

OWNER'S DATA REPORT  
FOR  
INSERVICE INSPECTION  
EDWIN I. HATCH NUCLEAR PLANT  
UNIT 1  
FEBRUARY 1990 - JUNE 1990

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NOTE: Portions of this report are compiled from Southern Company Services issued report; "Nondestructive Examination Of Selected Class 1, 2, and 3 Components", for the Spring 1990 Refueling Outage at E.I. Hatch Nuclear Plant, Unit 1. This report is available for review in the Records Management Department at the plant site.

## LIST OF ABBREVIATIONS

ANI/ANII	Authorized Nuclear Inspector/Authorized Nuclear Inservice Inspector
ASME	American Society of Mechanical Engineers
ASNT	American Society for Nondestructive Testing
BC	Branch Connection
BWR	Boiling Water Reactor
CH	Closure Head
CONT	Containment
CPI	Containment Purge and Inerting System
CRD	Control Rod Drive System
CS	Core Spray System
CU	Clean-up
C&L	Cramer and Lindell Engineers
DCR	Design Change Request
ECCS	Emergency Core Cooling Systems
ET	Eddy Current Examination
EPRI	Electric Power Research Institute
FB	Flange Bolting
FPC	Fuel Pool Cooling System
FW	Feedwater System
GE	General Electric
GPC	Georgia Power Company
HL	Hanger Lug
HPCI	High Pressure Coolant Injection System
INF	Indication Notification Form
IGSCC	Intergranular Stress Corrosion Cracking
ISI	Inservice Inspection
ITL	International Testing Laboratories
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
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
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

Abbreviations - cont.

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
KINTSA	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
SCS	Southern Company Services
SIAI	Structural Integrity Associates, Inc.
SER	Service
SRV	Safety Relief Valve
TDP	Torus Drainage and Purification System
TSB	Turbine Steam Bypass System
UT	Ultrasonic Examination
VLV	Valve
VT	Visual Examination

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

TOTAL NUMBER OF SHEETS 132

FORM NIS-1

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

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

<u>Component or Appurtenance or System</u>	<u>Manufacturer or Installer</u>	<u>No. of Fittings or Components Inspected</u>	<u>State or Province Number</u>	<u>National Board No.</u>
<u>Rx. Pressure Vessel</u>	<u>Combustion Eng.</u>	<u>20769</u>	<u>N/A</u>	<u>20769</u>
<u>Rx. Pressure Vessel</u>	<u>Combustion Eng.</u>	<u>20769</u>	<u>N/A</u>	<u>20769</u>
<u>1B21 Main Steam</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1B21 Feedwater</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1B21 M.S. Relief</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1B31 Rx. Recirc</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1B31 Recirc Pump</u>	<u>Byron Jackson</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1C11 CRD</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1C41 SBLC</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1E11 RHR</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1E21 Core Spray</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1E41 HPCI</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1E51 RCIC</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>

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

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

\*\* Exception taken to note 2.

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>1G31 RWCU</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1G41 EPC &amp; CU</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1N11 MS Auxiliary</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1N37 Turbine Bypass</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1P41 Plt Serv Water</u>	<u>Pullman Power Prod.</u>	<u>*</u>	<u>N/A</u>	<u>N/A</u>
<u>1T48 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 02/17/90 to 06/04/90.
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 8/10 19 90 Signed Georgia Power Company By Charles T. Moore  
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 02/90 to 06/90 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 13-AUG 19 90

DR. Lawrence  
Inspector's Signature

Commissions

Georgia - GA00115

National Board, State, Province, & No.

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

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

NIS-1 Form Supplementary Information

Owner's Data Report  
for  
Inservice Inspection

Date: July 2, 1990

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

Name & Address of Nuclear Generating Plant:

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

Name Assigned to Nuclear Plant Station:

Edwin I. Hatch Nuclear Plant  
Unit 1

Commercial Service Date: December 31, 1975

Gross Generating Capability:

2436 MWt, 813 MWe

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

National Board Number Assigned by Manufacturer: N/A

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  
Standby Liquid Control System  
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  
Turbine Steam Bypass System

### System Pressure Tests

<u>System</u>	<u>Class</u>	<u>Test Required</u> <u>Leakage *</u>
Reactor Pressure Vessel and Associated Class 1 Piping and components	1	
RHR (1E11)	2	1 Hydrostatic
Main Steam (1N11)	2	1 Hydrostatic
PSW (1P41)	2	1 Hydrostatic
HPCI (1E41)	2	1 Functional
PHRSW (1E11)	3	2 Hydrostatic
PSW (1P41)	3	14 Hydrostatic
FPC (1G41)	3	1 Inservice
Main Steam Relief (1B21)	3	11 Pneumatic

\* Test pressure was that as required for hydrostatic test due to inclusion of Main Steam Line Hydrostatic Test per Code Case N-479.

### 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

#### 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  
Turbine Steam Bypass System  
Control Rod Drive System

#### Class 3

Main Steam Safety/Relief Valve Discharge System  
RHR Service Water System  
Plant Service Water System



Name & Address of Manufacturer of Components:

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

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

3. Piping Supports and Hangers (Classes 1, 2, and 3)
  - a. Bergen-Paterson Pipe Support Corporation  
Laconia, NH
  - b. ITT Grinnell Corporation  
Providence, Rhode Island
  - c. Pacific Scientific  
Anaheim, CA
4. Valves, Pumps, and Heat Exchangers
  - a. 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 1990 - June 1990

Completion Date of Inservice Inspection:

June 4, 1990

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

Name & Mailing Address of Inspector's Employer:

The Hartford Steam Boiler Inspection and Insurance Company  
1117 Perimeter Center West  
Suite E 301  
Atlanta, Georgia 30338

## ABSTRACT

An Inservice Inspection of selected Class 1, 2 and 3 components at Georgia Power Company's Edwin I. Hatch Nuclear Plant Unit 1 was performed during the Spring 1990 Maintenance/Refueling Outage. The components were examined in accordance with the applicable ISI Outage Plan, including any changes made during the outage as approved by GPC.

Edwin I. Hatch Unit 1 is currently in the second period of the second 10-Year ISI 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. SCS personnel and their contractors; LMT and GE performed NDE of the selected welds and components. In addition, GE assisted SCS personnel with VT examination of selected RPV internal components. SCS or GE NDE procedures were utilized for all ASME Section XI Examinations. LMT and GE personnel were qualified to the applicable SCS procedures and EPRI certified inspectors were utilized for all examinations involving IGSCC susceptible materials. GE procedures were used for mechanized ultrasonic examination only and exams were performed by GE inspectors.

SCS 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 work.

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 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, "DWR 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.
- SCS "Inservice Inspection Outage Plan, Edwin I. Hatch Nuclear Plant, Unit 1 1990 Spring Refueling Outage Revision 1, Deviation 009".
- SCS "Second Ten-Year Examination Plan, Edwin I. Hatch Nuclear Plant Unit 1, Revision 4, Deviation 003."



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

Class 1

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

Class 2

Residual Heat Removal System (1E11)  
Core Spray System (1E21)  
High Pressure Coolant Injection System (1E41)  
Containment Purge and Inerting System (1T43)  
Control Rod Drive System (1C11)  
Reactor Water Cleanup System (1G31)  
Reactor Core Isolation Cooling System (1E51)  
Main Steam Auxiliary System (1N11)  
Turbine Steam Bypass System (1N37)

Class 3

Service Water System (1E11) (1P41)  
Fuel Pool Cooling System (1G41)  
Main Steam Relief Valve Discharge Piping (1B21)

Other - Augmented (Non ASME Section XI)

Eddy-current examinations were performed on the following components:

Unit 1 Feedwater Heaters 7A, 7B, 8A, 8B, 10A, 10B, 12A, 12B, and the Main Generator Hydrogen and Stator Water Coolers. A separate report issued by C&L and distributed by SCS 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 SCS and was submitted to GPC engineering.

Seven (7) RWC 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 dated June 29, 1990.

#### Category A

Twenty (20) Category A welds were examined using UT and PT examination techniques and one (1) weld was examined by PT only. No rejectable indications were detected.

#### Category C

The original examination scope included twenty-one (21) Category C welds. However, early in the outage new IGSCC indications were detected which resulted in examination scope expansion. By outage end twenty-five (25) Category C welds had been examined using UT and PT techniques and thirty-one (31) welds were examined using UT only. Seven (7) of these welds were found to be unacceptable for continued operation and all seven (7) were overlay repaired. The classification of these welds is now Category E per NUREG 0313 and they will be examined as such in future outages. Listed below are the Category C welds which were overlay repaired.

1B31-1RC-28B-13	1B31-1RC-28B-9
1B31-1RC-28B-14	1B31-1RC-28A-7
1B31-1RC-28B-15	1B31-1RC-28A-8
1B31-1RC-28A-14	

#### Category D

Eleven (11) Category D welds were examined using UT and PT NDE techniques. No rejectable indications were detected.

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

#### Category E

The original examination scope included twenty-five (25) of the total thirty-four Category E (overlayed) welds. UT examination revealed new IGSCC indications and some original cracks with new growth which warranted examination scope expansion. By outage end all thirty-four (34) Category E welds were examined by UT and PT NDE techniques. All results for new indication or crack growth were evaluated by Structural Integrity Associates, Inc. and found to be acceptable for continued service.

Note that twelve (12) new overlays were added during this outage which results in a final total of forty-six (46) Category E overlays. Examinations were performed on each of the twelve (12) new overlays. See the sections on Category C and Category F examinations for the additional overlay weld numbers.



### Category F

All Category F welds require examination each refueling outage. Therefore all nine (9) of these welds were scheduled to be examined during the outage. New indications and/or crack growth was detected in five (5) of these welds which were unacceptable for continued service. All five (5) welds were overlay repaired and will be examined as Category E welds in future outages. Listed below are the Category F welds which were overlayed.

1B31-1RC-28B-8  
1B31-1RC-28A-6  
1B31-1RC-28A-4

1B31-1RC-28A-2  
1B31-1RC-28B-10

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

### Non-Category

One (1) weld which is non-category due to its configuration was examined using PT only. No rejectable indications were noted.

### Other Class 1 Examinations

Two-hundred-twenty-one (221) components were examined 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.

Seven (7) 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.

### Class II Examinations

Fifty (50) welds were examined using surface and volumetric NDE techniques as applicable. Two (2) of these welds were examined per NUREG 0619 (UT only), and the remaining forty-eight (48) were per ASME Section XI requirements. No reportable indications were detected during the examinations.

### Pressure Testing

Three (3) Class 2 hydrostatic tests, one (1) Class 2 functional test, fourteen (14) Class 3 hydrostatic tests, one (1) Class 3 inservice test, eleven (11) Class 3 pneumatic tests and a Class 1 System Leakage (Hydrostatic) 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)

Three hundred and three (303) component supports were VT examined during the outage. Fifty-five (55) produced unacceptable results. Forty-two (42) of these unacceptable supports were repaired and re-examined with acceptable results. The remaining thirteen (13) supports were accepted "as is" by GPC engineering evaluation.

IEB 79-14 modifications were performed during the outage. Some of the supports modified were scheduled for ISI examination. 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. A total of four (4) component supports were examined by Q.C. after IEB 79-14 modifications.

### 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 Head Vent Valve (1B21-F005), replacement of four check valves for commitments to INPO SOER 86-03 (1B31-F013B, 1B31-F017A, 1B31-F017B and 1C41-F006) and weld overlay of twelve (12) Reactor Recirculation System pipe welds. 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 declared acceptable.

### Summary of Indications

<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Steam Dryer Drain Channel #1	2.5" long linear indication	None required, acceptable per GE evaluation
Weld HC-1	Previously identified UT indication	None required, Code acceptable
Stabilizer Bracket SB2	Reamed PT indication	None required, Code acceptable
Weld 1B21-1MS-24A-19	.75" linear MT indication	Surface conditioning MWO 1-90-2334
RC-A Pump-Flange Surface	Damaged threads	None, acceptable per engineering evaluation
Weld 1B31-1RC-12AR-F-2	UT Planar indication	None, code acceptable
Weld 1B31-1RC-12BR-C-3	Previously identified UT indication	None required, code acceptable
Weld 1B31-1RC-12BR-C-5	Previously identified UT indication	None required code acceptable
Weld 1B31-1RC-12BR-E-5	Previously identified UT indication	None required code acceptable
Weld 1B31-1RC-22AM-1	Previously identified UT indication	None required, code acceptable
Weld 1B31-1RC-22AM-4	Previously identified UT indication	None required, code acceptable
Weld 1B31-1RC-22BM-1	Previously identified UT indication	None required, code acceptable
Weld 1B31-1RC-22BM-4	UT planar indication at overlay interface	Acceptable as is per SIAI.
Weld 1B31-1RC-28A-2	UT planar indications	Weld overlay MWO 1-90-2521
Weld overlay 1B31-1RC-28A-2	UT Laminar indications & planar indications	Acceptable as is per SIAI.
Weld 1B31-1RC-28A-4	UT planar indications	Weld overlay MWO 1-90-2321
Weld 1B31-1RC-28A-6	UT planar indications	Weld overlay MWO 1-90-2521



<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Weld overlay 1B31-1RC-28A-6	PT indications and UT planar indications	Surface prep for PT indications, UT code acceptable
Weld 1B31-1RC-28A-7	UT planar indications	Weld overlay MWO 1-90-2521
Weld 1B31-1RC-28A-8	Linear PT indication and UT planar indication	Surface prep for PT, weld overlay for UT MWO 1-90-2521
Weld overlay 1B31-1RC-28A-8	UT planar indication	None required, code acceptable
Weld 1B31-1RC-28A-12	Previously recorded UT indication	None required, code acceptable
Weld 1B31-1RC-28A-14	UT planar indication	Weld overlay MWO 1-90-2521
Weld overlay 1B31-1RC-28A-14	UT planar indications	None required, code acceptable
Weld overlay 1B31-1RC-28B-4	UT planar indication	Acceptable as is per SIAI
Weld 1B31-1RC-28B-8	UT planar indications	Weld overlay MWO 1-90-2521
Weld overlay 1B31-1RC-28B-8	UT planar indications	None required, code acceptable
Weld 1B31-1RC-28B-9	UT planar indications	Weld overlay MWO 1-90-2521
Weld overlay 1B31-1RC-28B-9	UT planar indications	Acceptable as is per SIAI
Weld 1B31-1RC-28B-10	UT planar indications	Weld overlay MWO 1-90-2521
Weld overlay 1B31-1RC-28B-10	UT planar indications	None required, code acceptable
Weld 1B31-1RC-28B-13	UT planar indication	Weld overlay MWO 1-90-2521
Weld overlay 1B31-1RC-28B-13	UT planar indications	None required, code acceptable
Weld 1B31-1RC-28B-14	UT planar indications	Weld overlay MWO 1-90-2521
Weld 1B31-1RC-28B-15	UT planar indications	Weld overlay MWO 1-90-2521

<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Weld 1E11-1RHR-24A-R-12	Non-geometric indications	Acceptable as is per SIAI.
Weld overlay 1E11-1RHR-24A-R-13	UT planar indication	Acceptable as is per SIAI.
Weld overlay 1E11-1RHR-24B-R-12	Linear PT indication & UT planar indications	PT acceptable per code, UT acceptable per SIAI.
Weld 1G31-1RWCUM-6-D-7-IR	UT subsurface planar flaw	None required, code acceptable
Weld 1E21-2CS-16B-TS-16	MT linear indication	Removed by surface prepping.
Weld 1E41-2HPCI-10-SS-9	MT linear indication	Removed by surface prepping.
Weld 1E51-2RCIC-10-TD-2	MT linear indication	Removed by surface prepping
Weld 1N11-2MSAR-10C-SSR-4	None	Weld cut out to facilitate repairs to valve
Weld 1N11-2MSA-24A-5PL-1 thru 8	MT linear indications	Removed by surface prepping MWO 1-90-3270
Water Box Cover 1T41-B002A	Stud failed during hydro	Installed new studs MWO 1-90-2664
Support 1B31-HA1	Improper spring can setting	Reset spring can MWO 1-90-3713
Support 1B31-HA7	Dents in spring cans	Acceptable as is
Support 1B31-HB1	Improper spring can setting	Reset spring can MWO 1-90-3396
Support 1B31-HB2	Improper spring can setting	Reset spring can MWO 1-90-3397
Support 1E51-RCSEH-18	Improper spring can setting	Reset spring can MWO 1-90-2498
Support 1E51-SS-42	Bent strut and loose bolts	Replaced strut and tightened bolts MWO 1-88-7706 *
Support 1E21-CSH-56	Frozen spherical bearings	Spherical bearings repaired MWO 1-90-2794 *



