld
EIH2-91-01	1:23.11 - 1:27.42	DR CH 3, left weld
EIH2-91-01	1:27.42 - 1:37.12	DR CH 3, right weld
EIH2-91-01	1:37.12 - 1:40.36	DR CH 2, right weld
EIH2-91-01	1:40.36 - 1:45.22	DR CH 1, left weld
EIH2-91-01	1:45.22 - 1:53.09	DR CH 1, right weld
EIH2-91-01	1:53.09 - 1:59.27	DR CH 2, left weld
EIH2-91-01	1:59.27 - 2:00.00	Bank Vertical Weld #1 (start)

E.I. HATCH UNIT 2  
RFO-9 IVVI  
MARCH-APRIL 1991

IVVI TAPE LOG

TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION
EIH2-91-02	0:00.00 - 0:00.13	Lead-in
EIH2-91-02	0:00.13 - 0:00.25	Camera resolution
EIH2-91-02	0:00.25 - 0:05.16	Bank Vertical Weld #1 (con't.)
EIH2-91-02	0:05.16 - 0:05.32	Start of Bank Vertical Weld #2
EIH2-91-02	0:05.32 - 0:09.04	Bank Vertical Weld #3
EIH2-91-02	0:09.04 - 0:15.18	Bank Vertical Weld #4
EIH2-91-02	0:15.18 - 0:21.07	Bank Vertical Weld #5
EIH2-91-02	0:21.07 - 0:28.43	Bank Vertical Weld #6
EIH2-91-02	0:28.43 - 0:33.30	Bank Vertical Weld #7
EIH2-91-02	0:33.30 - 0:35.59	Bank Vertical Weld #8
EIH2-91-02	0:35.59 - 0:41.57	Bank Vertical Weld #9
EIH2-91-02	0:41.57 - 0:47.15	Bank Vertical Weld #10
EIH2-91-02	0:47.15 - 0:51.50	Bank Vertical Weld #11
EIH2-91-02	0:51.50 - 0:57.09	Bank Vertical Weld #12
EIH2-91-02	0:57.09 - 1:02.48	Bank Vertical Weld #13
EIH2-91-02	1:02.48 - 1:10.29	Bank Vertical Weld #14
EIH2-91-02	1:10.29 - 1:16.39	Bank Vertical Weld #15
EIH2-91-02	1:16.39 - 1:21.55	Bank Vertical Weld #16
EIH2-91-02	1:21.55 - 1:25.20	Bank Vertical Weld #17
EIH2-91-02	1:25.20 - 1:29.13	Bank Vertical Weld #18
EIH2-91-02	1:29.13 - 1:30.14	Camera resolution
EIH2-91-02	1:30.14 - 1:34.21	Bank Vertical Weld #19
EIH2-91-02	1:34.21 - 1:41.53	Bank Vertical Weld #20

E.I. HATCH UNIT 2  
RFO-9 IVVI  
MARCH-APRIL 1991

IVVI TAPE LOG

TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION
EIH2-91-02	1:41.53 - 1:55.17	Bank Vertical Weld #21
EIH2-91-03	0:00.00 - 0:00.14	Lead-in
EIH2-91-03	0:00.14 - 0:00.36	Camera resolution
EIH2-91-03	0:00.36 - 0:07.10	Bank Vertical Weld #22
EIH2-91-03	0:07.10 - 0:13.02	Bank Vertical Weld #23
EIH2-91-03	0:13.02 - 0:24.15	Bank Vertical Weld #24
EIH2-91-03	0:24.15 - 0:32.20	Bank Vertical Weld #24
EIH2-91-03	0:32.20 - 0:35.35	Bank Vertical Weld #25
EIH2-91-03	0:35.35 - 0:43.04	Bank Vertical Weld #26
EIH2-91-03	0:43.04 - 0:49.08	Bank Vertical Weld #27
EIH2-91-03	0:49.08 - 0:54.22	Bank Vertical Weld #28
EIH2-91-03	0:54.22 - 0:59.48	Bank Vertical Weld #29
EIH2-91-03	0:59.48 - 1:04.45	Bank Vertical Weld #30
EIH2-91-03	1:04.45 - 1:09.30	Bank Vertical Weld #31
EIH2-91-03	1:09.30 - 1:18.57	Bank Vertical Weld #32
EIH2-91-03	1:18.57 - 1:32.12	Bank Vertical Weld #33
EIH2-91-03	1:32.12 - 1:41.00	Bank Vertical Weld #34
EIH2-91-03	1:41.00 - 1:49.21	Bank Vertical Weld #35
EIH2-91-03	1:49.21 - 1:56.37	Bank Vertical Weld #36
EIH2-91-04	0:00.00 - 0:00.10	Lead-in
EIH2-91-04	0:00.10 - 0:01.05	Camera resolution
EIH2-91-04	0:01.05 - 0:06.21	Bank Vertical Weld #37
EIH2-91-04	0:06.21 - 0:15.32	Bank Vertical Weld #38