IdentificationIndicationCorrective Action

Support  
1E21-CSH-27

Improper spring  
can setting

Reset spring  
can  
MWO 1-90-2434

Support  
1E21-CSH-59

Loose nut

Tightened loose  
nut  
MWO 1-90-2500 \*

Support  
1E41-HPCIH-14

Improper spring  
can setting

Reset spring  
can  
MWO 1-90-2796

Support  
1E41-HPCIH-15

Improper thread  
engagement

Adjusted  
turnbuckle  
MWO 1-90-2951 \*

Support  
1E41-HPSEH-8

Loose nut

Tightened loose  
nut  
MWO 1-90-2726 \*

Support  
1E41-HPSEH-10

Improper spring  
can setting

Reset spring  
can  
MWO 1-90-2499

Support  
1E41-HPSEH-94

Loose nuts

Tightened loose  
nuts  
MWO 1-90-3396 \*

Support  
1E51-RCSEH-22

Frozen spherical  
bearings

Acceptable as is

Support  
1T48-CPH-39

Frozen spherical  
bearings

Acceptable as is

Support  
1E11-RHRH-224

Loose Nuts

Tightened loose  
nuts  
MWO 1-90-2400

Support  
1E11-RHRH-226

Loose locknut

Tightened locknut  
MWO 1-90-3405 \*

Support  
1E11-RHRH-399

Loose bolt on  
pipe clamp

Tightened loose  
bolt  
MWO 1-90-3434 \*

Support  
1E11-RHRH-400

Loose nuts

Tightened loose  
nuts  
MWO 1-90-3433

Support  
1N11-MSH-58

Improper spring  
can setting

Reset spring  
can  
MWO 1-90-2723

Support  
1N11-AC-1

Loose bolting

Tightened bolts  
MWO 1-90-3249 \*

Support  
1N11-MSH-1

Loose bolting

Tightened bolts  
MWO 1-90-2792 \*

IdentificationIndicationCorrective Action

Support  
1N11-MSH-7

Loose nut

Tightened nut  
MWO 1-90-2723

Support  
1N11-MSH-56

Improper spring  
can setting

Reset spring  
can  
MWO 1-90-2723

Support  
1N37-N11-TBH-26

Loose nuts

Tightened nuts  
MWO 1-90-2723

Support  
1N37-N11-TBH-34

Misaligned strut

Aligned strut  
MWO 1-90-2723

Support  
1N37-N11-TBH-30

Frozen spherical  
bearings

Lubricated  
spherical bearings  
MWO 1-90-2791

Support  
1E51-RCSE-H12

Wood jammed  
into support

Wood was temporary  
insulation support  
Acceptable as is

Support  
1E51-RCSE-H15

Improper spring  
can setting

Reset spring  
can  
MWO 1-90-2725 \*

Support  
1E51-RCSE-H25

Loose bolts

Tightened loose  
bolts  
MWOs 1-90-2118 and  
1-90-2050

Support  
1E51-RCSE-H706

Loose nuts

Tightened nuts  
MWO 1-90-2050 \*

Support  
1E51-RCIC-H18

Improper load  
setting

Reset load  
setting  
MWO 1-90-2795 \*

Support  
1E11-ISH-5

Corroded nuts  
on base plate

Replaced one nut,  
cleaned & painted  
others  
MWO 1-90-2108

Support  
1E11-ISH-9

Corroded  
turnbuckle

Replaced strut  
assembly  
MWO 1-90-2108

Support  
1E11-RHRH-106

Lock nut not  
fully engaged

Acceptable as is

Support  
1E11-RHRH-107

Loose pipe  
clamp

Acceptable as is

Support  
1E11-RHRH-109

Improper spring  
can setting

Reset spring  
can  
MWO 1-90-2400



<u>Identification</u>	<u>Indication</u>	<u>Corrective Action</u>
Support 1E11-RHRH-111	Misaligned clamp	Aligned clamp MWO 1-90-2952
Support 1E11-RHRH-112	Loose turnbuckle locknut	Tightened locknut MWO 1-90-2155
Support 1E11-RHRH-292	Loose jam nut	Tightened jam nut MWO 1-90-2400
Support 1E11-RHRH-298	Loose locknut	Tightened locknut MWO 1-90-2155
Support 1P41-ISH-27	Spherical bearings corroded	Cleaned and lubricated MWO 1-90-1984 *
Support 1P41-ISH-28	Corroded base plate	Acceptable as is MWO 1-90-1985 *
Support 1P41-ISH-75	Corroded base plate	Acceptable as is MWO 1-90-1985 *
Support 1P41-ISH-34	Erosion on support	Acceptable as is MWO 1-90-1985 *
Support 1P41-SWH-206	Improper spring can setting	Reset spring can MWO 1-90-1930 *
Support 1P41-CBWH-32	Spherical bearings corroded	Acceptable as is MWO 1-90-2007 *
Support 1P41-CBWH-33	Spherical bearings corroded	Acceptable as is MWO 1-90-2007 *
Support 1P41-CBWH-4	Cracked concrete	Acceptable as is MWO 1-90-2501 *
Support 1E11-ISH-4	Corroded nuts on base plate	Acceptable as is
Support 1E11-RHRH-362	Missing jam nut	Replaced jam nut MWO 1-90-2793 *
Support 1E41-HPCIH-19A	Frozen spherical bearings	Cleaned and lubricated MWO 1-90-2499
Support 1E11-RHRH-337	Improper load setting	Reset spring can MWO 1-90-2793
Support 1B21-MVVH-33	Nick on snubber piston	Acceptable as is

\* These MWO's did not require 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 1 SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>CORE SPRAY NOZZLES</u>							
-- IEB 80-13	A-1/04	N5A A LOOP CORE SPRAY INLET NOZZLE	VT-H-755/1	N/A	S90H1V386	NR1	N/A
-- IEB 80-13	A-1/04	N5B B LOOP CORE SPRAY INLET NOZZLE	VT-H-755/1	N/A	S90H1V386	NR1	N/A
<u>RINTSA WELDS</u>							
-- 0313D	-	N2F RINTSA WELD	UT-H-415/3	125-H	S90H1C088 S90H1U207	UT CAL SHEET R1 GEOMETRY	N/A
-- 0313D	-	N2G RINTSA WELD	UT-H-415/3	125-H	S90H1C089 S90H1U208	UT CAL SHEET R1 GEOMETRY	N/A
-- 0313D	-	N2H RINTSA WELD	UT-H-415/3	125-H	S90H1C090 S90H1U209	UT CAL SHEET R1 GEOMETRY	N/A
-- 0313D	-	N2J RINTSA WELD	UT-H-415/3	125-H	S90H1C091 S90H1U210	UT CAL SHEET R1 GEOMETRY	N/A
-- 0313D	-	N2K RINTSA WELD	UT-H-415/3	125-H	S90H1C092 S90H1U211	UT CAL SHEET R1 GEOMETRY	N/A



E.I. HATCH UNIT 1 SPRING 1990 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>							
B1.30 B-A	A-1/04	C-1 VESSEL TO FLANGE H3A(72) TO N4C(225) CLOCKWISE	UT-H-410/4	62-H	S90H1C237 S90H1U498 S90H1C236 S90H1U497 S90H1C235 S90H1U496	UT CAL SHEET NRI UT CAL SHEET NRI UT CAL SHEET NRI	ONE-SIDED DUE TO CONFIGURATION
B1.21 B-A	A-2/03	HC-1 CLOSURE HEAD DOLLAR PLATE WELD	UT-H-410/4	64-H	S90H1C224 S90H1U477 S90H1C228 S90H1U481 S90H1C226 S90H1U479 S90H1U615	UT CAL SHEET RI LAMINAR UT CAL SHEET NRI UT CAL SHEET RI PLANAR WELD PROFILE	CODE ALLOWABLE UT INDICATIONS. LIMITED EXAM DUE TO NOZZLE OBSTRUCTION.
B1.40 B-A	A-2/03	HC-2 CLOSURE HEAD-TO-FLG CENTERLINE STUD 17 TO STUD 34 (CW)	MT-H-500/4 UT-H-410/4	64-H	S90H1M050 S90H1C227 S90H1U480 S90H1C225 S90H2U478 S90H1C229 S90H1U482	NRI UT CAL SHEET NRI UT CAL SHEET NRI UT CAL SHEET NRI	LIMITED EXAM DUE TO FLANGE CONFIGURATION AND FIT-UP BEVEL.
B3.90 B-D	A-1/04	N1B B LOOP RECIRCULATION OUTLET SHELL TO NOZ	UT-H-410/4	61-H	S90H1C069 S90H1U162 S90H1C071 S90H1U164 S90H1C070 S90H1U163	UT CAL SHEET NRI UT CAL SHEET NRI UT CAL SHEET NRI	LIMITED EXAM DUE TO NOZZLE CONFIGURATION.



E.T. HATCH UNIT 1 SPRING 1990 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	A-1/04	N1B B LOOP RECIRCULATION OUTLET NOZZLE TR	UT-H-420/3	61-H	S90H1C012 S90H1U036	UT CAL SHEET NRI	LIMITED EXAM DUE TO NOZZLE CONFIGURATION.
B3.90 B-D	A-1/04	N2G A LOOP RECIRCULATION INLET NOZZ TO SHELL	UT-H-410/4	61-H	S90H1C029 S90H1U074 S90H1C026 S90H1U070 S90H1C023 S90H1U066	UT CAL SHEET NRI UT CAL SHEET NRI UT CAL SHEET NRI	LIMITED EXAM DUE TO NOZZLE CONFIGURATION.
B3.100 B-D	A-1/04	N2G A LOOP RECIRCULATION INLET NOZZLE AT 240 DEGREES	UT-H-480/3	61-H	S90H1C011 S90H1U035	UT CAL SHEET NRI	LIMITED EXAM DUE TO NOZZLE CONFIGURATION.
B3.90 B-D	A-1/04	N2H A LOOP RECIRCULATION INLET NOZZ TO SHELL	UT-H-410/4	61-H	S90H1C030 S90H1U075 S90H1C027 S90H1U071 S90H1C024 S90H1U067	UT CAL SHEET NRI UT CAL SHEET NRI UT CAL SHEET NRI	LIMITED EXAM DUE TO NOZZLE CONFIGURATION.
B3.100 B-D	A-1/04	N2H A LOOP RECIRCULATION INLET NOZZLE AT 270 DEGREES	UT-H-480/3	61-H	S90H1C010 S90H1U034	UT CAL SHEET NRI	LIMITED EXAM DUE TO NOZZLE CONFIGURATION.

E.1. HATCH UNIT 1 SPRING 1990 REFUELLING 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	A-1/04	N2X A LOOP RECIRCULATION INLET NOZZ TO SHELL	UT-H-410/4	61-H	S90H1C025 S90H1U0660 S90H1C028 S90H1U072 S90H1C031 S90H1U076	UT CAL SHEET MRI UT CAL SHEET MRI UT CAL SHEET MRI	LIMITED EXAM DUE TO NOZZLE CONFIGURATION.
B3.100 B-D	A-1/04	N2X A LOOP RECIRCULATION INLET NOZZLE IR	UT-H-480/3	61-H	S90H1C007 S90H1U030	UT CAL SHEET MRI	LIMITED EXAM DUE TO NOZZLE CONFIGURATION.
B6.40 B-G-1	A-2A/02	LIG-14 THRU 24 FLANGE LIGAMENT	UT-H-419/0	23-H	S90H1C310 S90H1U0672	UT CAL SHEET MRI	N/A
B6.40 B-G-1	A-2A/02	LIG-43 THRU 46 FLANGE LIGAMENT	UT-H-419/0	23-H	S90H1C312 S90H1U0674	UT CAL SHEET MRI	N/A
B6.10 B-G-1	A-2A/02	NUT-13 THRU 24 CLOSURE HEAD NUT	MT-H-501/4	N/A	S90H1U030	MRI	N/A
B6.10 B-G-1	A-2A/02	NUT-43 CLOSURE HEAD NUT	MT-H-501/4	N/A	S90H1U051	MRI	N/A
B6.10 B-G-1	A-2A/02	NUT-44 CLOSURE HEAD NUT	MT-H-501/4	N/A	S90H1U052	MRI	N/A

E.T. MATCH UNIT 1 SPRING 1990 REFUELLING OUTAGE  
CLASS 1 COMPONENTS

NAME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
RPV EXAMINATIONS							
B6.10 B-G-1	A-2A/02	NUT-15 CLOSURE HEAD NUT	MT-H-501/4	N/A	S90H1M053	NR1	N/A
B6.10 B-G-1	A-2A/02	NUT-16 CLOSURE HEAD NUT	MT-H-501/4	N/A	S90H1M054	NR1	N/A
B6.10 B-G-1	A-2A/02	NUT-17 CLOSURE HEAD NUT	MT-H-501/4	N/A	S90H1M055	NR1	N/A
B6.30 B-G-1	A-2A/02	STUD-13 THRU 24 CLOSURE HEAD STUD	UT-H-421/3	23-H	S90H1C309 S90H1U671	NR1	UT CAL SHEET N/A
B6.30 B-G-1	A-2A/02	STUD-43 THRU 47 CLOSURE HEAD STUD	UT-H-421/3	23-H	S90H1C311 S90H1U673	NR1	UT CAL SHEET N/A
B6.50 B-G-1	A-2A/02	WASHER-13 THRU 24, 43 THRU 47 CLOSURE HEAD WASHER	VT-H-710/2	N/A	S90H1V110	SAT	N/A
B8.10 B-H	A-36/01	SB2 STABILIZER BRACKET NO. 2	PT-H-500/2	N/A	S90H1P060	R1 ROUNDED	CODE ALLOWABLE ROUNDED PT INDICATIONS.
B6.50 B-G-1	A-3/02	LOCATION-1 THRU 20 THICKNESS MEASUREMENTS	UT-H-460/2	30-H	S90H1U159	NR1 WELD PROFILE	N/A



E.T. HATCH UNIT 1 SPRING 1990 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>							
B15.10 B-P	-	CLASS 1 PRESSURE RETAINING BOUNDARY LEAKAGE TEST	VT-H-720/2	N/A	S90H1V389 S90H1V390	SAT SEE SITE FOR EXAM RESULTS	
B13.10 B-N-1	-	RPV EXAMINATION OF VESSEL INTERIOR	VT-H-755/1	N/A	S90H1V386	SAT	
<u>FEEDWATER SYSTEM</u>							
B9.11 B-J	A-10/04	1B21-1FW-12BA-6 ELBOW TO PIPE	MT-H-500/4 UT-H-400/9	14B-H	S90H1M034 S90H1C184 S90H1U399 S90H1U401	NI UT CAL SHEET NRI WELD PROFILE	N/A
B9.11 B-J	A-11/04	1B21-1FW-12AB-7 PIPE TO ELBOW	MT-H-500/4 UT-H-400/9	14B-H	S90H1M059 S90H1C185 S90H1U402 S90H1U403	NRI UT CAL SHEET NRI WELD PROFILE	N/A
B9.11 B-J	A-12/04	1B21-1FW-12BC-7 PIPE TO ELBOW	MT-H-500/4 UT-H-400/9	14B-H	S90H1M060 S90H1C186 S90H1U404 S90H1U405	NI UT CAL SHEET NRI WELD PROFILE	N/A
B9.11 B-J	A-13/05	1B21-1FW-12BD-5 PIPE TO ELBOW	MT-H-500/4 UT-H-400/9	14B-H	S90H1M035 S90H1C183 S90H1U398 S90H1U400	NI UT CAL SHEET NRI WELD PROFILE	N/A

E.T. HATCH UNIT 1 SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>FEEDWATER SYSTEM</u>							
B10.10 B-K-1	A-13/05	1B21-1FW-12BD-8HL-1 THRU 4 DEVICE B21-FDH-7	MT-H-500/4	N/A	S90H1M020	NI	N/A
<u>MAIN STEAM SYSTEM</u>							
B9.11 B-J	A-4/04	1B21-1MS-24A-10 ELBOW TO PIPE	MT-H-500/4 UT-H-400/9	147-H	S90H1M076 S90H1C241 S90H1U517 S90H1U520	NR1 UT CAL SHEET RI GEOMETRY WELD PROFILE	LIMITED EXAMINATION DUE TO INSTRUMENTATION LINES.
B9.12 B-J	A-4/04	1B21-1MS-24A-10LU-1 LONGITUDINAL WELD UPSTREAM ON INSIDE OF ELBOW	MT-H-500/4 UT-H-400/9	147-H	S90H1M077 S90H1C242 S90H1U518 S90H1U521	NR1 UT CAL SHEET NR1 WELD PROFILE	LIMITED EXAMINATION DUE TO INSTRUMENTATION LINES.
B9.12 B-J	A-4/04	1B21-1MS-24A-10LU-0 LONGITUDINAL WELD UPSTREAM ON OUTSIDE OF ELBOW	MT-H-500/4 UT-H-400/9	147-H	S90H1M083 S90H1C243 S90H1U519	NR1 UT CAL SHEET NR1	LIMITED EXAMINATION DUE TO INSTRUMENTATION LINES.
B9.11 B-J	A-4A/00	1B21-1MS-24A-19 PIPE TO VALVE	MT-H-500/4 UT-H-400/9	147-H	S90H1M056 S90H1M017 S90H1M081 S90H1C247 S90H1U526 S90H1C248 S90H1U527 S90H1U528	RI LINEAR RI LINEAR NI UT CAL SHEET RI GEOMETRY UT CAL SHEET NR1 WELD PROFILE	0.75" LINEAR MT INDICATION REMOVED AFTER GRINDING. SEE INF # 190H1015. ONE-SIDED EXAM DUE TO VALVE GEOMETRY.

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E. I. HATCH UNIT 1 SPRING 1990 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>							
B10.10 B-K-1	A-5/05	1B21-1MS-24B-5HL-1 THRU 4 DEVICE B21-HB1	MT-H-500/4	N/A	S90H1M064	NR1	N/A
B10.10 B-K-1	A-5/05	1B21-1MS-24B-8PS-A-1 AND 2 DEVICE B21-HB2	MT-H-500/4	N/A	S90H1M009	NI	N/A
B10.10 B-K-1	A-5/05	1B21-1MS-24B-8PS-B-1 AND 2 DEVICE B21-HB2	MT-H-500/4	N/A	S90H1M010	NI	N/A
B10.10 B-K-1	A-5/05	1B21-1MS-24B-8PS-C-1 AND 2 DEVICE B21-HB3	MT-H-500/4	N/A	S90H1M011	NI	N/A
B9.11 B-J	A-5A/00	1B21-1MS-24B-14 ELBOW TO PIPE	MT-H-500/4 UT-H-400/9	147-H	S90H1M033 S90H1C307 S90H1U660 S90H1U663	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A
B9.12 B-J	A-5A/00	1B21-1MS-24B-14LU-1 LONGITUDINAL WELD UPSTREAM ON INSIDE OF ELBOW	MT-H-500/4 UT-H-400/9	147-H	S90H1M031 S90H1C199 S90H1U627 S90H1U629	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A
B9.12 B-J	A-5A/00	1B21-1MS-24B-14LU-0 LONGITUDINAL WELD UPSTREAM ON OUTSIDE OF ELBOW	MT-H-500/4 UT-H-400/9	147-H	S90H1M032 S90H1C308 S90H1U661 S90H1U662	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A



E.1. HATCH UNIT 1 SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>MAIN STEAM SYSTEM</u>							
B9.11 B-J	A-6/05	1B21-1MS-8C-CSR-2 PIPE TO FLANGE	MT-H-500/4 UT-H-400/9	S-H	S90H1M013 S90H1C093 S90H1U212 S90H1C094 S90H1U213 S90H1U215	NI  UT CAL SHEET NR1 UT CAL SHEET NR1 WELD PROFILE	LIMITED EXAM DUE TO CONFIGURATION.
B10.10 B-K-1	A-6/05	1B21-1MS-24C-5HL-1 THRU 4 DEVICE B21-HC1	MT-H-500/4	N/A	S90H1M061	NI	N/A
B10.10 B-K-1	A-6/05	1B21-1MS-24C-8PS-B-1 AND 2 DEVICE B21-HC2	MT-H-500/4	N/A	S90H1M012	NI	N/A
B9.11 B-J	A-6A/00	1B21-1MS-24C-16 VALVE TO PIPE	MT-H-500/4 UT-H-400/9	147-H	S90H1M095 S90H1C286 S90H1U619 S90H1C287 S90H1U620 S90H1U621	NR1 UT CAL SHEET NR1 UT CAL SHEET RI GEOMETRY WELD PROFILE	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.
<u>REACTOR COOLANT SYSTEM</u>							
B9.11 B-J 0313C	A-14B/00	1B31-1RC-4A-1A BC TO CAP	UT-H-400/9	80-H	S90H1C294 S90H1U631 S90H1C296 S90H1U633 S90H1U634	UT CAL SHEET NR1 UT CAL SHEET NR1 WELD PROFILE	ONE-SIDED EXAM DUE TO BRANCH- CONNECTION CONFIGURATION.