E.I. HATCH UNIT 2  
RFO-9 IVVI  
MARCH-APRIL 1991

IVVI TAPE LOG

TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION
EIH2-91-04	0:15.22 - 0:24.17	Bank Vertical Weld #39
EIH2-91-04	0:24.17 - 0:29.33	Bank Vertical Weld #40
EIH2-91-04	0:29.33 - 0:49.19	Dryer bank stiffner welds
EIH2-91-04	0:49.19 - 0:49.39	Camera resolution
EIH2-91-04	0:49.39 - 0:50.40	Seal Skirt from 326° to DR CH 8
EIH2-91-04	0:50.40 - 0:54.34	DR CH 8, top weld
EIH2-91-04	0:54.34 - 0:55.55	Seal Skirt from DR CH 8 to DR CH 1
EIH2-91-04	0:55.55 - 0:56.53	DR CH 1, top weld
EIH2-91-04	0:56.53 - 0:58.07	Seal Skirt from DR CH 1 to DR CH 2
EIH2-91-04	0:58.07 - 1:00.40	DR CH 2, top weld
EIH2-91-04	1:00.40 - 1:10.59	Seal Skirt from DR CH 2 to DR CH 3
EIH2-91-04	1:10.59 - 1:14.27	DR CH 3, top weld
EIH2-91-04	1:14.27 - 1:16.20	Seal Skirt from DR CH 3 to DR CH 4
EIH2-91-04	1:16.20 - 1:17.57	DR CH 4, top weld
EIH2-91-04	1:17.57 - 1:19.30	Seal Skirt from DR CH 4 to DR CH 5
EIH2-91-04	1:19.30 - 1:21.25	DR CH 5, top weld
EIH2-91-04	1:21.25 - 1:24.21	Seal Skirt from DR CH 5 to DR CH 6
EIH2-91-04	1:24.21 - 1:29.23	DR CH 6, top weld
EIH2-91-04	1:29.23 - 1:36.44	Seal Skirt from DR CH 6 to DR CH 7
EIH2-91-04	1:36.44 - 1:38.28	DR CH 7, top weld
EIH2-91-04	1:38.28 - 1:39.39	Seal Skirt from DR CH 7 to 326°
EIH2-91-04	1:39.39 - 1:43.16	Dryer support bracket weld @ 34°
EIH2-91-04	1:43.16 - 1:44.57	Dryer support bracket weld @ 146°

E.I. HATCH UNIT 2  
RFO-9 IVVI  
MARCH-APRIL 1991

IVVI TAPE LOG

TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION
EIH2-91-04	1:44.57 - 1:46.56	Dryer support bracket weld @ 214°
EIH2-91-04	1:46.56 - 1:50.14	Dryer support bracket weld @ 326°
EIH2-91-04	1:50.14 - 1:55.14	Access plate weld @ 270°
EIH2-91-05	0:00.00 - 0:00.15	Lead-in
EIH2-91-05	0:00.15 - 0:00.40	Camera resolution
EIH2-91-05	0:00.40 - 0:00.55	Dryer SPT RING 0° - 90° (1st Pass)
EIH2-91-05	0:00.55 - 0:06.35	Dryer SPT RING 90° - 180° (1st Pass)
EIH2-91-05	0:06.35 - 0:11.03	Dryer SPT RING 180° - 270° (1st Pass)
EIH2-91-05	0:11.03 - 0:14.28	Dryer SPT RING 270° - 0° (1st Pass)
EIH2-91-05	0:14.28 - 0:19.40	Dryer SPT RING 0° - 270° (2nd Pass)
EIH2-91-05	0:19.40 - 0:24.11	Dryer SPT RING 270° - 180° (2nd Pass)
EIH2-91-05	0:24.11 - 0:27.50	Dryer SPT RING 180° - 90° (2nd Pass)
EIH2-91-05	0:27.50 - 0:31.39	Dryer SPT RING 90° - 0° (2nd Pass)
EIH2-91-05	0:31.39 - 0:32.10	DR CH 8, size crack
EIH2-91-05	0:32.10 - 0:32.35	Lead-in
EIH2-91-05	0:32.35 - 0:38.43	Separator, lifting eye @ 20°
EIH2-91-05	0:38.43 - 0:46.32	Separator, lifting eye @ 90°
EIH2-91-05	0:46.32 - 0:47.27	Camera resolution
EIH2-91-05	0:47.27 - 1:27.25	Separator, stiffeners
EIH2-91-05	1:27.25 - 1:43.18	Separator, lifting eye @ 200°
EIH2-91-05	1:43.18 - 1:49.02	Separator, lifting eye @ 270°
EIH2-91-05	1:49.02 - 1:54.53	Separator, guide @ 180°
EIH2-91-05	1:54.53 - 1:59.24	Separator, guide @ 0°

E.I. HATCH UNIT 2  
RFO-9 IVVI  
MARCH-APRIL 1991

IVVI TAPE LOG

TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION
EIH2-91-06	0:00.00 - 0:00.20	Lead-in
EIH2-91-06	0:00.20 - 0:00.36	Camera resolution
EIH2-91-06	0:00.36 - 0:11.20	Inside view of separators Rows 1 thru 7 (row 1 @ 90° side)
EIH2-91-06	0:11.20 - 0:29.41	Inside view of separators Rows 8 thru 15 (row 15 @ 270° side)
EIH2-91-06	0:29.41 - 0:56.00	General overall view of periphery of Steam Separator
EIH2-91-06	0:56.00 - 0:58.37	Dryer bank vertical weld #12 indications at 3" camera distance
EIH2-91-06	0:58.37 - 0:58.53	Dryer bank vertical weld #12 indications at 5" camera distance
EIH2-91-06	0:58.53 - 0:59.41	Camera resolution
EIH2-91-06	0:59.41 - 1:53.00	Re-inspection of Dryer upper support ring top side
EIH2-91-07	0:00.00 - 0:00.10	Lead-in
EIH2-91-07	0:00.10 - 0:00.46	Camera resolution
EIH2-91-07	0:00.46 - 0:17.30	Re-inspection of Dryer upper support ring 1st pass on edge 0°-0° CCW
EIH2-91-07	0:17.30 - 0:36.44	Re-inspection of Dryer upper support ring 2nd pass on edge 0°-0° CW
EIH2-91-07	0:36.44 - 1:00.10	Re-inspection of Dryer upper support ring 3rd pass on edge 0°-0° CCW
EIH2-91-07	1:00.10 - 1:25.45	Re-inspection of Dryer upper support ring bottom side
EIH2-91-07	1:25.45 - 1:27.49	Camera resolution
EIH2-91-07	1:27.49 - 1:31.08	Dryer bank vertical weld #2
EIH2-91-07	1:31.08 - 1:34.55	Dryer bank vertical weld #2

E.I. HATCH UNIT 2  
RFO-9 IVVI  
MARCH-APRIL 1991

IVVI TAPE LOG

TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION
EIH2-91-07	1:34.55 - 1:39.50	Sizing of crack on dryer bank vertical weld #14
EIH2-91-07	1:44.29 - 1:46.49	Sizing of cracks near dryer bank vertical weld #7
EIH2-91-08	0:00.00 - 0:00.18	Lead-in
EIH2-91-08	0:00.18 - 0:00.30	Camera resolution
EIH2-91-08	0:00.30 - 0:01.12	Clad patch @ 45°
EIH2-91-08	0:01.12 - 0:03.59	45° FW inner radius
EIH2-91-08	0:03.59 - 0:04.46	Clad patch @ 135°
EIH2-91-08	0:04.46 - 0:07.58	135° FW inner radius
EIH2-91-08	0:07.58 - 0:08.59	Clad patch @ 225°
EIH2-91-08	0:08.59 - 0:13.42	225° FW inner radius
EIH2-91-08	0:13.42 - 0:14.53	Clad patch @ 315°
EIH2-91-08	0:14.53 - 0:18.11	315° FW inner radius
EIH2-91-08	0:18.11 - 0:18.41	Camera resolution
EIH2-91-08	0:18.41 - 0:19.38	Clad patch @ 45°
EIH2-91-08	0:19.38 - 0:22.15	Clad patch @ 135°
EIH2-91-08	0:22.15 - 0:25.32	Clad patch @ 45°
EIH2-91-08	0:25.32 - 0:28.44	Clad patch @ 315°
EIH2-91-08	0:28.44 - 0:32.06	Clad patch @ 225°
EIH2-91-08	0:32.06 - 0:47.39	CS Piping, 10° downcomer
EIH2-91-08	0:47.39 - 0:58.00	CS Piping, 10°-90°, lower pass
EIH2-91-08	0:58.00 - 0:59.03	CS Piping, 90° T-Box
EIH2-91-08	0:59.03 - 1:03.08	CS Piping, 90°-10°, upper pass