E.I. HATCH UNIT 1 SPRING 1990 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 0313C	A-14B/00	1B31-1RC-4A-10A BC TO CAP	UT-H-400/9	80-H	S90H1C293 S90H1U630 S90H1C295 S90H1U632 S90H1U635	UT CAL SHEET NR1 UT CAL SHEET NR1 WELD PROFILE	ONE-SIDED EXAM DUE TO BRANCH- CONNECTION CONFIGURATION.
B5.10 B-F 0313D	A-39/00	1B31-1RC-4JP-A-1 HBA NOZZLE TO SAFE-END	PT-H-600/2 UT-H-409/6	120-H 121-H	S90H1P094 S90H1C178 S90H1U392 S90H1C180 S90H1U394 S90H1C168 S90H1U354	NR1 UT CAL SHEET NR1 UT CAL SHEET NR1 UT CAL SHEET NR1	CODE CASE N-461
B9.11 B-J 0313D	A-39/00	1B31-1RC-4JP-A-2 SAFE-END TO PENETRATION SEAL	PT-H-600/2 UT-H-400/9	80-H	S90H1P093 S90H1C170 S90H1U356	NR1 UT CAL SHEET NR1	CODE CASE N-461
B5.10 B-F 0313D	A-39/00	1B31-1RC-4JP-B-1 NBB NOZZLE TO SAFE-END	PT-H-600/2 UT-H-409/6	120-H 121-H	S90H1P096 S90H1C179 S90H1U393 S90H1C181 S90H1U395 S90H1C169 S90H1U355	NR1 UT CAL SHEET NR1 UT CAL SHEET NR1 UT CAL SHEET NR1	CODE CASE N-461
B9.11 B-J 0313D	A-39/00	1B31-1RC-4JP-B-2 SAFE-END TO PENETRATION SEAL	PT-H-600/2 UT-H-400/9	80-H	S90H1P097 S90H1C171 S90H1U357	NR1 UT CAL SHEET NR1	CODE CASE N-461

E.I. HATCH UNIT 1 SPRING 1990 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 0313C	A-18/02	1B31-1RC-12AR-F-1 B-C TO PIPE	GE-UT-200/0	17-H	R-018	R1 GEOMETRY	ONE-SIDED EXAM DUE TO B-C CONFIGURATION.
B9.11 B-J 0313E	A-18/02	1B31-1RC-12AR-F-2 PIPE TO ELBOW OVERLAY	PT-H-600/2 GE-UT-201/0	134-H	R-U02 S90H1U203 S90H1U204 S90H1U205 S90H1U206 S90H1U473	NR1 SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET EVAL SHEET	
B9.11 B-J 0313E	A-18/02	1B31-1RC-12AR-F-2 PIPE TO ELBOW	PT-H-600/2 UT-H-408/2 GE-UT-201/0	134-H	S90H1P005 S90H1C081 S90H1U189 S90H1U416 S90H1U177 S90H1U178 S90H1U179 S90H1U180 S90H1U181 S90H1U197 S90H1U198 S90H1U199 S90H1U200 S90H1U201 S90H1U202	NI UT CAL SHEET R1 PLANAR IND. EVAL SHEET WELD PROFILE SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET	UT RECORDED A PLANAR INDICATION. SEE INF # 190H1011
B9.11 B-J 0313E	A-18/02	1B31-1RC-12AR-F-3 ELBOW TO PIPE	PT-H-600/2 UT-H-408/2	134-H	S90H1P004 S90H1C084 S90H1U192	NI UT CAL SHEET NR1	N/A



E.1. HATCH UNIT 1 SPRING 1990 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							
B9.11 B-J 0313E	A-18/02	1831-1RC-12AR-F-4 PIPE TO SAFE-END	PT-H-600/2 UT-H-408/2	134-H	S90H1P003 S90H1C077 S90H1U182 S90H1U183	NI UT CAL SHEET NRI WELD PROFILE	N/A
B9.11 B-J 0313C	A-18/02	1831-1RC-12AR-F-5 SAFE-END TO NOZZLE	PT-H-600/2 UT-H-409/6	85-H 31-H	S90H1P065 S90H1C124 S90H1U278 S90H1U279 S90H1C143 S90H1U308 S90H1C173 S90H1U359	NI UT CAL SHEET NRI WELD PROFILE UT CAL SHEET RI GEOMETRY UT CAL SHEET RI GEOMETRY	N/A
B9.11 B-J 0313C	A-18/02	1831-1RC-12AR-G-2 PIPE TO ELBOW	GE-UT-200/0	17-H	R-008	RI GEOMETRY	N/A
B9.11 B-J 0313E	A-18/02	1831-1RC-12AR-G-3 ELBOW TO PIPE	PT-H-600/2 UT-H-408/2	134-H	S90H1P064 S90H1C159 S90H1U336 S90H1U337	NI UT CAL SHEET NRI WELD PROFILE	N/A
B9.11 B-J 0313F	A-18/02	1831-1RC-12AR-G-4 PIPE TO SAFE-END	PT-H-600/2 UT-H-400/9	17-H	S90H1P030 S90H1C057 S90H1U115 S90H1U117 S90H1C055 S90H1U116	NRI UT CAL SHEET NRI WELD PROFILE UT CAL SHEET RI GEOMETRY	N/A

E.L. HATCH UNIT 1 SPRING 1990 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							
B9.11 B-J 0313E	A-18/02	1B31-1RC-12AR-H-2 PIPE TO ELBOW	PT-H-600/2 UT-H-408/2	134-H	S90H1P006 S90H1C109 S90H1U253 S90H1U254	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A
B9.11 B-J 0313E	A-18/02	1B31-1RC-12AR-H-3 ELBOW TO PIPE	PT-H-600/2 UT-H-408/2	134-H	S90H1P007 S90H1C108 S90H1U250 S90H1U251	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A
B9.11 B-J 0313E	A-18/02	1B31-1RC-12AR-H-4 PIPE TO SAFE-END	PT-H-600/2 UT-H-408/2	134-H	S90H1P008 S90H1C107 S90H1U247 S90H1U248	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A
B9.11 B-J 0313C	A-18/02	1B31-1RC-12AR-J-2 PIPE TO ELBOW	GE-UT-200/0	17-H	R-012	RI GEOMETRY	N/A
B9.11 B-J 0313E	A-18/02	1B31-1RC-12AR-J-3 ELBOW TO PIPE	PT-H-600/2 UT-H-408/2	134-H	S90H1P063 S90H1C160 S90H1U338 S90H1U339	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A
B9.11 B-J 0313C	A-18/02	1B31-1RD-12AR-J-4 PIPE TO SAFE-END	GE-UT-200/0	17-H	R-009	RI GEOMETRY	ONE SIDED EXAM DUE TO SAFE-END CONFIGURATION.

E.I. HATCH UNIT 1 SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/ARFA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
REACTOR COOLANT SYSTEM							
B9.11 B-J 0313E	A-18/02	1831-1RC-12AR-K-2 PIPE TO ELBOW	PT-H-600/2 UT-H-408/2	134-H	S90H1P070 S90H1C157 S90H1U340 S90H1U341	NI UT CAL SHEET NR1 WELD PROFILE	N/A
B9.11 B-J 0313E	A-18/02	1831-1RC-12AR-K-3 ELBOW TO PIPE	PT-H-600/2 UT-H-408/2	134-H	S90H1P071 S90H1C158 S90H1U342 S90H1U343	NI UT CAL SHEET NR1 WELD PROFILE	N/A
B9.11 B-J 0313C	A-18/02	1831-1RC-12AR-K-4 PIPE TO SAFE-END	GE-UT-200/0	17-H	R-010	R1 GEOMETRY	ONE SIDED EXAM DUE TO SAFE-END CONFIGURATION.
B9.11 B-J 0313C	A-18/02	1831-1RC-12AR-K-5 SAFE-END TO NOZZLE	PT-H-600/2 UT-H-409/6	85-H 31-H	S90H1P072 S90H1C142 S90H1U307 S90H1U280 S90H1C172 S90H1U358 S90H1C141 S90H1U277	NI UT CAL SHEET R1 GEOMETRY WELD PROFILE UT CAL SHEET R1 GEOMETRY UT CAL SHEET NR1	N/A
B9.11 B-J 0313C	A-19/02	1831-1RC-12BR-A-1 B-C TO PIPE	GE-UT-200/0	17-H	R-017	R1 GEOMETRY	ONE-SIDED EXAM DUE TO SWEEP-O-LET CONFIGURATION

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E-1. HATCH UNIT 1 SPRING 1990 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							
B9.11 B-J 0313C	A-19/02	1B31-1RC-12BR-A-2 PIPE TO ELBOW	GE-UT-200/0	17-H	R-015	RI GEOMETRY	N/A
B9.11 B-J 0313C	A-19/02	1B31-1RC-12BR-A-3 ELBOW TO PIPE	GE-UT-200/0	17-H	R-007	NR1	N/A
B9.11 B-J 0313F	A-19/02	1B31-1RC-12BR-A-4 PIPE TO SAFE-END	PT-H-600/2 UT-H-400/9	17-H	S90H1P034 S90H1C056 S90H1U113 S90H1C054 S90H1U114	NR1 UT CAL SHEET NR1 UT CAL SHEET RI GEOMETRY	N/A
B5.10 B-F 0313C	A-19/02	1B31-1RC-12BR-A-5 SAFE-END TO NOZZLE	PT-H-600/2 UT-H-409/6	85-H 31-H	S90H1P033 S90H1C097 S90H1U230 S90H1C099 S90H1U231 S90H1C101 S90H1U233 S90H1U228 S90H1C098 S90H1U229 S90H1C100 S90H1U232	NR1 UT CAL SHEET NR1 UT CAL SHEET RI GEOMETRY UT CAL SHEET RI GEOMETRY WELD PROFILE UT CAL SHEET RI GEOMETRY UT CAL SHEET RI GEOMETRY	N/A

E.1. HATCH UNIT 1 SPRING 1990 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 0313C	A-19/02	1B31-1RC-12BR-B-2 PIPE TO ELBOW	PT-H-600/2 UT-H-400/9	17-H	S90H1P046 S90H1C080 S90H1U187 S90H1U188	NR1 UT CAL SHEET R1 GEOMETRY WELD PROFILE	N/A
B9.11 B-J 0313E	A-19/02	1B31-1RC-12BR-B-3 ELBOW TO PIPE	PT-H-600/2 UT-H-408/2	134-H	S90H1P018 S90H1C085 S90H1U196	NR1 UT CAL SHEET NR1	N/A
B9.11 B-J 0313C	A-19/02	1B31-1RC-12BR-B-4 PIPE TO SAFE-END	PT-H-600/2 UT-H-400/9	17-H	S90H1P017 S90H1C036 S90H1U082 S90H1C038 S90H1U083 S90H1U286	NR1 UT CAL SHEET NR1 UT CAL SHEET R1 GEOMETRY WELD PROFILE	LIMITED EXAM DUE TO SAFE-END CONFIGURATION.
B5.10 B-F 0313C	A-19/02	1B31-1RC-12BR-B-5 SAFE-END TO NOZZLE	PT-H-600/2 UT-H-409/6	85-H 31-H	S90H1P016 S90H1C078 S90H1U184 S90H1C076 S90H1U174 S90H1U175 S90H1C079 S90H1U185	NR1 UT CAL SHEET NR1 CAL SHEET NR1 WELD PROFILE UT CAL SHEET NR1	N/A
B9.11 B-J 0313E	A-19/02	1B31-1RC-12BR-C-2 PIPE TO ELBOW	PT-H-600/2 UT-H-408/2	134-H	S90H1P081 S90H1C128 S90H1U285	NR1 UT CAL SHEET NR1	N/A

E.I. HATCH UNIT 1 SPRING 1990 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							
B9.11 B-J 0313E	A-19/02	1B31-1RC-12BR-C-3 ELBOW TO PIPE	PT-H-600/2 UT-H-408/2	134-H	S90H1P082 S90H1C126 S90H1U283	NR1 UT CAL SHEET R1 PLANAR IND.	PREVIOUSLY RECORDED INDICATION
B9.11 B-J 0313E	A-19/02	1B31-1RC-12BR-C-4 PIPE TO SAFE-END	PT-H-600/2 UT-H-408/2	134-H	S90H1P083 S90H1C127 S90H1U284	NR1 UT CAL SHEET NR1	N/A
B5.10 B-F 0313E	A-19/02	1B31-1RC-12BR-C-5 SAFE-END TO NOZZLE	PT-H-600/2 UT-H-409/6	144-H 31-H	S90H1P001 S90H1C001 S90H1U096 S90H1C002 S90H1U021 S90H1U020 S90H1C003 S90H1U025 S90H1C008 S90H1U032	NI UT CAL SHEET NR1 UT CAL SHEET R1 PLANAR WELD PROFILE UT CAL SHEET NR1 UT CAL SHEET NR1	PREVIOUSLY RECORDED INDICATION
B9.11 B-J 0313E	A-19/02	1B31-1RC-12BR-D-2 PIPE TO ELBOW	PT-H-600/2 UT-H-408/2	134-H	S90H1P027 S90H1C072 S90H1U167 S90H1U169	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A
B9.11 B-J 0313E	A-19/02	1B31-1RC-12BR-D-3 ELBOW TO PIPE	PT-H-600/2 UT-H-408/2	134-H	S90H1P028 S90H1C073 S90H1U168 S90H1U170	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A



E.L. HATCH UNIT 1 SPRING 1990 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							
B9.11 B-J 0313C	A-19/02	1B31-1RC-12BR-D-4 PIPE TO SAFE-END	PT-H-600/2 UT-H-400/9	17-H	S90H1P029 S90H1C095 S90H1U225 S90H1U226 S90H1C096 S90H1U227	NR1 UT CAL SHEET NR1 WELD PROFILE UT CAL SHEET RI GEOMETRY	LIMITED EXAM DUE TO SAFE-END CONFIGURATION.
B9.11 B-J 0313E	A-19/02	1B31-1RC-12BR-E-2 PIPE TO ELBOW	PT-H-600/2 UT-H-408/2	134-H	S90H1P023 S90H1C086 S90H1U194	NR1 UT CAL SHEET NR1	N/A
B9.11 B-J 0313E	A-19/02	1B31-1RC-12BR-E-3 ELBOW TO PIPE	PT-H-600/2 UT-H-408/2	134-H	S90H1P024 S90H1C087 S90H1U195	NR1 UT CAL SHEET NR1	N/A
B9.11 B-J 0313F	A-19/02	1B31-1RC-12BR-E-4 PIPE TO SAFE-END	PT-H-600/2 UT-H-400/9	17-H	S90H1P025 S90H1C035 S90H1U081 S90H1C037 S90H1U084 S90H1U287	NR1 UT CAL SHEET NR1 UT CAL SHEET NR1 WELD PROFILE	N/A

E.I. HATCH UNIT 1 SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION III	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
REACTOR COOLANT SYSTEM							
B5.10 B-F 0313F	A-19/02	1831-1RC-12BR-E-5 SAFE-END TO NOZZLE	PT-H-600/2 UT-H-400/6	144-H 31-H	S90H1P002 S90H1C009 S90H1U033 S90H1C004 S90H1U024 S90H1C006 S90H1U023 S90H1C005 S90H1U039 S90H1U026 S90H1U022	NR1 UT CAL SHEET NR1 UT CAL SHEET NR1 UT CAL SHEET RI PLANAR IND. UT CAL SHEET RI PLANAR IND. EVAL SHEET WELD PROFILE	PREVIOUSLY RECORDED INDICATION
B9.11 B-J 0313E	A-16/02	1831-1RC-22AM-1 CAP TO PIPE	PT-H-600/2 UT-H-400/2	134-H	S90H1P061 S90H1C106 S90H1U024	NR1 UT CAL SHEET RI PLANAR IND.	PREVIOUSLY RECORDED UT INDICATION.
B9.31 B-J 0313C	A-16/02	1831-1RC-22AM-18C-1 PIPE TO B-C	UT-H-400/9	47-H	S90H1C291 S90H1U068	UT CAL SHEET NR1	N/A
B9.31 B-J 0313C	A-16/02	1831-1RC-22AM-18C-2 PIPE TO B-C	UT-H-400/9	47-H	S90H1C290 S90H1U067	UT CAL SHEET NR1	N/A
B9.11 B-J 0313C	A-16/02	1831-1RC-22AM-2 PIPE TO CROSS	UT-H-400/8 GE-UT-200/0	47-H	R-020 S90H1C278 S90H1U0611 S90H1C280 S90H1U0597	RI GEOMETRY UT CAL SHEET RI GEOMETRY UT CAL SHEET NR1	ONE-SIDED EXAM DUE TO CROSS CONFIGURATION.

F 1. HATCH UNIT 1 SPRING 1990 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							
B9.11 B-J 0313C	A-16/02	1831-1RC-22AM-3 CROSS TO PIPE	UT-H-400/8 GE-UT-200/0	47-H	R-021 S90H1C279 S90H1U610 S90H1C281 S90H1U598	RI GEOMETRY UT CAL SHEET NPI UT CAL SHEET NPI	OND-SIDED EXAM DUE TO CROSS CONFIGURATION.
B9.31 B-J 0313C	A-16/02	1831-1RC-22AM-3BC-1 PIPE TO B-C	UT-H-400/9	47-H	S90H1C292 S90H1U629 S90H1U647	UT CAL SHEET RI GEOMETRY WELD PROFILE	N/A
B9.31 B-J 0313C	A-16/02	1831-1RC-22AM-3BC-2 PIPE TO B-C	UT-H-400/9	47-H	S90H1C289 S90H1U625 S90H1U646	UT CAL SHEET RI GEOMETRY WELD PROFILE	N/A
B9.11 B-J 0313E	A-16/02	1831-1RC-22AM-4 PIPE TO CAP	PT-H-600/2 UT-H-408/2	134-H	S90H1P075 S90H1C111 S90H1U259	NPI UT CAL SHEET RI PLANAR IND.	PREVIOUSLY RECORDED UT INDICATIONS.
B9.11 B-J 0313E	A-17/02	1831-1RC-228M-1 CAP TO PIPE	PT-H-600/2 UT-H-408/2	134-H	S90H1P073 S90H1C112 S90H1U260 S90H1U557	NPI UT CAL SHEET RI PLANAR IND. EVAL SHEET	PREVIOUSLY RECORDED UT INDICATIONS.