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MARCH-APRIL 1991

IVVI TAPE LOG

TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION
EIH2-91-08	1:03.08 - 1:07.48	CS Piping, 90° T-Box
EIH2-91-08	1:07.48 - 1:18.11	CS Piping, 90°-170°, lower pass
EIH2-91-08	1:18.11 - 1:21.57	CS Piping, 170°-90°, upper pass
EIH2-91-08	1:21.57 - 1:34.04	CS Piping, 170° downcomer
EIH2-91-08	1:34.04 - 1:42.17	CS Piping, 190° downcomer
EIH2-91-08	1:42.17 - 1:54.01	CS Piping, 190°-270°, upper pass
EIH2-91-08	1:54.01 - 1:56.32	CS Piping, 270°-210° brkt., lower pass
EIH2-91-08	1:56.32 - 2:00.03	CS Piping, 270° T-box
EIH2-91-09	0:00.00 - 0:00.12	Lead-in
EIH2-91-09	0:00.12 - 0:01.14	Camera resolution
EIH2-91-09	0:01.14 - 0:08.40	CS Piping, 270° T-box to 330° Brkt. upper pass
EIH2-91-09	0:08.40 - 0:11.35	CS Piping, 330° Brkt. to 270° T-box lower pass
EIH2-91-09	0:11.35 - 0:13.05	CS Piping, 330° Brkt. to 350° downcomer
EIH2-91-09	0:13.05 - 0:19.59	CS Piping, 350° downcomer
EIH2-91-09	0:19.59 - 0:22.52	Jet pump #11 mixer
EIH2-91-09	0:22.52 - 0:24.19	Jet pump #12 mixer
EIH2-91-09	0:24.19 - 0:25.51	Jet pump #13 mixer
EIH2-91-09	0:25.51 - 0:35.26	CS Sparger "A" upper pass 270° to 10° T-box
EIH2-91-09	0:35.26 - 0:38.35	CS Sparger "A", 10° T-box
EIH2-91-09	0:38.35 - 0:49.15	CS Sparger "A", 10° T-box to 90°
EIH2-91-09	0:49.15 - 1:08.15	CS Sparger "A", 270° - 90° lower pass



E.I. HATCH UNIT 2  
RFO-9 IVVI  
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IVVI TAPE LOG

TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION
EIH2-91-09	1:08.15 - 1:16.50	CS Sparger "C" upper pass 90° to 170° T-box
EIH2-91-09	1:16.50 - 1:19.50	CS Sparger "C", 170° T-box
EIH2-91-09	1:19.50 - 1:28.26	CS Sparger "C", 170° - 270° upper pass
EIH2-91-09	1:28.26 - 1:28.57	Camera resolution
EIH2-91-09	1:28.57 - 1:42.22	CS Sparger "C", 170° T-box to 270° lower pass
EIH2-91-10	0:00.00 - 0:00.10	Lead-in
EIH2-91-10	0:00.10 - 0:00.30	Camera resolution
EIH2-91-10	0:00.30 - 0:19.50	CS Sparger "B", 270° - 90° lower pass
EIH2-91-10	0:19.50 - 0:39.03	CS Sparger "B", 90° - 270° upper pass
EIH2-91-10	0:39.03 - 0:50.29	CS Sparger "D", 90° - 270° upper pass
EIH2-91-10	0:50.29 - 1:03.00	CS Sparger "D", 270° - 90° lower pass
EIH2-91-10*	1:03.00 - 1:03.10	Camera resolution
EIH2-91-10	1:03.10 - 1:21.53	CS Piping, 10° downcomer (lower)
EIH2-91-10	1:21.53 - 1:36.42	CS Piping, 350° downcomer (lower)
EIH2-91-10	1:36.42 - 1:48.07	CS Piping, 190° downcomer (lower)
EIH2-91-10	1:48.07 - 1:59.04	CS Piping, 170° downcomer (lower)
EIH2-91-11	0:00.00 - 0:22.34	Dryer Re-looks
EIH2-91-11	0:22.34 - 0:22.45	Camera resolution
EIH2-91-11	0:22.45 - 0:24.08	Jet pump #7 mixer

E.I. HATCH UNIT 2  
RFO-9 IVVI  
MARCH-APRIL 1991

IVVI TAPE LOG

TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION
EIH2-91-11	0:24.08 - 0:25.24	Jet pump #8 mixer
EIH2-91-11	0:25.24 - 0:26.42	Jet pump #9 mixer
EIH2-91-11	0:26.42 - 0:28.44	Jet pump #10 mixer
EIH2-91-11	0:28.44 - 0:30.01	Jet pump #11 mixer
EIH2-91-11	0:30.01 - 0:31.19	Jet pump #12 mixer
EIH2-91-11	0:31.19 - 0:32.38	Jet pump #13 mixer
EIH2-91-11	0:32.38 - 0:34.00	Jet pump #14 mixer
EIH2-91-11	0:34.00 - 0:35.10	Jet pump #15 mixer
EIH2-91-11	0:35.10 - 0:36.13	Jet pump #16 mixer
EIH2-91-11	0:36.13 - 0:37.24	Jet pump #17 mixer
EIH2-91-11	0:37.24 - 0:38.42	Jet pump #18 mixer
EIH2-91-11	0:38.42 - 0:40.00	Jet pump #19 mixer
EIH2-91-11	0:40.00 - 0:41.40	Jet pump #20 mixer
EIH2-91-11	0:41.40 - 0:48.42	Jet pump assembly #1
EIH2-91-11	0:48.42 - 0:55.46	Jet pump assembly #2
EIH2-91-11	0:55.46 - 1:16.04	Jet pump assembly #3
EIH2-91-11	1:16.04 - 1:49.55	Jet pump assembly #4
EIH2-91-12	0:00.00 - 0:00.00	Lead-in
EIH2-91-12	0:00.00 - 0:00.00	Camera resolution
FIH2-91-12	0:00.00 - 0:19.45	Jet pump assembly #5
EIH2-91-12	0:19.45 - 0:32.21	Jet pump assembly #6