E.I. HATCH UNIT 1 SPRING 1990 REFUELLING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/ACCA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
REACTOR COOLANT SYSTEM							
B9.11	A-17/02	1B31-1RC-22RM-4	PT-H-600/2	134-H	S90H1P047	NR1	UT RECORDED PLANAR INDICATIONS IN THE OVERLAY. SEE INF # 190H1013.
B-J		PIPE TO CAP	UT-H-408/2		S90H1C104	RI	
0313E					S90H1U238	UT CAL SHEET	
					S90H1U246	PLANAR IND.	
					S90H1U216	EVAL SHEET	
					S90H1U217	SIZING SHEET	
					S90H1U218	SIZING SHEET	
					S90H1U219	SIZING SHEET	
					S90H1U220	SIZING SHEET	
					S90H1U221	SIZING SHEET	
					S90H1U222	SIZING SHEET	
					S90H1U240	WELD PROFILE	
CODE CASE N-461.							
B5.20	A-14/04	1B31-1RC-28A-1	PT-H-600/2	84-H	S90H1P009	NR1	UT RECORDED PLANAR INDICATIONS IN THE OVERLAY. SEE INF # 190H1013.
B-F		NOZZLE TO SAFE-END	UT-H-409/6	29-H	S90H1C041	RI	
0313C					S90H1U089	UT CAL SHEET	
					S90H1C042	UT CAL SHEET	
					S90H1U090	UT CAL SHEET	
					S90H1C043	UT CAL SHEET	
					S90H1U091	UT CAL SHEET	
					S90H1C044	UT CAL SHEET	
					S90H1U092	UT CAL SHEET	
					S90H1C045	UT CAL SHEET	
					S90H1U093	UT CAL SHEET	
					S90H1C046	UT CAL SHEET	
					S90H1U094	RI GEOMETRY	

E.1. HATCH UNIT 1 SPRING 1990 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							
B9.11 B-J 0313F	A-14/04	1B31-1RC-28A-2 SAFE-END TO PIPE	PT-H-600/2 UT-H-400/9	12B-H	S90H1P010 S90H1C013 S90H1U037 S90H1U104 S90H1U049 S90H1U087 S90H1U088 S90H1U048	NR1 UT CAL SHEET R1 PLANAR IND. EVAL SHEET SIZING SHEET SIZING SHEET SIZING SHEET WELD PROFILE	PLANAR INDICATIONS WERE RECORDED BY UT. SEE INF # 190H1004. CODE CASE N-461.
B9.11 B-J 0313E	A-14/04	1B31-1RC-28A-2 SAFE-END TO PIPE OVERLAY	PT-H-600/2 UT-H-408/2 GE-UT-201/0	134-H	S90H1P168 R-023 S90H1C314 S90H1U713 S90H1C316 S90H1U715 S90H1C318 S90H1U717 S90H1C313 S90H1U682 S90H1U485 S90H1U616 S90H1U677	NR1 R1 LAMINAR, PLANAR UT CAL SHEET NR1 UT CAL SHEET NR1 UT CAL SHEET NR1 UT CAL SHEET R1 LAMINAR IND. UT THICKNESS UT THICKNESS UT THICKNESS	THREE LAMINAR REFLECTORS & SEVERAL PLANAR INDICATIONS WERE RECORDED BY UT. SEE INF # 190H1041.
B9.11 B-J 0313C	A-14/04	1B31-1RC-28A-3 PIPE TO ELBOW	PT-H-600/2 UT-H-400/9	12B-H	S90H1P015 S90H1C014 S90H1U040	NR1 UT CAL SHEET NR1	CODE CASE N-461.
B9.12 B-J 0313A	A-14/04	1B31-1RC-28A-3LD-1 LONGITUDINAL WELD DOWNSTREAM ON INSIDE OF ELBOW	PT-H-600/2 UT-H-400/9	12B-H	S90H1P011 S90H1C015 S90H1U041	NR1 UT CAL SHEET NR1	CODE CASE N-461.

E.I. HATCH UNIT 1 SPRING 1990 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							
B9.12 B-J 0313A	A-14/04	1B31-1RC-28A-3LD-0 LONGITUDINAL WELD DOWNSTREAM ON OUTSIDE OF ELBOW	PT-H-600/2 UT-H-400/9	12B-H	S90H1P012 S90H1C016 S90H1U042	NRI UT CAL SHEET NRI	CODE CASE N-461.
B9.12 B-J 0313A	A-14/04	1B31-1RC-28A-3LU LONGITUDINAL SEAM WELD EXTENDING UPSTREAM	PT-H-600/2 UT-H-400/9	12B-H	S90H1P013 S90H1C017 S90H1U043	NRI UT CAL SHEET NRI	CODE CASE N-461.
B9.11 B-J 0313F	A-14/04	1B31-1RC-28A-4 ELBOW 10 PIPE	PT-H-600/2 UT-H-400/9	12B-H	S90H1P014 S90H1C022 S90H1U050 S90H1U105 S90H1U053 S90H1U054 S90H1U055 S90H1U056 S90H1U057 S90H1U058 S90H1U059 S90H1U060 S90H1U061 S90H1U062 S90H1U063 S90H1U064 S90H1U052	NRI UT CAL SHEET PI PLANAR IND. EVAL SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET WELD PROFILE	PLANAR INDICATIONS WERE RECORDED BY UT. SEE INF # 190H1004. CODE CASE N-461.



E.I. HATCH UNIT - SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMA
<u>REACTOR COOLANT SYSTEM</u>							
B9.11 B-J 0313E	A-14/04	1B31-1RC-28A-4 ELBOW TO PIPE OVERLAY	PT-H-600/2 GE-UT-201/0	134-H	S90H1P169 S90H1P181 R-032 S90H1U540 S90H1U665 S90H1U678 S90H1U683	NR1 NR1 NR1 UT THICKNESS UT THICKNESS UT THICKNESS UT THICKNESS	N/A
B9.11 B-J 0313C	A-14/04	1B31-1RC-28A-5 PIPE TO PIPE	PT-H-600/2 UT-H-400/9	12B-H	S90H1P080 S90H1C140 S90H1U305 S90H1U306	NI UT CAL SHEET NR1 WELD PROFILE	N/A
B9.11 B-J 0313C	A-14/04	1B31-1RC-28A-5A PIPE TO PIPE	PT-H-600/2 UT-H-400/9	12B-H	S90H1P088 S90H1C149 S90H1U317 S90H1C148 S90H1U316 S90H1C150 S90H1U318 S90H1C146 S90H1U314 S90H1U319 S90H1C272 S90H1U585	NR1 UT CAL SHEET NR1 UT CAL SHEET NR1 UT CAL SHEET R1 GEOMETRY UT CAL SHEET NR1 WELD PROFILE UT CAL SHEET R1 GEOMETRY	N/A

E. I. MATCH UNIT 1 SPRING 1990 REFUELLING 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							
B9.11 B-J 0313F	A-14/04	1831-1RC-28A-6 PIPE TO ELBOW	PT-H-600/2 UT-H-400/9	128-H	S90H1P036 S90H1C058 S90H1U119 S90H1U138 S90H1U122 S90H1U123 S90H1U124 S90H1U125 S90H1U126 S90H1U127 S90H1U128 S90H1U121	NP1 UT CAL SHEET R1 PLANAR IND. EVAL SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET WELD PROFILE	PLANAR INDICATIONS WERE RECORDED BY UT. SEE INF # 190H1008 CODE CASE N-461.
B9.11 B-J 0313E	A-14/04	1831-1RC-28A-6 PIPE TO ELBOW OVERLAY	PT-H-600/2 GE-UT-201/0	134-H	S90H1P171 S90H1P172 S90H1P174 S90H1P176 R-028 S90H1U696 S90H1U697 S90H1U684 S90H1U570 S90H1U675 S90H1U691	R1 LINEAR R1 LINEAR NRI NRI R1 PLANAR, LAMINAR EVAL. SHEET EVAL. SHEET UT THICKNESS UT THICKNESS UT THICKNESS UT THICKNESS	MULTIPLE LINEAR PT INDICATIONS IN TRANSITION AREA. REMOVED BY GRINDING. UT RECORDED 22 PLANAR & 1 LAMINAR INDICATION. ALL CODE ACCEPTABLE.

E.I. HATCH UNIT 1 SPRING 1990 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>							
89.11 B-J 0313C	A-14/04	1B31-1RC-2BA-7 ELBOW TO VALVE	PT-H-600/2 UT-H-400/9	12B-H	S90H1P037 S90H1C102 S90H1U234 S90H1C103 S90H1U237 S90H1U245 S90H1U224 S90H1U223 S90H1U236	NR1 UT CAL SHEET R1 PLANAR IND. UT CAL SHEET R1 PLANAR IND. EVAL SHEET SIZING SHEET SIZING SHEET WELD PROFILE	UT RECORDED PLANAR INDICATIONS SEE INF # 190H1012. LIMITED EXAM DUE TO VALVE. CODE CASE N-461.
89.11 B-J 0313E	A-14/04	1B31-1RC-2BA-7 ELBOW TO VALVE OVERLAY	PT-H-600/2 GE-UT-201/0	134-H	S90H1P179 R-031 S90H1U567 S90H1U648 S90H1U669 S90H1U710 S90H1U711	NR1 NR1 UT THICKNESS UT THICKNESS UT THICKNESS EVAL SHEET EVAL SHEET	N/A
89.11 B-J 0313C	A-14/04	1B31-1RC-2BA-8 VALVE TO PIPE	PT-H-600/2 UT-H-400/9	12B-H	S90H1P035 S90H1P090 S90H1C147 S90H1U315 S90H1C145 S90H1U313 S90H1C154 S90H1U327 S90H1U326 S90H1U331 S90H1U328 S90H1U330 S90H1U329 S90H1U332	R1 LINEAR NR1 UT CAL SHEET NR1 UT CAL SHEET R1 PLANAR IND. UT CAL SHEET R1 PLANAR IND. WELD PROFILE SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET	LINEAR PT INDICATION. REMOVED BY FLAPPING UT RECORDED PLANAR INDICATIONS SEE INF # 190H1018. ONE-SIDED EXAM DUE TO VALVE GEOMETRY.



E.L. MATCH UNIT 1 SPRING 1990 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							
B9.11 B-J 0313E	A-14/04	1831-1RC-28A-8 VALVE TO PIPE OVERLAY	PT-H-600/2 GE-UT-201/0	134-H	S90H1P180 R-033 S90H1U712 S90H1U667 S90H1U687	NR1 RI PLANAR IND. EVAL SHEET UT THICKNESS UT THICKNESS	UT RECORDED SIX PLANAR CORRELATIONS, ALL CODE ACCEPTABLE.
B9.31 B-J 0313	A-14/04	1831-1RC-28A-8BC PIPE TO BC	PT-H-600/2	N/A	S90H1P038	NR1	N/A
B9.11 B-J 0313C	A-14/04	1831-1RC-28A-9 PIPE TO ELBOW	PT-H-600/2 UT-H-400/9	128-H	S90H1P039 S90H1C059 S90H1U130 S90H1U134	NR1 NR1 UT CAL SHEET WELD PROFILE	CODE CASE N-461.
B9.12 B-J 0313A	A-14/04	1831-1RC-28A-9LD-1 LONGITUDINAL WELD DOWNSTREAM ON INSIDE OF ELBOW	PT-H-600/2 UT-H-400/9	128-H	S90H1P043 S90H1C060 S90H1U132	NR1 NR1 UT CAL SHEET	CODE CASE N-461.
B9.12 B-J 0313A	A-14/04	1831-1RC-28A-9LD-0 LONGITUDINAL WELD DOWNSTREAM ON OUTSIDE OF ELBOW	PT-H-600/2 UT-H-400/9	128-H	S90H1P042 S90H1C062 S90H1U133	NR1 NR1 UT CAL SHEET	CODE CASE N-461.

E.I. HATCH UNIT 1 SPRING 1990 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 0313A	A-14/04	1B31-1RC-28A-9LU LONGITUDINAL TEAM WELD EXTENDING UPSTREAM	PT-H-600/2 UT-H-400/9	12B-H	S90H1P044 S90H1C061 S90H1U131	NR1 UT CAL SHEET NR1	N/A
B9.11 B-J 0313E	A-14/04	1B31-1RC-28A-10 ELBOW TO PUMP	PT-H-600/2 UT-H-408/2	134-H	S90H1P045 S90H1C139 S90H1U304	NR1 UT CAL SHEET NR1	N/A
B9.11 B-J 0313C	A-14B/00	1B31-1RC-28A-11 PUMP TO PIPE	UT-H-400/9	12B-H	S90H1C231 S90H1U487 S90H1C230 S90H1U486 S90H1U488	UT CAL SHEET RI GEOMETRY UT CAL SHEET RI GEOMETRY WELD PROFILE	ONE-SIDED EXAM DUE TO PUMP CONFIGURATION.
B9.11 B-J 0313E	A-14B/00	1B31-1RC-28A-12 PIPE TO VALVE	PT-H-600/2 UT-H-408/2	134-H	S90H1P084 S90H1C188 S90H1U409	NR1 UT CAL SHEET RI PLANAR IND.	PREVIOUSLY RECORDED UT INDICATIONS.
B9.11 B-J 0313C	A-14B/00	1B31-1RC-28A-13 VALVE TO ELBOW	PT-H-600/2 UT-H-400/9	12B-H	S90H1P091 S90H1C196 S90H1U422 S90H1C197 S90H1U423 S90H1U587	NR1 UT CAL SHEET RI GEOMETRY UT CAL SHEET RI GEOMETRY WELD PROFILE	ONE SIDED EXAM DUE TO VALVE.

E.I. HATCH UNIT 1 SPRING 1990 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							
B9.11 B-J 0313C	A-14B/00	1831-1RC-28A-14 ELBOW TO PIPE	GE-UT-200/0	128-H	R-005 S90H1U502 S90H1U503 S90H1U504 S90H1U505 S90H1U506 S90H1U507 S90H1U508 S90H1U509 S90H1U510	R1 PLANAR IND. SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET	UT RECORDED 9 PLANAR FLAWS. SEE INF # 109H1026
B9.11 B-J 0313E	A-14B/00	1831-1RC-28A-14 ELBOW TO PIPE OVERLAY	PT-H-600/2 GE-UT-201/0	134-H	* R-026 S90H1U693 S90H1U649 S90H1U666 S90H1U688	NP1 R1 PLANAR IND. EVAL SHEET UT THICKNESS UT THICKNESS UT THICKNESS	UT RECORDED THREE PLANAR INDICATIONS. ALL WERE CODE ACCEPTABLE. * PT PERFORMED BY GPC QC.
B9.11 B-J 0313C	A-14B/00	1831-1RC-28A-15 PIPE TO TEE	UT-H-400/9	128-H	S90H1C223 S90H1U675 S90H1C222 S90H1U676 S90H1U674	UT CAL SHEET R1 GEOMETRY UT CAL SHEET R1 GEOMETRY WELD PROFILE	ONE-SIDED EXAM DUE TO TEE CONFIGURATION.
B9.11 B-J 0313C	A-14B/00	1831-1RC-28A-16 TEE TO CROSS	UT-H-400/9 GE-UT-200/0	92-H	R-014 S90H1C244 S90H1U522	R1 GEOMETRY UT CAL SHEET NP1	N/A



E.I. HATCH UNIT 1 SPRING 1990 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 0313C	A-14B/00	1B31-1RC-28A-17 CROSS TO REDUCER	UT-H-400/9	92-H	S90H1C232 S90H1U489 S90H1U492	UT CAL SHEET NRI WELD PROFILE	N/A
B5.10 B-F 0313C	A-15/04	1B31-1RC-28B-1 NOZZLE TO SAFE-END	PT-H-600/2 UT-H-409/6	84-H 29-H	S90H1P019 S90H1C048 S90H1U106 S90H1C049 S90H1U107 S90H1C050 S90H1U108 S90H1C051 S90H1U109 S90H1C052 S90H1U110 S90H1C053 S90H1U111	NI UT CAL SHEET NRI UT CAL SHEET RI GEOMETRY UT CAL SHEET NRI UT CAL SHEET NRI UT CAL SHEET NRI UT CAL SHEET NRI	N/A
B9.11 B-J 0313C	A-15/04	1B31-1RC-28B-2 SAFE-END TO PIPE	PT-H-600/2 UT-H-400/9	128-H	S90H1P022 S90H1C032 S90H1U078 S90H1U099	NI UT CAL SHEET RI GEOMETRY WELD PROFILE	CODE CASE N-461.
B9.11 B-J 0313E	A-15/04	1B31-1RC-28B-3 PIPE TO ELBOW	PT-H-600/2 UT-H-408/2	134-H	S90H1P021 S90H1C040 S90H1U085	NI UT CAL SHEET NRI	N/A

E-1. HATCH UNIT 1 SPRING 1990 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							
B9.11 B-J 0313E	A-15/04	1B31-1RC-28B-6 ELBOW TO PIPE	PT-H-600/2 UT-H-408/2	134-H	S90H1P020 S90H1C200 S90H1U432 S90H1C234 S90H1U493 S90H1U660	NI UT CAL SHEET RI PLANAR IND. UT CAL SHEET RI PLANAR IND. EVAL SHEET	UT RECORDED PLANAR INDICATIONS IN WELD OVERLAY MATERIAL. SEE INF # 190H1024.
B9.11 B-J 0313C	A-15/04	1B31-1RC-28B-5 PIPE TO TEE	PT-H-600/2 UT-H-400/9	128-H	S90H1P026 S90H1C033 S90H1U079 S90H1U100 S90H1C034 S90H1U080	NR1 UT CAL SHEET NI WELD PROFILE UT CAL SHEET RI GEOMETRY	ONE-SIDED EXAM DUE TO TEE CONFIGURATION.
B9.11 B-J 0313C	A-15/04	1B31-1RC-28B-6 TEE TO PIPE	GE-UT-200/0	128-H	R-004	RI GEOMETRY	ONE-SIDED EXAM DUE TO TEE.
B9.11 B-J 0313C	A-15/04	1B31-1RC-28B-7 PIPE TO ELBOW	PT-H-600/2 UT-H-400/9	128-H	S90H1P092 S90H1C182 S90H1U396 S90H1U397	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A

E.I. HATCH UNIT 1 SPRING 1990 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							
B9.11 B-J 0313F	A-15/04	1B31-1RC-28B-8 ELBOW TO VALVE	PT-H-600/2 UT-H-400/9	12B-H	S90H1P041 S90H1C066 S90H1U140 S90H1C065 S90H1U139 S90H1C067 S90H1U141 S90H1U149 S90H1U150 S90H1U151 S90H1U152 S90H1U153 S90H1U154 S90H1U155 S90H1U156 S90H1U157 S90H1U158	NRI  UT CAL SHEET RI PLANAR IND. UT CAL SHEET RI PLANAR IND. UT CAL SHEET RI PLANAR IND. EVAL SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET	PLANAR INDICATIONS WERE RECORDED BY UT. SEE INF # 190H1009 LIMITED EXAM DUE TO VALVE. CODE CASE N-461.
B9.11 B-J 0313E	A-15/04	1B31-1RC-28B-8 ELBOW TO VALVE OVERLAY	PT-H-600/2 GE-UT-201/0	134-H	S90H1P173 R-024 S90H1U690 S90H1U689 S90H1U681 S90H1U651 S90H1U568	NRI RI PLANAR IND. UT EVAL SHEET UT EVAL SHEET UT THICKNESS UT THICKNESS UT THICKNESS	UT RECORDED 2 PLANAR INDICATIONS. BOTH ARE CODE ALLOWABLE.
B9.11 B-J 0313C	A-15/04	1B31-1RC-28B-9 VALVE TO PIPE	GE-UT-200/0	12B-H	R-006 S90H1U499 S90H1U500 S90H1U501	RI PLANAR IND. SIZING SHEET SIZING SHEET SIZING SHEET	UT RECORDED 3 PLANAR INDICATIONS. SEE INF # 190H1033. LIMITED EXAM DUE TO VALVE.



E.I. HATCH UNIT 1 SPRING 1990 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 0313E	A-15/04	1B31-1RC-28B-9 VALVE TO PIPE OVERLAY	PT-H-600/2 GE-UT-201/0	134-H	S90H1P175 R-027 S90H1U668 S90H1U679 S90H1U680 S90H1U684	NR1 RI PLANAR IND. UT THICKNESS UT THICKNESS UT THICKNESS UT THICKNESS	UT RECORDED 16 PLANAR INDICATIONS. SEE INF # 190H1045.
B9.11 B-J 0313F	A-15/04	1B31-1RC-28B-10 PIPE TO ELBOW	PT-H-600/2 UT-H-400/9 GE-UT-201/0	128-H	S90H1P040 S90H1C068 S90H1U160 S90H1U143 S90H1U144 S90H1U145 S90H1U146 S90H1U147 S90H1U148 S90H1U161	NR1 RI UT CAL SHEET PLANAR IND. EVAL SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET WELD PROFILE	PLANAR INDICATIONS WERE RECORDED BY UT. SEE INF # 190H1009.
B9.11 B-J 0313E	A-15/04	1B31-1RC-28C-10 PIPE TO ELBOW OVERLAY	PT-H-600/2 UT-H-408/2 GE-UT-201/0	134-H	S90H1P182 R-034 S90H1U719 S90H1C315 S90H1U714 S90H1C317 S90H1U716 S90H1C319 S90H1U718 S90H1U541 S90H1U709 S90H1U695	NR1 RI PLANAR, LAMINAR EVAL SHEET UT CAL SHEET NR1 UT CAL SHEET NR1 UT CAL SHEET NR1 UT THICKNESS UT THICKNESS UT THICKNESS	UT RECORDED FOUR PLANAR AND TWO LAMINAR INDICATIONS, ALL ARE CODE ACCEPTABLE.

E.I. HATCH UNIT 1 SPRING 1990 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 0313E	A-15/04	1B31-1RC-28B-11 ELBOW TO PUMP	PT-H-600/2 UT-H-408/2	134-H	S90H1P089 S90H1C161 S90H1U344 S90H1U345	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A
B9.11 B-J 0313C	A-15B/00	1B31-1RC-28B-12 PUMP TO PIPE	UT-H-400/9 GE-UT-200/0	12B-H	R-003 S90H1C249 S90H1U529 S90H1C250 S90H1U530	R1 GEOMETRY UT CAL SHEET R1 GEOMETRY UT CAL SHEET R1 GEOMETRY	ONE-SIDED EXAM DUE TO PUMP GEOMETRY.
B9.31 B-J 0313C	A-15B/00	1B31-1RC-28B-12BC PIPE TO BC	UT-H-400/9	12B-H	S90H1C303 S90H1U652 S90H1C304 S90H1U653 S90H1U655 S90H1U654	UT CAL SHEET NR1 UT CAL SHEET NR1 WELD PROFILE WELD PROFILE	LIMITED EXAM DUE TO BRANCH CONNECTION CONFIGURATION.
B9.11 B-J 0313C	A-15B/00	1B31-1RC-28B-13 PIPE TO VALVE	UT-H-400/9 GE-UT-200/0	12B-H	R-001 S90H1U515 S90H1C239 S90H1U513 S90H1C240 S90H1U514	R1 PLANAR IND. SIZING SHEET UT CAL SHEET NR1 UT CAL SHEET NR1	UT RECORDED 1 PLANAR INDICATION. SEE INF # 190H1025. ONE-SIDED EXAM DUE TO VALVE GEOMETRY.

E.1.1. HATCH UNIT 1 SPRING 1990 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							
B9.11 B-J 0313E	A-15B/00	1B31-1RC-28B-13 PIPE TO VALVE OVERLAY	PT-H-600/2 GE-UT-201/0	134-H	<ul style="list-style-type: none"><li>NR1</li><li>R1</li><li>R-025</li><li>S90H1U694</li><li>S90H1U685</li><li>S90H1U676</li><li>S90H1U659</li></ul>	UT RECORDED 10 PLANAR INDICATIONS IN THE WELD OVERLAY MATERIAL, ALL ARE CODE ACCEPTABLE. * PT PERFORMED BY GPC OC	
B9.11 B-J 0313C	A-15B/00	1B31-1RC-28B-14 VALVE TO ELBOW	GE-UT-200/0	128-H	<ul style="list-style-type: none"><li>R-016</li><li>S90H1U605</li><li>S90H1U606</li><li>S90H1U607</li><li>S90H1U608</li><li>S90H1U609</li></ul>	UT RECORDED 5 PLANAR INDICATIONS. SEE INF # 190H1036. ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.	
B9.11 B-J 0313E	A-15B/00	1B31-1RC-28B-14 VALVE TO ELBOW OVERLAY	PT-H-600/2 GE-UT-201/0	134-H	<ul style="list-style-type: none"><li>NR1</li><li>NR1</li><li>S90H1P178</li><li>R-030</li><li>S90H1U650</li><li>S90H1U686</li></ul>	N/A  UT THICKNESS UT THICKNESS	



C.I. HATCH UNIT 1 SPRING 1990 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 0313C	A-15B/00	1B31-1RC-28B-15 ELBOW TO PIPE	UT-H-400/9 GE-UT-200/0	128-H	S90H1C246 S90H1U524 S90H1U525 R-013 S90H1U698 S90H1U699 S90H1U700 S90H1U701 S90H1U702 S90H1U703 S90H1U704 S90H1U705 S90H1U706 S90H1U707 S90H1U708	UT CAL SHEET R1 PLANAR IND. R1 PLANAR IND. R1 PLANAR IND. SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET SIZING SHEET	UT RECORDED 11 PLANAR INDICATIONS. SEE INF # 190H1034.
B9.11 B-J 0313E	A-15B/00	1B31-1RC-28B-15 ELBOW TO PIPE OVERLAY	PT-H-600/2 GE-UT-201/0	134-H	S90H1P177 R-029 S90H1U612 S90H1U692	NR1 NR1 UT THICKNESS UT THICKNESS	N/A
B9.11 B-J 0313E	A-15B/00	1B31-1RC-28B-16 PIPE TO TEE	PT-H-600/2 UT-H-408/2	134-H	S90H1P062 S90H1C125 S90H1U281 S90H1U282	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A
B9.11 B-J 0313C	A-15B/00	1B31-1RC-28B-17 TEE TO CROSS	UT-H-400/9 GE-UT-200/0	92-H	R-011 S90H1C245 S90H1U523	R1 GEOMETRY UT CAL SHEET NR1	N/A

E.I. HATCH UNIT - SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

<u>ASME SECTION XI</u>	<u>EXAM FIGURE NO.</u>	<u>EXAMINATION/AREA</u>	<u>EXAMINATION PROCEDURE</u>	<u>CAL BLOCK</u>	<u>EXAM/CAL SHEET NO.</u>	<u>RESULTS</u>	<u>REMARKS</u>
<u>REACTOR COOLANT SYSTEM</u>							
B9.11 B-J 0313C	A-15B/00	1B31-1RC-2BB-1B CROSS TO REDUCER	UT-H-400/9	92-H	S90H1C233 S90H1U490 S90H1U491	UT CAL SHEET NR1 WELD PROFILE	N/A
<u>REACTOR COOLING PUMPS</u>							
B6.180 B-G-1	-	RC-A PUMP BOLT-1 THRU 16 PUMP BOLTING	UT-H-420/4	149-H	90H1C063 90H1U136	UT CAL SHEET NR1	N/A
B12.20 B-L-2	A-20/03	RC-A PUMP CASING	VT-H-730/5	N/A	S90H1V199	SAT	N/A
B6.190 B-G-1	-	RC-A PUMP-FLANGE SURFACE AND THREADS IN FLANGE	VT-H-710/2	N/A	S90H1V176	UNS	THREAD DAMAGE SEE INF # 190H1020 ACCEPTABLE AS IS.
B6.200 B-G-1	-	RC-A PUMP-NUTS AND WASHERS	VT-H-710/2	N/A	S90H1V111	SAT	N/A
B10.20 B-K-1	A-20/03	RC-A PUMP LUG-3B2 RESTRAINT LUG	PT-H-600/2	N/A	S90H1P163	NR1	N/A
B10.20 B-K-1	A-20/03	RC-A PUMP LUG-3C2 RESTRAINT LUG	PT-H-600/2	N/A	S90H1P162	NR1	N/A
B10.20 B-K-1	A-20/03	RC-A PUMP LUG-3D2 RESTRAINT LUG	PT-H-600/2	N/A	S90H1P161	NR1	N/A

E-1. MATCH UNIT 1 - RING 1000 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 COOLING PUMPS</u>							
B6.180 B-G	-	RC-B PUMP BOLT-1 THRU 16 PUMP BOLTING	UT-H-420/4	149-H	90H1C064 90H1U137	UT CAL SHEET MRI	N/A
B12.20 B-L-2	A-20/03	RC-B PUMP CASING	VT-H-730/5	N/A	S90H1V200	SAT	N/A
B6.190 B-G-1	-	RC-B PUMP-FLANGE SURFACE AND THREADS IN FLANGE	VT-H-710/2	N/A	S90H1V120	SAT	N/A
B6.200 B-G-1	-	RC-B PUMP-NUTS AND WASHERS	VT-H-710/2	N/A	S90H1V112	SAT	N/A
B10.20 B-K-1	A-20/03	RC-B PUMP LUG-1 RESTRAINT LUG	PT-H-600/2	N/A	S90H1P156	MRI	N/A
B10.20 B-K-1	A-20/03	RC-B PUMP LUG-1A1 RESTRAINT	PT-H-600/2	N/A	S90H1P155	MRI	N/A
B10.20 B-K-1	A-20/03	RC-B PUMP LUG-1A2 RESTRAINT LUG	PT-H-600/2	N/A	S90H1P158	MRI	N/A
B10.20 B-K	A-20/03	RC-B PUMP LUG-1B1 RESTRAINT LUG	PT-H-600/2	N/A	S90H1P157	MRI	N/A



### CLASS 1 COMPONENTS

RESIDUAL HEAT REMOVAL SYSTEM

E.I. HATCH UNIT 1 SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
B9.11 B-J 0313C	A-23/02	1E11-1RHR-20B-D-1 TEE TO PIPE	PT-H-600/2 UT-H-400/9	130-H	S90H1P069 S90H1C174 S90H1U361 S90H1.175 S90H1U367 S90H1U363	NI UT CAL SHEET NRI UT CAL SHEET NRI WELD PROFILE	ONE-SIDED EXAM DUE TO TEE CONFIGURATION.
B9.31 B-J 0313C	A-23/02	1E11-1RHR-20B-D-1BC PIPE TO BC	PT-H-600/2 UT-H-400/9	130-H	S90H1P068 S90H1C176 S90H1U364 S90H1C177 S90H1U365 S90H1U366	NI UT CAL SHEET NRI UT CAL SHEET NRI WELD PROFILE	ONE-SIDED EXAM DUE TO BRANCH- CONNECTION CONFIGURATION.
B9.11 B-J 0313C	A-23/02	1E11-1RHR-20B-D-2 PIPE TO ELBOW	PT-H-600/2 UT-H-400/9	130-H	S90H1P0.1 S90H1P099 S90H1C164 S90H1U348 S90H1U349 S90H1C165 S90H1U350	NI NI UT CAL SHEET NRI WELD PROFILE UT CAL SHEET RI GEOMETRY	N/A
B9.11 B-J 0313E	A-23/02	1E11-1RHR-20B-D-3 ELBOW TO PIPE	PT-H-600/2 UT-H-400/2	134-H	S90H1P066 S90H1C105 S90H1U241 S90H1U242	NI UT CAL SHEET NRI WELD PROFILE	N/A
B9.11 B-J 0313F	A-23/02	1E11-1RHR-20B-D-4 PIPE TO PIPE	PT-H-600/2 UT-H-400/9	130-H	S90H1P032 S90H1C047 S90H1U103	NRI UT CAL SHEET NRI	N/A

E.I. HATCH UNIT 1 SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
B9.11 B-J 0313C	A-23/02	1E11-1RHR-20B-D-5 PIPE TO VALVE	PT-H-600/2 UT-H-409/6	130-H	S90H1P031 S90H1C167 S90H1U352 S90H1U353 S90H1C166 S90H1U351	NR1 UT CAL SHEET R1 GEOMETRY WELD PROFILE UT CAL SHEET R1 GEOMETRY	ONE-SIDED EXAM DUE TO VALVE.
B9.11 B-J 0313C	A-21/03	1E11-1RHR-24A-R-12 VALVE TO PIPE DIS.METAL SHOP WELD	PT-H-600/2 UT-H-409/6 GE-UT-200/0	104-H	S90H1P077 S90H1C153 S90H1U324 S90H1U325 S90H1C210 S90H1U454 S90H1C209 S90H1U453 S90H1U664 S90H1C156 S90H1U335 R-019	NR1 UT CAL SHEET R1 GEOMETRY WELD PROFILE UT CAL SHEET R1 GEOMETRY UT CAL SHEET R1 GEOMETRY EVAL SHEET UT CAL SHEET NR1 R1 NON-GEOMETRIC	TWO NON-GEOMETRIC INDICATIONS WERE RECORDED BY THE AUTOMATED SYSTEM. THEY HAVE NO MEASURABLE THRU-WALL DIMENSION. ONE-SIDED EXAM DUE TO VALVE.
B9.11 B-J 0313E	A-21/03	1E11-1RHR-24A-R-13 PIPE TO PIPE	PT-H-600/2 UT-H-408/2	134-H	S90H1P078 S90H1C144 S90H1U310 S90H1U311 S90H1U312	NR1 UT CAL SHEET R1 PLANAR IND. SIZING SHEET SIZING SHEET	UT RECORDED PLANAR INDICATIONS IN THE OVERLAY. SEE INF # 190H1016.



E.I. MATCH UNIT 1 SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>RESIDUAL HEAT REMOVAL SYSTEM</u>							
B9.11 B-J 0313C	A-21/03	1E11-1RHR-24A-R-14 PIPE TO TEE	PT-H-600/2 UT-H-400/9	104-H	S90H1P079 S90H1C151 S90H1U320 S90H1C152 S90H1U321 S90H1U322	NR1 UT CAL SHEET NR1 UT CAL SHEET RI GEOMETRY WELD PROFILE	ONE-SIDED EXAM DUE TO TEE CONFIGURATION.
B9.11 B-J 0313E	A-22/03	1E11-1RHR-24B-R-12 VALVE TO PIPE	PT-H-600/2 UT-H-408/2	135-H	S90H1P074 S90H1C162 S90H1U346 S90H1U367 S90H1U388 S90H1U389 S90H1U390 S90H1U391	RI LINEAR UT CAL SHEET RI PLANAR IND. UT SIZING UT SIZING UT SIZING UT SIZING UT SIZING	CODE ALLOWABLE LINEAR PT INDICATIONS. UT RECORDED PLANAR INDICATIONS IN THE OVERLAY. SEE INF # 100N1035
B9.11 B-J 0313E	A-22/03	1E11-1RHR-24B-R-13 PIPE TO PIPE	PT-H-600/2 UT-H-408/2	134-H	S90H1P076 S90H1C163 S90H1U347	NR1 UT CAL SHEET NR1	N/A
B9.11 B-J 0313C	A-22/03	1E11-1RHR-24B-R-14 PIPE TO TEE	GE-UT-200/0	104-H	R-022	RI GEOMETRY	ONE-SIDED EXAM DUE TO TEE.

E.I. HATCH UNIT - SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>CORE SPRAY SYSTEM</u>							
B9.11 B-J	A-26/03	1E21-1CS-10A-3 PIPE TO FLUED HEAD	MT-H-500/4 UT-H-400/9	137-H	S90H1M026 S90H1C074 S90H1U171 S90H1U173 S90H1C075 S90H1U172	NI UT CAL SHEET NRI WELD PROFILE UT CAL SHEET RI GEOMETRY	ONE-SIDED EXAM DUE TO FLUED- HEAD CONFIGURATION.
B5.50 B-F 0313D	A-26/03	1E21-1CS-10A-18A PIPE TO SAFE-END EXTENSION	PT-H-600/2 UT-H-409/6	18-H 137-H	S90H1P052 S90H1C115 S90H1U265 S90H1C113 S90H1U261 S90H1C118 S90H1U268 S90H1C114 S90H1U262 S90H1C116 S90H1U266 S90H1C117 S90H1U267 S90H1U264	NRI UT CAL SHEET NRI UT CAL SHEET NRI UT CAL SHEET NRI UT CAL SHEET NRI UT CAL SHEET NRI UT CAL SHEET NRI WELD PROFILE	LIMITED EXAM FROM SAFE-END EXTENSION DUE TO OD TAPER.
B9.11 B-J 0313D	A-26/03	1E21-1CS-10A-19A SAFE-END EXTENSION TO SAFE-END	PT-H-600/2 UT-H-400/9	85-H	S90H1P053 S90H1C110 S90H1U256	NRI UT CAL SHEET NRI	LIMITED EXAM DUE TO SAFE-END CONFIGURATION.

E.I. HATCH UNIT 1 SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>CORE SPRAY SYSTEM</u>							
B5.10 B-F 03130	A-26/03	1E21-1CS-10A-20A SAFE-END TO NOZZLE	PT-H-600/2 UT-H-409/6	108-H 85-H	S90H1P054 S90H1C119 S90H1U269 S90H1C120 S90H1U272 S90H1C122 S90H1U274 S90H1C121 S90H1U273 S90H1C123 S90H1U275 S90H1U271	NR1 UT CAL SHEET NR1 UT CAL SHEET NR1 UT CAL SHEET RI GEOMETRY UT CAL SHEET NR1 UT CAL SHEET NR1 WELD PROFILE	N/A
B9.11 B-J	A-27/03	1E21-1CS-10B-4 PIPE TO FLUED HEAD	MT-H-500/4 UT-H-400/9	137-H	S90H1M078 S90H1C267 S90H1U566	NR1 UT CAL SHEET NR1	N/A
B9.11 B-J	A-27/03	1E21-1CS-10B-5 PIPE TO ELBOW	MT-H-500/4 UT-H-400/9	137-H	S90H1M023 S90H1C288 S90H1U622	NR1 UT CAL SHEET NR1	N/A
B9.11 B-J	A-27/03	1E21-1CS-10B-8 VALVE TO ELBOW	MT-H-500/4 UT-H-400/9	137-H	S90H1M024 S90H1C082 S90H1U190 S90H1C083 S90H1U191	NR1 UT CAL SHEET RI GEOMETRY UT CAL SHEET RI GEOMETRY	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.



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CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
CORE SPRAY SYSTEM							
B9.11 B-J	A-27/03	1E21-1CS-10B-10 PIPE TO VALVE	MT-H-500/4 UT-H-400/9	137-H	S90H1M025 S90H1C302 S90H1U644 S90H1C301 S90H1U645 S90H1U643	NR1 UT CAL SHEET NR1 UT CAL SHEET NR1 WELD PROFILE	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.
B5.50 B-F 03130	A-27/03	1E21-1CS-10B-19A PIPE TO SAFE-END EXTENSION	PT-H-600/2 UT-H-400/6	1B-H 137-H	S90H1P085 S90H1C194 S90H1U418 S90H1U419 S90H1C305 S90H1U656 S90H1C306 S90H1U657	NI UT CAL SHEET NR1 WELD PROFILE UT CAL SHEET NR1 UT CAL SHEET NR1	LIMITED EXAM FROM SAFE-END EXTENSION DUE TO OD TAPER.
B9.11 B-J 03130	A-27/03	1E21-1CS-10B-20A SAFE-END EXTENSION TO SAFE-END	PT-H-600/2 UT-H-400/9	85-H	S90H1P087 S90H1C187 S90H1U408 S90H1U407 S90H1C203 S90H1U445 S90H1C212 S90H1U458	NI UT CAL SHEET R1 GEOMETRY WELD PROFILE UT CAL SHEET R1 GEOMETRY UT CAL SHEET R1 GEOMETRY	LIMITED EXAM DUE TO SAFE-END CONFIGURATION.