E.I. HATCH UNIT 2  
RFO-9 IVVI  
MARCH-APRIL 1991

IVVI TAPE LOG

TAPE NUMBER	TAPE COUNTS	COMPONENT DESCRIPTION
EIH2-91-12	0:32.21 - 0:41.44	Jet pump assembly #2
EIH2-91-12	0:41.44 - 0:49.31	Jet pump assembly #1
EIH2-91-12	0:49.31 - 0:50.05	Camera resolution
EIH2-91-12	0:50.05 - 0:58.04	Shroud vertical welds 1AV, 1BV
EIH2-91-12	0:58.04 - 1:07.01	Shroud vertical welds 2AV, 2BV
EIH2-91-12	1:07.01 - 1:10.55	Shroud vertical welds 3AV, 3BV



SUMMARY OF  
AUGMENTED EXAMINATIONS

E.J. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
AUGMENTED EXAMINATIONS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS
<u>REACTOR WATER CLEAN-UP SYSTEM</u>						
--	C-128/01	2G31-3RWCU-4-BD-2	UT-H-400/10	145-H	S91H2C236	UT CAL
--		PIPE TO ELBOW			S91H2U316	NR1
NUREG-0313					S91H2C237	UT CAL
					S91H2U317	NR1
					S91H2U318	N/A THICKNESS
--	C-129/01	2G31-3RWCU-4-D-5	UT-H-400/10	145-H	S91H2C223	UT CAL
--		PIPE TO ELBOW			S91H2U301	NR1
NUREG-0313					S91H2C227	UT CAL
					S91H2U305	NR1
					S91H2U287	N/A THICKNESS
--	C-129/01	2G31-3RWCU-4-D-6	UT-H-400/10	145-H	S91H2C224	UT CAL
--		ELBOW TO PIPE			S91H2U302	NR1
NUREG-0313					S91H2C228	UT CAL
					S91H2U306	NR1
					S91H2U288	N/A THICKNESS
--	C-130/01	2G31-3RWCU-4-R-9	UT-H-400/10	145-H	S91H2C225	UT CAL
--		PIPE TO ELBOW			S91H2U303	NR1
NUREG-0313					S91H2C229	UT CAL
					S91H2U307	NR1
					S91H2U289	N/A THICKNESS
--	C-130/01	2G31-3RWCU-4-R-10	UT-H-400/10	145-H	S91H2C226	UT CAL
--		ELBOW TO PIPE			S91H2U304	NR1
NUREG-0313					S91H2C230	UT CAL
					S91H2U308	NR1
					S91H2U290	N/A THICKNESS

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E.I. HATCH UNIT 2 SPRING 1991 REFUELING OUTAGE  
AUGMENTED EXAMINATIONS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>REACTOR WATER CLEAN-UP SYSTEM</u>							
--	C-131/01	2631-3RWCU-4-R-23 PIPE TO ELBOW	UT-H-400/10	145-H	S91H2C234	UT CAL	
--					S91H2U313	NRI	
NUREG-0313					S91H2U319	N/A THICKNESS	
--	C-131/01	2631-3RWCU-4-R-24 ELBOW TO PIPE	UT-H-400/10	145-H	S91H2C235	UT CAL	
--					S91H2U314	NRI	
NUREG-0313					S91H2U320	N/A THICKNESS	

SUMMARY  
OF CLASS 1 AND 2  
REPAIRS AND REPLACEMENTS

## REPAIRS AND REPLACEMENTS

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

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

REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	MPL	TEST	REMARKS
** MWO: 2-91-114			
2P41-COOLIA PUMP	2P41	NORMAL FUNCTIONAL TESTING	PUMP IS ASME CLASS III
** MWO: 2-91-0536			
2P41-F320B MIN FLOW VALVE	2P41	VISUAL EXAM.	NONE
** MWO: 2-90-3064			
F320A MIN.FLOW VALVE	2P41	PT,VISUAL,AND VOLUMETRIC,OPT	VALVE CAN NOT BE HYDRO TESTED DUE TO LOCATION IN AN OPEN ENDED SYSTEM.OPERATING PRESSURE TEST PERFORMED
** MWO: 2-90-3066 R-1			
2P41-F320C MIN.FLOW VALVE	2P41	SURFACE,MT AND VISUAL	HYDRO TEST IS NOT PRACTICAL VALVE IS IN AN OPEN ENDED SYSTEM.
** MWO: 2-91-1710			
2B31-COOLIANB RECIRC PUMP CASE	2B31	VISUAL,SYSTEM LEAKAGE	MACHINING WAS REQUIRED TO BRING DIMENSIONS TO WITH IN MANUFACTURERS DRAWING DIMENSIONS
** MWO: 2-91-1079 REV 1			
SUPPORT H-161	2B11	(VISUAL)	NONE

REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	NPL	TEST	REMARKS
** MWO: 2-91-1079 REV.2			
SUPPORT H-1E1	2E11	(VISUAL)	MWO WAS REVISED TO INCLUDE REPLACING STRUT.
** MWO: 2-90-5127 H-1			
MSRV SUPPORT H-20	2B21	NONE	3/4 CONNECTING PLATE WAS CUT TO ALLOW FOR SEISMIC CONSIDERATIONS.
** MWO: 2-90-3596			
2E11 POBBA	2E11	NONE.	VALVE WAS REPLACED BECAUSE IF NORMAL WEAR. COMPLETE REPLACEMENT DUE TO LACK OF SPARE PARTS AND AVAILABILITY OF COMPLETE ASSEMBLY.
** MWO: 2-91-1860			
2B21 MSRV-R40 HANGER	2B21	(VT-3)	NONE
** MWO: 2-91-1078			
2E11 RHR H183 SPRING CAN	2E11	VISUAL (VT-3/4)	NONE
** MWO: 2-91-1487			
2N11 MS SPRING CAN SUPPORT	2N11	VISUAL (VT-3)	NONE

REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	NPL	TEST	REMARKS
** MWO: 2-91-1079			
* 2E11 SUPPORT H181	2E11	VISUAL (VT-3)	NONE
** MWO: 2-91-1532			
* 2B21 SPRING CAN BFW-H4,MS H-7	2B21	VISUAL (VT-3)	NONE
** MWO: 2-91-1484			
* 2E41 SPRING CAN H-88	2E41	VISUAL (VT-3)	NONE
** MWO: 2-91-1171			
* 2E11 RRR H191,SPRING CAN	2E11	VISUAL (VT-3)	NONE
** MWO: 2-91-1462			
* 2E11 RRR SPRING CAN	2E11	VISUAL (VT-3)	NONE
** MWO: 2-91-1461			
* 2E11 RRR SPRING CAN H-332	2E11	VISUAL (VT-3)	NONE
** MWO: 2-91-1485			
* 2E51 TORUS PURE SPRING CAN	2E51	VISUAL (VT-3)	NONE



REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	MPL	TEST	REMARKS
** MWO: 2-91-1348			
2P41 P-115A 4" GATE VALVE	2P41	VISUAL, HYDRO.	THIS IS THE FIRST OF TWO EVALUATIONS DONE ON THIS MWO.
** MWO: 2-91-1348 R-1			
2P41-F115A PSW GATE VALVE	2P41	VISUAL, HYDRO.	THIS IS THE SECOND OF TWO EVALUATIONS OF THIS MWO
** MWO: 2-91-1002			
2E11-BHR-H167 SUPPORT	2E11	(VT-3)	
** MWO: 2-91-1308			
2P41-IDW-R29 STRUT	2P41	(VT-3)	
** MWO: 2-91-1821 RHV 1			
2P41 SUPPORT H-91, 92, R192	2P41	(VT-3)	
** MWO: 2-91-1307			
2P41-IDW-R26 RESTRAINT	2P41	(VT-3)	
** MWO: 2-91-1589			
2E11-P2096 BHRWS AIR RELEASE	2E11	NORMAL SYSTEM LEAKAGE	

REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	MPL	TEST	REMARKS
** MWO: 2-91-1309			
2P41-18W-H18	2P41	(VT-3)	
** MWO: 2-91-1862			
2E41 HPCI R102 SUPPORT	2E41	NONE,	NONE
** MWO: 2-91-1981			
2E41-2HPCI-10-D-32 PIPE	2E41	WT/PT	NO WELDING OR GRINDING WAS REQUIRED TO REMOVE INDICATIONS, ONLY BUFFING WAS REQUIRED.
** MWO: 2-91-1729			
2E21-MSRV-R61 HANGER	2E21	(VT-3)	NONE
** MWO: 2-91-2330			
2E31-HB-2 HANGER	2E31	VT-3	ADDITIONAL WELD IS PER A/E RECOMMENDATION
** MWO: 2-91-2214			
2E51-FOOT VALVE	2E51	PRESSURE TEST	PRESSURE TEST WAS PERFORMED DURING THE VESSEL ISI HYDRO TEST.

REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	NPL	TEST	REMARKS
** NWO: 2-91-2271			
2011-P019 VALVE	2011	NONE	NONE
** NWO: 2-91-1781			
2T48-P210 4" GATE VALVE	2T48	INSPECT FOR LEAKAGE AT PRESSURE	NONE
** NWO: 2-91-2081			
2841 SUPPORTS R-51, R-46	2841	(VT-3)	NONE
** NWO: 2-91-1736			
2T48-P209 4" GATE VALVE	2T48	INSPECT FOR LEAKS AT PRESSURE	NONE
** NWO: 2-91-2247 R-1			
2811 SUPPORTS (VARIOUS)	2811		
** NWO: 2-91-2207			
2841 HPCI SUPPORT R-53	2841	(VT-3)	NONE
** NWO: 2-91-2188			
2841 HPCI BANDERS (VARIOUS)	2841	(VT-3)	NONE

REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	MPL	TEST	REMARKS
** HWO: 2-91-2274			
2N11 MAIN STEAM, HANGER H-21	2N11	(VT-3)	NONE
** HWO: 2-91-139			
2B31-COO1A RECIRC.PUMP	2B31	HYDRO DURING VESSEL HYDRO.	
** HWO: 2-91-2245			
2E11 RHR SUP:PORT R-84	2E11	VT-3	NONE
** HWO: 2-91-158			
2B31-COO1B RECIRC.PUMP	2B31	HYDRO.DURING VESSEL HYDRO.	NONE
** HWO: 2-91-1589			
2B31-COO1B RECIRC.PUMP	2B31	HYDRO DURING VESSEL HYDRO.	NONE
** HWO: 2-30-1077 REV.1			
2E11 VALVE F140B	2E11	NONE	NONE
** HWO: 2-91-0136			
2B31-COO1A RECIRC MOTOR	2B31	HYDRO DURING VESSEL HYDRO.	NONE

REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	MPL	TEST	REMARKS
** MWO: 2-91-2206			
2E11 RHR SUPPORTS H-35/R-75,97	2E11	(VT-3)	NONE
** MWO: 2-91-1905			
2E11-RHR-H157 SUPPORT	2E11	(VT-3)	NONE
** MWO: 2-91-1825			
2B21 -1FW-12AA-9	2B21	SURFACE,PT. UT	NOT CODE REPAIR.OVERLAYED PER NUREG 0313.
** MWO: 2-91-2082			
2B21-MSRV-R-56 PIPE SUPPORT	2B21	(VT-3)	NONE
** MWO: 2-91-522			
2E32-W006B,F,R,P,AND SPARE	2E32	SURFACE,DCR FUNCTIONAL TEST	SYSTEM IS OPEN ENDED,FULL FLOW TEST TO TEST FOR OBSTRUCTIONS WAS PERFORMED.
** MWO: 2-90-5150			
2B21-F016 VALVE	2B21	OPERATING PRESSURE TEST.	NONE
** MWO: 2-91-1383			
2B21-F010A FEEDWATER CHECK	2B21	OPERATING PRESSURE TEST.	NONE

REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	NPL	TEST	REMARKS
** MWO: 2-90-3593			
2B11-FO25A RHR RELIEF VALVE	2B11	SURFACE, (PT)	NONE
** MWO: 2-91-710			
2P41 VALVES AND PIPING	2P41	HYDROSTATIC	PIPING AND VALVES ARE TEMPORARY INSTALLATION. WORK IS BEING PERFORMED UNDER AN APPROVED DCR AND APPROVED PLANT PROCEDURES. ALL MATERIAL HAS BEEN APPROVED BY DESIGN ENGINEERING PRIOR TO INSTALLATION
** MWO: 2-91-1170			
2B11 RHR RT1 SPRING CAN SUPP.	2B11	(VT-3)	
** MWO: 2-91-0137			
2B31-C001B RECIRC MOTOR	2B31	HYDRO	
** MWO: 2-91-705			
2B21-FO13W RELIEF VALVE	2B21	CHECK FOR LEAKS AT PRESSURE	
** MWO: 2-91-708			
2B21-FO13W RELIEF VALVE	2B21	CHECK FOR LEAKS AT PRESSURE	

REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	MPL	TEST	REMARKS
** MWO: 2-91-707			
x			
2B21-FO13L RELIEF VALVE	2B21	CHECK FOR LEAKS AT PRESSURE	
** MWO: 2-91-706			
x			
2B21-FO13K RELIEF VALVE	2B21	CHECK FOR LEAKS AT PRESSURE	
** MWO: 2-91-703			
x			
2B21-FO13V RELIEF VALVE	2B21	CHECK FOR LEAKS AT PRESSURE	
** MWO: 2-91-701			
x			
2B21-FO13C RELIEF VALVE	2B21	CHECK FOR LEAKS AT PRESSURE	
** MWO: 2-91-700			
x			
2B21-FO13D RELIEF VALVE	2B21	CHECK FOR LEAKS AT PRESSURE	
** MWO: 2-91-699			
x			
2B21-FO13A RELIEF VALVE	2B21	CHECK FOR LEAKS AT PRESSURE	
** MWO: 2-91-698			
x			
2B21-FO13E RELIEF VALVE	2B21	CHECK FOR LEAKS AT PRESSURE	

REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	NPL	TEST	REMARKS
** MWO: 2-91-705			
2B21-PO13H RELIEF VALVE	2B21	CHECK FOR LEAKS AT PRESSURE	
** MWO: 2-90-5125			
2B21-PO13D RELIEF VALVE	2B21	CHECK FOR LEAKS AT PRESSURE	
** MWO: 2-91-2552			
2G31-PO39 CHECK VALVE	2G31	OBSERVE FOR LEAKS AT PRESSURE	SKIM CUTTING IS A NORMAL REPAIR PER THE VENDOR.
** MWO: 2-91-704			
2B21-PO13G RELIEF VALVE	2B21	CHECK FOR LEAKS AT PRESSURE	
** MWO: 2-91-702			
2B21-PO13D RELIEF VALVE	2B21	CHECK FOR LEAKS AT PRESSURE	
** MWO: 2-90-4801			
2P41-PO03B	2P41	NONE	NONE
** MWO: 2-91-0284 REV 1			
2E41-PO20 RELIEF VALVE	2E41	LEAKAGE TEST DURING OPERATION	REPAIR MADE AS A RESULT OF FABRICATION ERROR NOT SERVICE INDUCED PROBLEM.



REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	WPL	TEST	REMARKS
** MW0: 2-91-2334			
2B31-HA-2 HANGER	2B31	VISUAL VT-4	CAUSE OF FAILURE WAS DUE TO INADEQUATE WELD ON SUPPORT.
** MW0: 2-89-5130 REV 1			
2P41-F101B 4" GATE VALVE	2P41	HYDRO	NONE
** MW0: 2-91-186			
2B21 SUPPORTS	2B21	VT-4	CODE CASE N-224 AND N-71.
** MW0: 2-89-5130			
2P41-F101B 4" GATE VALVE	2P41	VISUAL HYDRO.	NONE
** MW0: 2-90-3929			
2G11-F001B 2" CHECK VALVE	2G11	VISUAL OBSERVE FOR LEAKAGE	NONE
** MW0: 2-90-3933			
2G11-F017B	2G11	OBSERVE FOR LEAKAGE AT PRESS.	NONE
** MW0: 2-90-3933 REV 1			
2G11-F017B	2G11	NONE	NONE

REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	MPL	TEST	REMARKS
** MWO: 2-88-3369 R-1			
* 2P41 PIPE	2P41	VT,PT OR MT. HYDRO.	NONE
** MWO: 2-91-0585			
* 2P41 PIPE	2P41	VISUAL ,HYDRO.	WORK PERFORMED UNDER DCR-90-185.
** MWO: 2-90-5105			
* 2B11-2146 CONTROL ROD DRIVES	2B11	OPERATING PRESSURE TEST.	VT-2 PERFORMED DURING VESSEL PRESSURE TEST PRIOR TO STARTUP.
** MWO: 2-90-4127			
* 2B21 FO13B	2B21	OPERATING PRESSURE TEST	
** MWO: 2-90-3455			
* 2B21 FO13A	2B21	OPERATING PRESSURE TEST	
** MWO: 2-90-3456			
* 2B21 FO13B	2B21	OPERATING PRESSURE TEST	
** MWO: 2-90-3457			
* 2B21-FO13C	2B21	OPERATING PRESSURE TEST	

REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	MPL	TEST	REMARKS
** MWO: 2-90-3460			
2B21-FO13P	2B21	OPERATING PRESSURE TEST	
** MWO: 2-90-3461			
2B21-FO13Q	2B21	OPERATING PRESSURE TEST	
** MWO: 2-90-3462			
2B21-FO13R	2B21	OPERATING PRESSURE TEST	
** MWO: 2-90-3463			
2B21-FO13X	2B21	OPERATING PRESSURE TEST	
** MWO: 2-90-3464			
2B21-FO13L	2B21	OPERATING PRESSURE TEST	
** MWO: 2-90-3465			
2B21-FO13M	2B21	OPERATING PRESSURE TEST	
** MWO: 2-91-1788			
2B21-FO19 GATE VALVE	2B21	INSP. AT SYSTEM PRESSURE & TEMP	

REPAIR AND REPLACEMENT FILES

UNIT 2

COMPONENT	MPL	TEST	REMARKS
** MWO: 2-91-1773			
2E32 FLOW ELEMENTS	2E32	SURFACE (PT)	PRESSURE TEST WAS PERFORMED PER SPECIAL PURPOSE PROCEDURE. 428P-050291-QY-1-25
** MWO: 2-91-1360			
2E21-PO280	2E21	VT-2	
** MWO: 2-90-1078			
2E11-PO91B	2E11	SURFACE(PT)CHECK AT PRESSURE	NONE
** MWO: 2-90-1079			
2E11-PO91A	2E11	SURFACE (PT) CHECK AT PRESSURE	
** MWO: 2-91-1951			
2E11 PIPE	2E11	NONE REQUIRED	INDICATIONS WERE REMOVED BY LIGHT FLAPPING