E.I. HATCH UNIT 1 SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	TECHNICAL SHEET NO.	RESULTS	REMARKS
<u>CORE SPRAY SYSTEM</u>							
B5.10 B-F 0313D	A-27/03	1E21-1CS-10B-21A SAFE-END TO NOZZLE	PT-H-600/2 UT-H-409/6	10B-H 85-H	S90H1P086 S90H1C195 S90H1U420 S90H1U421 S90H1C202 S90H1U440 S90H1C201 S90H1U439 S90H1C213 S90H1U459 S90H1C211 S90H1U457	NR1 UT CAL SHEET NR1 WELD PROFILE UT CAL SHEET NR1 UT CAL SHEET R1 GEOMETRY UT CAL SHEET R1 GEOMETRY UT CAL SHEET R1 GEOMETRY	N/A
<u>HIGH PRESSURE COOLANT INJECTION SYSTEM</u>							
B9.21 B-J	A-29A/02	1E41-1HPC1-3-R-1 VALVE TO PIPE	MT-H-500/4	N/A	S90H1M015	NI	N/A
B9.21 B-J	A-29A/02	1E41-1HPC1-3-R-4 PIPE TO ELBOW	MT-H-500/4	N/A	S90H1M016	NI	N/A
B9.11 B-J	A-28/03	1E41-1HPC1-10-D-1 BRANCH CONNECTION TO PIPE	MT-H-500/4 UT-H-400/9	137-H	S90H1M062 S90H1C251 S90H1U531 S90H1C252 S90H1U532 S90H1U533	NR1 UT CAL SHEET NR1 UT CAL SHEET NR1 WELD PROFILE	LIMITED EXAM DUE TO BRANCH CONNECTION CONFIGURATION.

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CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>HIGH PRESSURE COOLANT INJECTION SYSTEM</u>							
89.11 B-J	A-28/03	1E41-1HPC1-10-D-4 PIPE TO ELBOW	MT-H-500/4 UT-H-400/9	137-H	S90H1M063 S90H1C238 S90H1U511 S90H1U512	NR1 UT CAL SHEET R1 GEOMETRY WELD PROFILE	N/A
89.11 B-J	A-28/03	1E41-1HPC1-10-D-16 FLUED HEAD TO PIPE	MT-H-500/4 UT-H-400/9	137-H	S90H1M084 S90H1C270 S90H1U582 S90H1C271 S90H1C583 S90H1U584	NR1 UT CAL SHEET NR1 UT CAL SHEET R1 GEOMETRY WELD PROFILE	ONE-SIDED EXAM DUE TO FLUED HEAD CONFIGURATION.
<u>REACTOR CORE ISOLATION COOLING SYSTEM</u>							
89.11 B-J	A-30/03	1E51-1RC1C-4-D-4 PIPE TO ELBOW	MT-H-500/4 UT-H-400/9	7-H	S90H1M036 S90H1C205 S90H1U441 S90H1U448	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A
89.11 B-J	A-30/03	1E51-1RC1C-4-D-6 PIPE TO ELBOW	MT-H-500/4 UT-H-400/9	7-H	S90H1M037 S90H1C206 S90H1U442 S90H1U449	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A
89.11 B-J	A-31/04	1E51-1RC1C-4-R-6 ELBOW TO PIPE	MT-H-500/4 UT-H-400/9	142-H	S90H1M057 S90H1C204 S90H1U444 S90H1U447	NR1 UT CAL SHEET NR1 WELD PROFILE	N/A



E.I. WATCH UNIT 1 SPRING 1990 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 CLEANUP SYSTEM</u>							
B9.11 B-J 0313A	A-32/04	1G31-1RWCLUM-6-D-5 VALVE TO ELBOW	PT-H-600/2 UT-H-400/9	133-H	S90H1P132 S90H1C215 S90H1U662 S90H1C214 S90H1U661	NR! UT CAL SHEET NR! UT CAL SHEET NR!	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.
B9.12 B-J 0313A	A-32/04	1G31-1RWCLUM-6-D-5-1R LONG SEAM WELD DOWNSTREAM ON INSIDE OF ELBOW	PT-H-600/2 UT-H-400/9	133-H	S90H1P134 S90H1C216 S90H1U663	NR! UT CAL SHEET NI	N/A
B9.12 B-J 0313A	A-32/04	1G31-1RWCLUM-6-D-5-OR LONG SEAM WELD DOWNSTREAM ON OUTSIDE OF ELBOW	PT-H-600/2 UT-H-400/9	133-H	S90H1P133 S90H1C217 S90H1U664	NR! UT CAL SHEET NI	N/A
B9.11 B-J 0313A	A-32/04	1G31-1RWCLUM-6-D-6 ELBOW TO PIPE	PT-H-600/2 UT-H-400/9	133-H	S90H1P135 S90H1C218 S90H1U665	NR! UT CAL SHEET NR!	N/A
B9.12 B-J 0313A	A-32/04	1G31-1RWCLUM-6-D-6-LD LONG SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/2 UT-H-400/9	133-H	S90H1P136 S90H1C219 S90H1U666	NR! UT CAL SHEET NI	N/A
B9.32 B-J 0313A	A-32/04	1G31-1RWCLUM-6-D-6-BC-1 PIPE TO BRANCH CONNECTION	PT-H-600/2	133-H	S90H1P137	NR!	N/A

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CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
REACTOR WATER CLEANUP SYSTEM							
B9.11 B-J 0313A	A-32/04	1631-1RWCLUM-6-D-7 PIPE TO ELBOW	PT-H-600/2 UT-H-400/9	133-H	S90H1P048 S90H1C131 S90H1U292 S90H1U302	NI UT CAL SHEET NRI WELD PROFILE	N/A
B9.12 B-J 0313A	A-32/04	1631-1RWCLUM-6-D-7-1R LONG SEAM WELD DOWNSTREAM ON INSIDE OF ELBOW	PT-H-600/2 UT-H-400/9	133-H	S90H1P049 S90H1C130 S90H1U288 S90H1U452 S90H1U451 S90H1C129 S90H1U294 S90H1U293	NI UT CAL SHEET RI PLANAR IND. EVAL SHEET UT SIZING UT CAL SHEET RI PLANAR IND. WELD PROFILE	CODE ALLOWABLE SUB-SURFACE PLANAR FLAW.
B9.12 B-J 0313A	A-32/04	1631-1RWCLUM-6-D-7-LU LONG SEAM WELD EXTENDING UPSTREAM	PT-H-600/2 UT-H-400/9	133-H	S90H1P051 S90H1C133 S90H1U291 S90H1U301	NI UT CAL SHEET NRI WELD PROFILE	N/A
B9.12 B-J 0313A	A-32/04	1631-1RWCLUM-6-D-7-OR LONG SEAM WELD DOWNSTREAM ON OUTSIDE OF ELBOW	PT-H-600/2 UT-H-400/9	133-H	S90H1P050 S90H1C132 S90H1U290 S90H1U300	NI UT CAL SHEET NRI WELD PROFILE	N/A
B9.11 B-J 0313A	A-32/04	1631-1RWCLUM-6-D-10 ELBOW TO PIPE	PT-H-600/2 UT-H-400/9	133-H	S90H1P058 S90H1C134 S90H1U289 S90H1U299	NI UT CAL SHEET NRI WELD PROFILE	N/A

E.I. MATCH UNIT 1 SPRING 1990 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 CLEANUP SYSTEM</u>							
B9.12 B-J 0313A	A-32/04	1G31-1RWUM-6-D-10-LD LONG SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/2 UT-H-400/9	133-H	S90H1P056 S90H1C135 S90H1U295	NI UT CAL SHEET MRI	N/A
B9.11 B-J 0313A	A-32/04	1G31-1RWUM-6-D-10-A PIPE TO PIPE	PT-H-600/2 UT-H-400/9	133-H	S90H1P057 S90H1C136 S90H1U296 S90H1U303	NI UT CAL SHEET MRI WELD PROFILE	N/A
B9.12 B-J 0313A	A-32/04	1G31-1RWUM-6-D-10-A-LD LONG SEAM WELD EXTENDING DOWNSTREAM	PT-H-600/2 UT-H-400/9	133-H	S90H1P055 S90H1C137 S90H1U297	NI UT CAL SHEET MRI	N/A
B9.12 B-J 0313A	A-32/04	1G31-1RWUM-6-D-10-A-LU LONG SEAM WELD EXTENDING UPSTREAM	PT-H-600/2 UT-H-400/9	133-H	S90H1P059 S90H1C138 S90H1U298	NI UT CAL SHEET MRI	N/A
<u>VALVE BOLTING</u>							
B7.70 B-G-2	A-4A/00	B21-F022A VALVE BOLTING	VT-H-710/2	N/A	S90H1V371	SAT	N/A
B7.70 B-G-2	A-8/07	B21-F032A VALVE BOLTING	VT-H-710/2	N/A	S90H1V289	SAT	N/A
B7.70 B-G-2	A-9/06	B21-F032B VALVE BOLTING	VT-H-710/2	N/A	S90H1V288	SAT	N/A



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<u>ASME SECTION XI</u>	<u>EXAM FIGURE NO.</u>	<u>EXAMINATION/AREA</u>	<u>EXAMINATION PROCEDURE</u>	<u>CAL BLOCK</u>	<u>EXAM/CAL SHEET NO.</u>	<u>RESULTS</u>	<u>REMARKS</u>
<u>VALVE BOLTING</u>							
B7.70 B-G-2	A-26/03	E21-F005A VALVE BOLTING	VT-H-710/2	N/A	S90H1V297	SAT	N/A
B7.70 B-G-2	A-27/03	E21-F005B VALVE BOLTING	VT-H-710/2	N/A	S90H1V287	SAT	N/A
B7.70 B-G-2	A-26/03	E21-F006A VALVE BOLTING	VT-H-710/2	N/A	S90H1V317	SAT	N/A
B7.70 B-G-2	A-27/03	E21-F006B VALVE BOLTING	VT-H-710/2	N/A	S90H1V316	SAT	N/A
B7.70 B-G-2	A-26/03	E21-F007A VALVE BOLTING	VT-H-710/2	N/A	S90H1V318	SAT	N/A
B7.70 B-G-2	A-27/03	E21-F007B VALVE BOLTING	VT-H-710/2	N/A	S90H1V315	SAT	N/A
B7.70 B-G-2	A-28/03	E41-F002 VALVE BOLTING	VT-H-710/2	N/A	S90H1V291	SAT	N/A
B7.70 B-G-2	A-28/03	E41-F003 VALVE BOLTING	VT-H-710/2	N/A	S90H1V370	SAT	N/A
B7.70 B-G-2	A-29/04	E41-F006 VALVE BOLTING	VT-H-710/2	N/A	S90H1V285	SAT	N/A

E.I. HATCH UNIT - SPRING 1990 REFUELING OUTAGE  
CLASS 1 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	C/L BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
B7.70 B-G-2	A-29A/02	E41-F203 VALVE BOLTING	VT-H-710/2	N/A	S90H1V369	SAT	N/A
B7.70 B-G-2	A-30/03	E51-F007 VALVE BOLTING	VT-H-710/2	N/A	S90H1V286	SAT	N/A
B7.70 B-G-2	A-30/03	E51-F008 VALVE BOLTING	VT-H-710/2	N/A	S90H1V368	SAT	N/A
B7.70 B-G-2	A-31/04	E51-F013 VALVE BOLTING	VT-H-710/2	N/A	S90H1V284	SAT	N/A

Visual Examination of Class 1  
CRD Bolting

ASME Section XI requires examination of the CRD Housings (bolts, studs and nuts) whenever the housings are disassembled. Twenty (20) CRDs were replaced during the outage which facilitated visual examination (VT-1) of the bolts, studs and nuts. The subject examinations were performed by GPC Q.C. personnel in conjunction with the CRD maintenance/replacement activities. Listed below are the CRDs which were examined. All of these CRDs were replaced per MWO 1-89-6852. \*

18-03	14-15
46-23	02-35
38-39	06-19
42-11	06-35
50-27	42-19
34-43	22-39
06-15	34-47
14-39	26-51
06-23	22-47
50-31	22-51

\* This MWO did not require ANII initial or final review.



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 1990 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 (1B21), and Residual Heat Removal (1E11). Listed below are the valves examined and a brief summary of the results.

<u>VALVE NUMBER</u>	<u>MWO NUMBER</u>	<u>REMARKS</u>
1E11-F017B	1-89-7115	Weld build up required on guide ribs
1E11-F050B	1-89-5053	Disassembled due to LLRT failure
1B21-F032B	1-89-5058 *	Acceptable
1B21-F010B	1-89-5057	Acceptable
1B21-F022C	1-90-1584	Disassembled due to LLRT failure
1E11-F017A	1-89-7117	Weld build up required on guide ribs
1B21-F013G	1-89-6640	This SRV body was removed and shipped to Wyle Labs for inspection

\* This MWO did not require ANII initial or final review

SUMMARY  
OF  
CLASS 2 EXAMINATIONS

E. I. MATCH UNIT 1 SPRING 1990 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	B-46/03	1E11-28HR-24A-BP-11 PIPE TO FLANGE	MT-H-500/4 UT-H-400/9	139-H	S90H1M002 S90H1C018 110064 S90H1C019 S90H1U065	MT UT CAL SHEET MT UT CAL SHEET RI GEOMETRY	ONE-SIDED EXAM DUE TO FLANGE CONFIGURATION.
C5.21 C-F	B-50/03	1E11-28HR-24A-R-4 ELBOW TO PIPE	MT-H-500/4 UT-H-400/9	139-H	S90H1M009 S90H1C286 S90H1U613 S90H1U616	MT UT CAL SHEET MT WELD PROFILE	N/A
C5.11 C-F	B-9/03	1E21-2CS-10B-2 PIPE TO FLANGE	MT-H-500/4	N/A	S90H1M079	MT	N/A
C9.11 B-J	B-9/03	1E21-2CS-10B-5 VALVE TO PIPE	MT-H-500/4 UT-H-400/9	137-H	S90H1M080 S90H1C268 S90H1U579 S90H1C269 S90H1U580 S90H1U581	MT UT CAL SHEET MT UT CAL SHEET MT WELD PROFILE	LIMITED EXAM DUE TO VALVE AND INSTRUMENT LINE INTERFERENCE.
C5.11 C-F	B-4/02	1E21-2CS-12A-18 ELBOW TO PIPE	MT-H-500/4	N/A	S90H1M028	MT	N/A
C5.11 C-F	B-2/03	1E21-2CS-16A-TS-16 VALVE TO PIPE	MT-H-500/4	N/A	S90H1M014	MT	N/A

CORE SPRAY SYSTEM



E.1. MATCH UNIT 1 SPRING 1990 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FLUORE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
CORE SPRAY SYSTEM							
C5.11 C-F	B-17/02	1E21-2CS-16B-TS-16 PIPE TO TEE	MT-H-500/4	N/A	SPOH1M021 SPOH1M029	RT LINEAR NT	LINEAR INDICATIONS, REMOVED BY FLAPPING.
HIGH PRESSURE COOLANT INJECTION SYSTEM							
C5.21 C-F	B-22/03	1E41-2HPC1-10-SS-9 TEE TO PIPE	MT-H-500/4 UT-H-400/9	137-H	SPOH1M093 SPOH1M094 SPOH1C273 SPOH1U602 SPOH1U603 SPOH1C282 SPOH1U601	RT LINEAR NRI UT CAL SHEET NRI WELD PROFILE UT CAL SHEET NRI	LINEAR RT INDICATIONS, REMOVED BY FLAPPING. LIMITED EXAM DUE TO TEE CONFIGURATION.
C5.21 C-F	B-20/03	1E41-2HPC1-10-SS-12 ELBOW TO PIPE	MT-H-500/4 UT-H-400/9	137-H	SPOH1M087 SPOH1C273 SPOH1U588	NRI UT CAL SHEET NRI	N/A
C5.11 C-F	B-23/02	1E41-2HPC1-12-PC-3 ELBOW TO PIPE	MT-H-500/4	N/A	SPOH1M018	NI	N/A
C5.21 C-F	B-11/03	1E41-2HPC1-14-R-24 ELBOW TO PIPE	MT-H-500/4 UT-H-400/9	63-H	SPOH1M092 SPOH1C274 SPOH1U590 SPOH1U591	NRI UT CAL SHEET NRI WELD PROFILE	N/A
C5.11 C-F	B-17/02	1E41-2HPC1-16-RD-2 PIPE TO ELBOW	MT-H-500/4	N/A	SPOH1M001	NI	N/A

E-1. MATCH UNIT 1 SPRING 1990 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	B-15/03	1E41-2HPC1-20-TD-6 ELBOW TO PIPE	MT-H-500/4	N/A	S90H1M088	NR1	N/A
C5.11 C-F	B-16/03	1E41-2HPC1-24-TD-3 ELBOW TO PIPE	MT-H-500/4	N/A	S90H1M091	NR1	N/A
<u>REACTOR CORE ISOLATION COOLING SYSTEM</u>							
C5.11 C-F	B-24/03	1E51-2RC1C-10-TD-2 CAP TO PIPE	MT-H-500/4	N/A	S90H1M019 S90H1M027	RI LINEAR NR1	LINEAR INDICATION, REMOVED BY FLAPPING.
C5.11 C-F	B-25/03	1E51-2RC1C-10-TD-19 PIPE TO TEE	MT-H-500/4	N/A	S90H1M089	NR1	N/A
C5.11 C-F	B-25/03	1E51-2RC1C-10-TD-25 VALVE TO ELBOW	MT-H-500/4	N/A	S90H1M004	NI	N/A
<u>MAIN STEAM AUXILIARY SYSTEM</u>							
C5.11 C-F	B-77/04	1N11-2MSA-6-SJAE-3 PIPE TO VALVE	MT-H-500/4	N/A	S90H1M082	NR1	N/A
C5.21 C-F	B-79/04	1N11-2MSAR-10C-SSR-4 PIPE TO VALVE	MT-H-500/4 UT-H-400/9	137-H	S90H1M102 S90H1C322 S90H1U722 S90H1C321 S90H1U721 S90H1C320 S90H1U720	NR1 NR1 NR1 NR1 NR1 NR1	ORIGINAL WELD WAS CUT OUT AND REPLACED. BASELINE EXAM WAS PERFORMED AS REQUIRED BY SITE REPAIR/REPLACEMENT PROCEDURE 42EN-ENG-014-05. ONE-SIDED EXAM.

E.I. MATCH UNIT 1 SPRING 1990 REVUELING 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	B-78/03	1N11-2MSA-24B-SSR-2 ELBOW TO TEE	MT-H-500/4 UT-H-400/9	116-H	S90H1M030 S90H1C155 S90H1U333 S90H1U334	NT UT CAL SHEET NRI WELD PROFILE	N/A
C3.40 C-C	B-74/04	1N11-2MSA-24A-5PL-1 THRU B DEVICE N11-MSH-59	MT-H-500/4	N/A	S90H1M100 S90H1M101	RT LINEAR NT	MT RECORDED 2 LINEAR INDICATIONS. REMOVED BY FLAPPING.
C3.40 C-C	B-74/04	1N11-2MSA-24A-8PS-1 AND 2 DEVICE N11-MSH-20	MT-H-500/4	N/A	S90H1M096	NRI	N/A
C5.21 C-F	B-74/04	1N11-2MSA-24A-10 ELBOW TO PIPE	MT-H-500/4 UT-H-400/9	147-H	S90H1M097 S90H1C205 S90H1U617 S90H1U618	NRI UT CAL SHEET NRI WELD PROFILE	N/A
C3.40 C-C	B-75/04	1N11-2MSA-24B-5APS-1A AND 2A DEVICE N11-MSH-27	PT-H-600/2	N/A	S90H1P170	NRI	N/A
C3.40 C-C	B-76/04	1N11-2MSA-24C-7PS DEVICE N11-MSH-2	MT-H-500/4	N/A	S90H1M099	NRI	N/A
C3.40 C-C	B-76/04	1N11-2MSA-24C-9PS DEVICE N11-MSH-3	MT-H-500/4	N/A	S90H1M098	NRI	N/A



E.I. HATCH UNIT 1 SPRING 1990 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>							
C3.40 C-C	B-76/04	1N11-2MSA-24C-18PS-1 AND 2 DEVICE N11-MSH-36	MT-H-500/4	N/A	S90H1M008	NR1	LIMITED EXAM DUE TO PIPE CLAMP
C5.21 C-F	B-76/04	1N11-2MSA-24C-19 PIPE TO VALVE	MT-H-500/4 UT-H-400/9	14.7-H	S90H1M007 S90H1C020 S90H1U046 S90H1C021 S90H1U047	NR1 UT CAL SHEET RI GEOMETRY UT CAL SHEET RI GEOMETRY	LIMITED EXAM DUE TO VALVE AND WELDED ATTACHMENTS.
<u>TURBINE STEAM BYPASS SYSTEM</u>							
C3.40 C-C	B-80/03	1N37-2TSB-16A-3PS DEVICE N11-TBH-25	MT-H-500/4	N/A	S90H1M074	NR1	N/A
C5.21 C-F	B-80/03	1N37-2TSB-16A-4 PIPE TO ELBOW	MT-H-500/4 UT-H-400/9	B2-H	S90H1M073 S90H1C230 S90H1U469 S90H1U470	NR1 UT CAL SHEET RI GEOMETRY WELD PROFILE	N/A
C3.40 C-C	B-80/03	1N37-2TSB-16A-9HL DEVICE N11-TBH-36	MT-H-500/4	N/A	S90H1M072	NR1	N/A
C3.40 C-C	B-80/03	1N37-2TSB-16AB-3PS DEVICE N11-TBH-24	MT-H-500/4	N/A	S90H1M071	NR1	N/A
C3.40 C-C	B-81/02	1N37-2TSB-16B-8PS DEVICE N11-TBH-23	MT-H-500/4	N/A	S90H1M070	NR1	N/A

E.I. HATCH UNIT 1 SPRING 1990 REFUELING OUTAGE  
CLASS 2 COMPONENTS

ASME SECTION XI	EXAM FIGURE NO.	EXAMINATION/AREA	EXAMINATION PROCEDURE	CAL BLOCK	EXAM/CAL SHEET NO.	RESULTS	REMARKS
<u>TURBINE STEAM BYPASS SYSTEM</u>							
C3.40 C-C	B-81/P2	1N37-2TSB-168-12HL DEVICE M11-TBH-36	MT-H-500/4	N/A	S90H1M048	NR1	N/A
C5.21 C-F	B-81/O2	1N37-2TSB-168B-2 PIPE TO ELBOW	MT-H-500/4 UT-H-400/9	B2-H	S90H1M069 S90H1C221 S90H1U471 S90H1U472	NR1 UT CAL SHEET R1 GEOMETRY WELD PROFILE	N/A
<u>CONTAINMENT PERGE AND INERTING SYSTEM</u>							
C5.11 C-F	B-30/04	1148-2CPI-6-SV0-7 PIPE TO ELBOW	MT-H-500/4	N/A	S90H1M006	NI	N/A
C5.11 C-F	B-31/03	1148-2CPI-6-SVT-6 PIPE TO ELBOW	MT-H-500/4	N/A	S90H1M005	NI	N/A
C5.11 C-F	B-37/03	1148-2CPI-18-P10-2 ELBOW TO ELBOW	MT-H-500/4	N/A	S90H1M003	NI	N/A
<u>REACTOR WATER CLEANUP SYSTEM</u>							
-- -- 0619	B-83/05	1G31-2RWCU-4-R-3A TEE TO PIPE	UT-H-400/9	142-H	S90H1C275 S90H1U592 S90H1C277 S90H1U594	NR1 UT CAL SHEET UT CAL SHEET NR1	ONE-SIDED EXAM DUE TO TEE CONFIGURATION.
-- -- 0619	B-83/05	1G31-2RWCU-4-R-4C PIPE TO PIPE	UT-H-400/9	142-H	S90H1C276 S90H1U593	NR1 UT CAL SHEET	N/A

SUMMARY  
OF  
CLASS 1, 2, AND 3 PRESSURE TESTS



## PRESSURE TESTING

This section of the report provides a discussion of the pressure tests which were performed during the 1990 Plant E.I. Hatch Unit 1 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 Company Services.

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

### CLASS 1 PRESSURE TESTS

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

#### 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>
1B21-LT-1	42IT-TET-006-1S	1-89-5977

### CLASS 2 PRESSURE TESTS

Three (3) 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.

One (1) Class 2 Functional Test was 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 was repaired.

### CLASS 2 SUMMARY

<u>TEST I.D.</u>	<u>PROCEDURE</u>	<u>MWO NUMBER</u>
1E11-HT-12	42IT-TET-003-0S	1-89-6611
1N11-HT-1	42IT-TET-003-0S	1-89-5976
1P41-HT-7	42IT-TET-003-0S	*1-89-6902
1E41-FT-1	42IT-TET-004-0S	None Required

\*Performed after implementing Design Change Request (DCR) 88-270 by DCR Implementation Group.

### CLASS 3 PRESSURE TESTS

Twelve (12) Class 3 hydrostatic pressure tests were performed during the outage per ASME Section XI, paragraph IWA-5211(d), in accordance with GPC procedure 42IT-TET-003-0S, Hydrostatic Pressure Testing of Piping and Components. Credit is taken for two (2) additional hydrostatic tests which were added to the pressure test program and were performed in 1984 (the 3rd period of the 1st interval) after implementing DCR 80-183. These tests are now identified as 1P41-HT-5A and 1P41-HT-6B.

One (1) Class 3 Inservice Test was performed during this outage per ASME Section XI, paragraph IWA-5211(c), in accordance with GPC procedure 42IT-TET-004-0S, Operating Pressure Testing of Piping and Components.

Eleven (11) Class 3 Air Tests were performed during this outage, as required per ASME Section XI, paragraph IWD-5223(f). These test involve testing of the Main Steam Safety Relief Valve Discharge Piping. The test was performed in accordance with GPC procedure 42IT-TET-005-0S, Pneumatic Pressure Testing of Piping and Components. GPC procedure 42SP-091889-OP-1-0S was developed which utilized an ultrasonic leak detection probe to perform the examination. This procedure was demonstrated to the satisfaction of the ANII prior to the examination.

## TEST RESULTS

One (1) component failure was found during hydrostatic test 1P41-HT-9. The Plant Service Water (PSW) side of RHR and Core Spray Pump Room Cooler 1T41-B002A failed during the initial pressurization. The cause of the failure was due to corrosion of the structural supports (studs) which hold the water box cover on from the inside of the pressure boundary. Deficiency Card 1-90-1557 was written and the component was repaired per MWO 1-90-2110 and was then re-tested and determined to be acceptable. All of the other coolers of this type within the ISI boundary were examined during this outage with acceptable results.

For the other pressure tests, 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>
1E11-HT-SW3	42IT-TET-003-OS	1-89-6612
1E11-HT-SW4	42IT-TET-003-OS	1-89-6613
1P41-HT-5A	42IT-TET-003-OS	1-89-6621
1P41-HT-5B	42IT-TET-003-OS	1-89-6623
1P41-HT-5C	42IT-TET-003-OS	1-89-6624
1P41-HT-6A	42IT-TET-003-OS	1-84-5910
1P41-HT-6B	42IT-TET-003-OS	1-84-5910
1P41-HT-8A	42IT-TET-003-OS	1-89-6618
1P41-HT-8B	42IT-TET-003-OS	1-89-6619
1P41-HT-8C	42IT-TET-003-OS	1-89-6618
1P41-HT-8D	42IT-TET-003-OS	1-89-6619
1P41-HT-9	42IT-TET-003-OS	1-89-6616
1P41-HT-10	42IT-TET-003-OS	1-89-6617
1P41-HT-11	42IT-TET-003-OS	1-89-6615
1G41-IT-1	42IT-TET-004-OS	NOT REQUIRED
1B21-AT-A THRU L (11 TESTS)	42IT-TET-005-OS	1-89-6610



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 SCS Procedure VT-H-730 (VT-3). The procedure and all examination data sheets are available for review at the plant site.

### Examinations

#### Class 1

Thirty-nine (39) component supports from the B21, B31, E11, E21 and E51 Systems were visually examined. Six (6) unacceptable indications were detected.

#### Class 2

One-hundred sixty-three (163) component supports from the C11, E11, E21, E41, E51, 1N11, 1N37 and 1T48 systems were visually examined. Thirty (30) of these Class 2 component supports were found unacceptable.

#### Class 3

One hundred-one (101) component supports from the B21, E11, and P41 systems were visually examined. Nineteen (19) 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.

## 1990 E.I. HATCH UNIT 1 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
1	1B21-HA1	A-4/04	SPRING	A	S90H1V167	N/A				
1	1B21-HA2	A-4/04	SPRING	A	S90H1V268	N/A				
1	1B21-HA3	A-4/04	SPRING	A	S90H1V267	N/A				
1	1B21-GA1	A-4A/00	ANCHOR	A	S90H1V256	N/A				
1	1B21-SS6	A-5/05	SNUBBER	A	S90H1V251	N/A				
1	1B21-SS7	A-5/05	SNUBBER	A	S90H1V248	N/A				
1	1B21-HC1	A-6/05	SPRING	A	S90H1V168	N/A				
1	1B21-HC2	A-6/05	SPRING	A	S90H1V250	N/A				
1	1B21-HC3	A-6/05	SPRING	A	S90H1V169	N/A				
1	1B21-SS23	A-6/05	SNUBBER	A	S90H1V249	N/A				
1	1B21-GC1	A-6A/00	ANCHOR	A	S90H1V255	N/A				
1	1B21-FDH-3	A-10/04	SPRING	A	S90H1V166	N/A				
1	1B21-FDH-701	A-10/04	SNUBBER	A	S90H1V257	N/A				
1	1B21-FDH-21	A-11/04	MECHANICAL SNUBBER	A	S90H1V343	N/A				
1	1B31-HA1	A-14/04	SPRING	U	S90H1V379	190H1046	1-90-3713	A	S90H1V387	IMPROPER SPRING CAN SETTING, TOP OF SPRING CAN IS IN CONTACT WITH WELDED BEAM ATTACHMENT
1	1B31-HA5	A-14A/00	SPRING	A	S90H1V383	N/A				
1	1B31-HA6	A-14A/00	SPRING	A	S90H1V384	N/A				
1	1B31-HA7	A-14A/00	SPRING	U	S90H1V385	190H1046	N/A			BOTH CANS ARE DENTED ACCEPTABLE AS IS
1	1B31-HA2	A-14B/00	SPRING	A	S90H1V380	N/A				



## 1990 E.I. HATCH UNIT 1 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
1	1B31-HB1	A-15/04	SPRING	U	S90H1V334	190H1042	1-90-3396	A	S90H1V372	IMPROPER SPRING CAN SETTING
1	1B31-HB5	A-15A/00	SPRING	A	S90H1V338	N/A				
1	1B31-HB6	A-15A/00	SPRING	A	S90H1V339	N/A				
1	1B31-HB7	A-15A/00	SPRING	A	S90H1V340	N/A				
1	1B31-HB2	A-15B/00	SPRING	U	S90H1V335	190H1042	1-90-3397	A	S90H1V373	IMPROPER SPRING CAN SETTING
1	1B31-HA3	A-16/02	SPRING	A	S90H1V381	N/A				
1	1B31-HA4	A-16/02	SPRING	A	S90H1V382	N/A				
1	1B31-HB3	A-17/02	SPRING	A	S90H1V336	N/A				
1	1B31-HB4	A-17/02	SPRING	A	S90H1V337	N/A				
1	1E11-U1	A-23/02	ANCHOR	A	S90H1V229	N/A				
1	1E11-U1	A-24/03	ANCHOR	A	S90H1V246	N/A				
1	1E21-CSH-39	A-26/03	SPRING	A	S90H1V170	N/A				
1	1E21-CSH-40	A-26/03	SPRING	A	S90H1V171	N/A				
1	1E21-X-16B	A-27/03	ANCHOR	A	S90H1V224	N/A				
1	1E51-RCSEH-18	A-30/03	SPRING	U	S90H1V172	190H1021	1-90-2498	A	S90H1V266	IMPROPER SPRING CAN SETTING
1	1E51-RCSEH-19	A-30/03	SPRING	A	S90H1V173	N/A				
1	1E51-SS-41	A-30/03	SNUBBER	A	S90H1V252	N/A				
1	1E51-SS-42	A-30/03	HYDRAULIC SNUBBER	U	S90H1V342	190H1043	1-90-3404	A	S90H1V388	BENT STRUT, LOOSE BOLT
1	1E51-SS-43	A-30/03	SNUBBER	A	S90H1V247	N/A				
1	1E51-SS-44	A-30/03	SNUBBER	A	S90H1V253	N/A				
2	1E21-CSH-18	B-2/03	SPRING	A	S90H1V094	N/A				

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ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	1E41-HPSEH-6	B-15/03	SIMPLE	A	S90H1V232	N/A				
2	1E41-HPSEH-8	B-15/03	SNUBBER	U	S90H1V182	190H1023	1-90-2726	A	S90H1V319	LOOSE NUT
2	1E41-HPSEH-9	B-15/03	SIMPLE	A	S90H1V346	N/A				
2	1E41-HPSEH-10	B-15/03	SPRING	U	S90H1V202	190H1021	1-90-2499	A	S90H1V264	IMPROPER SPRING CAN SETTING
2	1E41-HPSEH-88	B-15/03	SNUBBER	A	S90H1V183	N/A				
2	1E41-HPSEH-14	B-16/03	SIMPLE	A	S90H1V270	N/A				
2	1E41-HPSEH-16	B-17/02	SIMPLE	A	S90H1V203	N/A				
2	1E41-HPSEH-89	B-17/02	SNUBBER	A	S90H1V095	N/A				
2	1E41-HPSEH-54	B-20/03	SPRING	A	S90H1V185	N/A				
2	1E41-HPSEH-55	B-20/03	SNUBBER	A	S90H1V184	N/A				
2	1E41-HPSEH-94	B-20/03	SPRING	U	S90H1V352	190H1042	1-90-3396	A	S90H1V376	LOOSE NUTS
2	1E51-RCSEH-7	B-25/03	SIMPLE	A	S90H1V057	N/A				
2	1E51-RCSEH-4A	B-25/03	SPRING	A	S90H1V054	N/A				
2	1E51-RCSEH-5	B-25/03	SPRING	A	S90H1V053	N/A				
2	1E51-RCSEH-21	B-25/03	SNUBBER	A	S90H1V055	N/A				
2	1E51-RCSEH-22	B-25/03	SIMPLE	U	S90H1V056	190H1005	N/A			SPHERICAL BEARING FROZEN ACCEPTABLE AS IS
2	1T48-CPH-54	B-27/03	SPRING	A	S90H1V048	N/A				
2	1T48-CPH-35	B-30/04	SIMPLE	A	S90H1V079	N/A				
2	1T48-CPH-36	B-30/04	SIMPLE	A	S90H1V080	N/A				
2	1T48-CPH-37	B-30/04	SIMPLE	A	S90H1V050	N/A				

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ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	1T48-CPH-38	B-30/04	SIMPLE	A	S90H1V049	N/A				
2	1T48-CPH-39	B-30/04	SIMPLE	U	S90H1V045	190H1005	N/A			SPHERICAL BEARINGS FROZEN ACCEPTABLE AS IS
2	1T48-CPH-40	B-30/04	SNUBBER	A	S90H1V046	N/A				
2	1T48-CPH-55	B-30/04	SNUBBER	A	S90H1V047	N/A				
2	1E11-RHRH-39	B-44/03	SPRING	A	S90H1V244	N/A				
2	1E11-RHRH-53A	B-46/03	SPRING	A	S90H1V085	N/A				
2	1E11-RHRH-223	B-46/03	SNUBBER	A	S90H1V345	N/A				
2	1E11-RHRH-224	B-46/03	SNUBBER	U	S90H1V097	190H1017	1-90-2400	A	S90H1V230	LOOSE NUTS
2	1E11-RHRH-226	B-46/03	SNUBBER	U	S90H1V344	190H1043	1-90-3405	A	S90H1V367	LOOSE LOCKNUT
2	1E11-RHR-192A	B-49A/00	SIMPLE	A	S90H1V314	N/A				
2	1E11-RHR-H182	B-49A/00	SIMPLE	A	S90H1V177	N/A				
2	1E11-RHR-H183	B-49A/00	SIMPLE	A	S90H1V313	N/A				
2	1E11-RHRH-374	B-53/03	SIMPLE	A	S90H1V240	N/A				
2	1E11-RHR-262	B-59/02	SIMPLE	A	S90H1V178	N/A				
2	1E11-RHRH-279	B-60/03	SNUBBER	A	S90H1V096	N/A				
2	1E11-RHRH-240	B-62/03	SNUBBER	A	S90H1V320	N/A				
2	1E11-RHRH-242	B-62/03	SNUBBER	A	S90H1V364	N/A				
2	1E11-RHRH-399	B-62/03	SNUBBER	U	S90H1V366	190H1044	1-90-3434	A	S90H1V377	LOOSE BOLT ON PIPE CLAMP
2	1E11-RHRH-243	B-70/02	SIMPLE	A	S90H1V363	N/A				
2	1E11-RHRH-400	B-70/02	SNUBBER	U	S90H1V323	190H1042	1-90-3433	A	S90H1V378	LOOSE NUTS



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ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	1E11-RHRH-336	3-70A/00	SIMPLE	A	S90H1V293	N/A				
2	1N11-AA-1	B-74/04	ANCHOR	A	S90H1V350	N/A				
2	1N11-MSH-18	B-74/04	SPRING	A	S90H1V261	N/A				
2	1N11-MSH-20	B-74/04	SNUBBER	A	S90H1V308	N/A				
2	1N11-MSH-24	B-74/04	SIMPLE	A	S90H1V307	N/A				
2	1N11-MSH-38	B-74/04	SNUBBER	A	S90H1V282	N/A				
2	1N11-MSH-57	B-74/04	SPRING	A	S90H1V279	N/A				
2	1N11-MSH-59	B-74/04	SNUBBER	A	S90H1V306	N/A				
2	1N11-AB-1	B-75/04	ANCHOR	A	S90H1V349	N/A				
2	1N11-MSH-26	B-75/04	SPRING	A	S90H1V290	N/A				
2	1N11-MSH-27	B-75/04	SIMPLE	A	S90H1V309	N/A				
2	1N11-MSH-30	B-75/04	SNUBBER	A	S90H1V312	N/A				
2	1N11-MSH-32	B-75/04	SIMPLE	A	S90H1V030	N/A				
2	1N11-MSH-33	B-75/04	SNUBBER	A	S90H1V031	N/A				
2	1N11-MSH-35	B-75/04	SIMPLE	A	S90H1V311	N/A				
2	1N11-MSH-39	B-75/04	SNUBBER	A	S90H1V310	N/A				
2	1N11-MSH-40	B-75/04	SNUBBER	A	S90H1V211	N/A				
2	1N11-MSH-58	B-75/04	SPRING	U	S90H1V212	190H1023	1-90-2723	A	S90H1V329	IMPROPER SPRING CAN SETTING
2	1N11-AC-1	B-76/04	ANCHOR	U	S90H1V347	190H1039	1-90-3249	A	S90H1V374	LOOSE BOLTING
2	1N11-MSH-1	B-76/04	SPRING	U	S90H1V260	190H1031	1-90-2792	A	S90H1V325	LOOSE BOLTING
2	1N11-MSH-2	B-76/04	SIMPLE	A	S90H1V300	N/A				

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ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	1N11-MSH-3	B-76/04	SIMPLE	A	S90H1V299	N/A				
2	1N11-MSH-5	B-76/04	SIMPLE	A	S90H1V305	N/A				
2	1N11-MSH-7	B-76/04	SIMPLE	U	S90H1V216	190H1023	1-90-2723	A	S90H1V357	LOOSE NUT
2	1N11-MSH-36	B-76/04	SNUBBER	A	S90H1V283	N/A				
2	1N11-MSH-55	B-76/04	SPRING	A	S90H1V280	N/A				
2	1N11-AD-1	B-77/04	ANCHOR	A	S90H1V348	N/A				
2	1N11-MSH-10	B-77/04	SPRING	A	S90H1V259	N/A				
2	1N11-MSH-11	B-77/04	SIMPLE	A	S90H1V301	N/A				
2	1N11-MSH-13	B-77/04	SIMPLE	A	S90H1V302	N/A				
2	1N11-MSH-14	B-77/04	SNUBBER	A	S90H1V304	N/A				
2	1N11-MSH-15	B-77/04	SIMPLE	A	S90H1V303	N/A				
2	1N11-MSH-16	B-77/04	SIMPLE	A	S90H1V278	N/A				
2	1N11-MSH-37	B-77/04	SNUBBER	A	S90H1V281	N/A				
2	1N11-MSH-56	B-77/04	SPRING	U	S90H1V210	190H1023	1-90-2723	A	S90H1V362	IMPROPER SPRING CAN SETTING
2	1N11-MSH-700	B-77/04	SIMPLE	A	S90H1V032	N/A				
2	1N37-N11-TBH-24	B-80/03	SIMPLE	A	S90H1V275	N/A				
2	1N37-N11-TBH-25	B-80/03	SIMPLE	A	S90H1V220	N/A				
2	1N37-N11-TBH-26	B-80/03	SIMPLE	U	S90H1V219	190H1023	1-90-2723	A	S90H1V354	LOOSE NUTS
2	1N37-N11-TBH-27	B-80/03	SIMPLE	A	S90H1V276	N/A				
2	1N37-N11-TBH-28	B-80/03	SIMPLE	A	S90H1V277	N/A				
2	1N37-N11-TBH-32	B-80/03	SNUBBER	A	S90H1V221	N/A				

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ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	1N37-N11-TBH-33	B-80/03	SNUBBER	A	S90H1V222	N/A				
2	1N37-N11-TBH-34	B-80/03	SIMPLE	U	S90H1V218	190H1023	1-90-2723	A	S90H1V358	MISALIGNED STRUT
2	1N37-N11-TBH-35	B-80/03	SIMPLE	A	S90H1V217	N/A				
2	1N37-N11-TBH-30	B-81/02	SNUBBER	U	S90H1V215	190H1032	1-90-2791	A	S90H1V330	FROZEN SPHERICAL BEARING
2	1N37-N11-TBH-31	B-81/02	SIMPLE	A	S90H1V214	N/A				
2	1N37-N11-TBH-36	B-81/02	SIMPLE	A	S90H1V213	N/A				
2	1C11-C11-SK2-H16	B-84/02	SIMPLE	A	S90H1V019	N/A				
2	1C11-C11-SK2-H17	B-84/02	SIMPLE	A	S90H1V020	N/A				
2	1C11-C11-SK2-H18	B-84/02	SIMPLE	A	S90H1V021	N/A				
2	1C11-C11-SK2-H19	B-84/02	SIMPLE	A	S90H1V022	N/A				
2	1C11-C11-SK2-H20	B-84/02	SIMPLE	A	S90H1V023	N/A				
2	1C11-C11-SK2-H21	B-84/02	SIMPLE	A	S90H1V024	N/A				
2	1C11-C11-SK2-H22	B-84/02	SIMPLE	A	S90H1V025	N/A				
2	1C11-C11-SK2-H24	B-84/02	SIMPLE	A	S90H1V026	N/A				
2	1C11-C11-SK2-H25	B-84/02	SIMPLE	A	S90H1V027	N/A				
2	1C11-C11-SK2-H26	B-84/02	SIMPLE	A	S90H1V028	N/A				
2	1C11-C11-SK2-H61A	B-84/02	SIMPLE	A	S90H1V029	N/A				
2	1E11-RHRH-268	B-88C/00	SIMPLE	*		N/A				* PERFORMED BY GPC QC FOR 79-14 MODIFICATION
2	1E11-RHRH-270	B-88C/00	SIMPLE	A	S90H1V086	N/A				
2	1E51-RCICH-17	B-89/04	SIMPLE	A	S90H1V206	N/A				



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ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	1E51-RCICH-16A	B-89/04	SIMPLE	A	S90H1V207	N/A				
2	1E51-RCICH-701	B-89/04	SNUBBERS	A	S90H1V091	N/A				
2	1E51-RCSE-H7	B-95/01	SIMPLE	A	S90H1V036	N/A				
2	1E51-RCSE-H8	B-95/01	SPRING	A	S90H1V034	N/A				
2	1E51-RCSE-H11	B-95/01	SPRING	A	S90H1V061	N/A				
2	1E51-RCSE-H24	B-95/01	SIMPLE	A	S90H1V035	N/A				
2	1E51-RCSE-H701	B-95/01	SIMPLE	A	S90H1V234	N/A				
2	1E51-RCSE-H702	B-95/01	SNUBBER	A	S90H1V062	N/A				
2	1E51-RCSE-H703	B-95/01	SNUBBER	A	S90H1V273	N/A				
2	1E51-RCSE-H12	B-96/00	SIMPLE	U	S90H1V052	190H1005	N/A			WOOD JAMMED INTO SUPPORT ACCEPTABLE AS IS
2	1E51-RCSE-H15	B-96/00	SPRING	U	S90H1V044	190H1023	1-90-2725	A	S90H1V326	IMPROPER SPRING CAN SETTING
2	1E51-RCSE-H25	B-96/00	SPRING	U	S90H1V162	190H1022	1-90-2050	A	S90H1V223	LOOSE BOLTS IMPROPER SPRING CAN SETTING
2	1E51-RCSE-H25	B-96/00	SPRING	U	S90H1V040	190H1003	1-90-2118			SEE INF 190H1022
2	1E51-RCSE-H700	B-96/00	SIMPLE	A	S90H1V038	N/A				
2	1E51-RCSE-H704	B-96/00	SNUBBER	A	S90H1V051	N/A				
2	1E51-RCSE-H705	B-96/00	SNUBBER	A	S90H1V037	N/A				
2	1E51-RCSE-H706	B-96/00	SIMPLE	U	S90H1V039	190H1003	1-90-2050	A	S90H1V163	LOOSE NUTS
2	1E51-RCSE-H708	B-96/00	SIMPLE	A	S90H1V043	N/A				
2	1E51-RCSE-H711	B-96/00	SNUBBER	A	S90H1V042	N/A				
2	1E51-RCSE-H713	B-96/00	SNUBBER	A	S90H1V041	N/A				

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ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	1E51-RCSE-H807	B-96/00	SPRING	A	S90H1V242	N/A				
2	1E41-UI	B-97/00	SIMPLE	A	S90H1V157	N/A				
2	1E41-UI	B-97/00	SIMPLE	A	S90H1V156	N/A				
2	1E41-UI	B-98/00	SIMPLE	A	S90H1V161	N/A				
2	1E41-UI	B-98/00	SIMPLE	A	S90H1V159	N/A				
2	1E41-UI	B-98/00	SIMPLE	A	S90H1V158	N/A				
2	1E41-UI	B-98/00	SIMPLE	A	S90H1V160	N/A				
2	1E51-RCIC-H18	B-99/00	SPRING	U	S90H1V164	190H1030	1-90-2795	A	S90H1V365	IMPROPER LOAD SETTING
2	1E51-RCIC-H18A	B-99/00	SIMPLE	A	S90H1V165	N/A				
2	1E51-RCIC-H19	B-99/00	SIMPLE	A	S90H1V292	N/A				
2	1E51-RCIC-H21	B-99/00	SIMPLE	A	S90H1V272	N/A				
2	1E51-RCIC-H21A	B-99/00	SIMPLE	A	S90H1V271	N/A				
2	1E51-RCIC-H22	B-99/00	SIMPLE	A	S90H1V058	N/A				
2	1E51-RCIC-H37	B-99/00	SIMPLE	A	S90H1V059	N/A				
2	1E51-RCIC-H38	B-99/00	SIMPLE	A	S90H1V060	N/A				
2	1E41-HPSEH-17	E41-102	SNUBBER	A	S90H1V201	N/A				NON CODE COMPONENT.
2	1E11-RHRH-362	E11-103	SPRING	U	S90H1V241	190H1027	1-90-2793	A	S90H1V356	MISSING JAM NUT. NON CODE COMPONENT.
2	1E41-HPCIH-19A	E41-104	SIMPLE	U	S90H1V195	190H1021	1-90-2499	A	S90H1V265	FROZEN SPHERICAL BEARING. NON CODE COMPONENT.
2	1E11-RHRH-337	E11-113	SPRING	U	S90H1V228	190H1027	1-90-2793	A	S90H1V355	IMPROPER LOAD SETTING. NON CODE COMPONENT.

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ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
2	1E11-RHRH-338	E11-113	SIMPLE	A	S90H1V298	N/A				NON CODE COMPONENT.
3	1E11-ISH-4	C-1/00	HANGER RESTRAINT	U	S90H1V063	190H1006	N/A			NUTS ON BASE PLATE CORRODED ACCEPTABLE AS IS
3	1E11-ISH-5	C-1/00	HANGER RESTRAINT	U	S90H1V064	190H1006	1-90-2108	A	S90H1V361	3 NUTS ON BASE PLATES CORRODED
3	1E11-ISH-9	C-2/00	SIMPLE	U	S90H1V065	190H1006	1-90-2108	A	S90H1V322	TURNBUCKLE HAS CORRODED STRUT REPLACED
3	1E11-ISH-20	C-4/00	SIMPLE	A	S90H1V179	N/A				
3	1E11-RHRH-95	C-5/01	SPRING	A	S90H1V174	N/A				
3	1E11-RHRH-285	C-5/01	SIMPLE	A	S90H1V098	N/A				
3	1E11-RHRH-286	C-5/01	SNUBBER	A	S90H1V099	N/A				
3	1E11-RHRH-287	C-5/01	SIMPLE	A	S90H1V101	N/A				
3	1E11-RHRH-103	C-6/01	SIMPLE	A	S90H1V071	N/A				
3	1E11-RHRH-104	C-6/01	SIMPLE	A	S90H1V072	N/A				
3	1E11-RHRH-105	C-6/01	SIMPLE	A	S90H1V070	N/A				
3	1E11-RHRH-106	C-6/01	SIMPLE	U	S90H1V067	190H1006	N/A			LOCK NUT NOT FULLY ENGAGED ACCEPTABLE AS IS
3	1E11-RHRH-107	C-6/01	SIMPLE	U	S90H1V068	190H1006	N/A			LOOSE PIPE CLAMP ACCEPTABLE AS IS
3	1E11-RHRH-108	C-6/01	ANCHOR	A	S90H1V237	N/A				
3	1E11-RHRH-109	C-6/01	SPRING	U	S90H1V149	190H1017	1-90-2400	A	S90H1V245	IMPROPER SPRING CAN SETTINGS
3	1E11-RHRH-343	C-6/01	HANGER RESTRAINT	A	S90H1V073	N/A				
3	1E11-RHRH-344	C-6/01	SNUBBER	*		N/A				* PERFORMED BY GPC QC FOR 79- 14 MODIFICATION



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ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
3	1E11-RHRH-345	C-6/01	SPRING	*		N/A				* PERFORMED BY GPC QC FOR 79-14 MODIFICATION
3	1E11-RHRH-348	C-6/01	SNUBBER	A	S90H1V150	N/A				
3	1E11-RHRH-349	C-6/01	SIMPLE	A	S90H1V155	N/A				
3	1E11-RHRH-96	C-7/00	SPRING	A	S90H1V107	N/A				
3	1E11-RHRH-110	C-7/00	SPRING	A	S90H1V148	N/A				
3	1E11-RHRH-111	C-7/00	SIMPLE	U	S90H1V274	190H1038	1-90-2952	A	S90H1V375	MISALIGNED CLAMP
3	1E11-RHRH-112	C-7/00	SIMPLE	U	S90H1V076	190H1006	1-90-2155	A	S90H1V321	LOOSE TURNBUCKLE LOCKNUT
3	1E11-RHRH-113	C-7/00	SIMPLE	A	S90H1V075	N/A				
3	1E11-RHRH-114	C-7/00	SIMPLE	A	S90H1V236	N/A				
3	1E11-RHRH-115	C-7/00	HANGER RESTRAINT	A	S90H1V077	N/A				
3	1E11-RHRH-292	C-7/00	SNUBBER	U	S90H1V102	190H1017	1-90-2400	A	S90H1U258	LOOSE JAM NUT
3	1E11-RHRH-293	C-7/00	SIMPLE	A	S90H1V103	N/A				
3	1E11-RHRH-294	C-7/00	SIMPLE	A	S90H1V104	N/A				
3	1E11-RHRH-295	C-7/00	SIMPLE	A	S90H1V105	N/A				
3	1E11-RHRH-296	C-7/00	SIMPLE	A	S90H1V106	N/A				
3	1E11-RHRH-297	C-7/00	SIMPLE	A	S90H1V078	N/A				
3	1E11-RHRH-298	C-7/00	SIMPLE	U	S90H1V074	190H1006	1-90-2155	A	S90H1V333	LOOSE LOCKNUT
3	1E11-RHRH-299	C-7/00	SNUBBER	A	S90H1V147	N/A				
3	1E11-RHRH-300	C-7/00	SIMPLE	A	S90H1V154	N/A				
3	1E11-RHRH-301	C-7/00	SIMPLE	A	S90H1V153	N/A				

## 1990 E.I. HATCH UNIT 1 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
3	1E11-RHRH-302	C-7/00	SIMPLE	A	S90H1V152	N/A				
3	1E11-RHRH-303	C-7/00	SIMPLE	A	S90H1V151	N/A				
3	1P41-ISH-27	C-10/00	SIMPLE	U	S90H1V006	190H1002	1-90-1984	A	S90H1V209	SPHERICAL BEARING CORRODED
3	1P41-ISH-28	C-10/00	SIMPLE	U	S90H1V004	190H1002	N/A			EXCESSIVE BASE PLATE CORROSION ACCEPTABLE AS IS
3	1P41-ISH-75	C-10/00	SPRING	U	S90H1V003	190H1002	N/A			STRUCTURAL DEGRADATION OF BASE PLATE ACCEPTABLE AS IS
3	1P41-ISH-31	C-11/00	SIMPLE	A	S90H1V002	N/A				
3	1P41-ISH-34	C-11/00	SIMPLE	U	S90H1V005	190H1002	N/A			EROSION ON PIPE SUPPORT & WASHER ACCEPTABLE AS IS
3	1P41-SWH-69	C-39/01	SIMPLE	A	S90H1V081	N/A				
3	1P41-SWH-271	C-39/01	SIMPLE	A	S90H1V180	N/A				
3	1P41-SWH-206	C-40/01	SPRING	U	S90H1V009	190H1002	1-90-1930	A	S90H1V225	IMPROPER SPRING SETTING
3	1P41-SWH-211	C-40/01	SIMPLE	A	S90H1V007	N/A				
3	1P41-SWH-280	C-40/01	SIMPLE	A	S90H1V008	N/A				
3	1P41-SWH-85	C-61/00	SIMPLE	A	S90H1V254	N/A				
3	1P41-SWH-89	C-61/00	SIMPLE	A	S90H1V296	N/A				
3	1P41-SWH-29	C-69/01	SIMPLE	A	S90H1V082	N/A				
3	1P41-SWH-35	C-69/01	SIMPLE	A	S90H1V083	N/A				
3	1P41-SWH-36	C-69/01	SIMPLE	A	S90H1V084	N/A				
3	1P41-CBWH-32	C-71/02	SIMPLE	U	S90H1V010	190H1003	N/A			SPHERICAL BEARINGS CORRODED ACCEPTABLE AS IS
3	1P41-CBWH-33	C-71/02	SIMPLE	U	S90H1V011	190H1003	N/A			SPHERICAL BEARINGS CORRODED

## 1990 E.I. HATCH UNIT 1 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
										ACCEPTABLE AS IS
3	1P41-CBWH-700	C-71/02	SIMPLE	A	S90H1V018	N/A				
3	1P41-CBWH-11	C-72/00	SIMPLE	A	S90H1V014	N/A				
3	1P41-CBWH-12	C-72/00	SIMPLE	A	S90H1V015	N/A				
3	1P41-CBWH-28	C-72/00	SIMPLE	A	S90H1V016	N/A				
3	1P41-CBWH-35	C-72/00	SIMPLE	A	S90H1V013	N/A				
3	1P41-CBWH-36	C-72/00	SIMPLE	A	S90H1V012	N/A				
3	1P41-CBWH-37	C-72/00	SIMPLE	A	S90H1V017	N/A				
3	1P41-CBWH-4	C-75/02	SIMPLE	U	S90H1V204	190H1021	1-90-2501			CRACKED CONCRETE ACCEPTABLE AS IS PER GPC ENGINEERING
3	1P41-CBW-A-701	C-75/02	ANCHOR	A	S90H1V341	N/A				
3	1P41-CBWH-5	C-76/00	SIMPLE	A	S90H1V194	N/A				
3	1P41-CBWH-27	C-76/00	SIMPLE	A	S90H1V193	N/A				
3	1B21-SS38	C-78/02	SNUBBER	A	S90H1V136	N/A				
3	1B21-R4	C-78/2,79/2	SIMPLE	A	S90H1V115	N/A				
3	1B21-SS39	C-79/02	SNUBBER	A	S90H1V135	N/A				
3	1B21-MVV-H3	C-80/02	SPRING	A	S90H1V124	N/A				
3	1B21-SS12	C-80/02	SNUBBER	A	S90H1V146	N/A				
3	1B21-H822	C-81/01	SPRING	A	S90H1V125	N/A				
3	1B21-R8	C-81/01	HANGER RESTRAINT	A	S90H1V126	N/A				
3	1B21-SS10	C-81/01	SNUBBER	A	S90H1V144	N/A				



## 1990 E.I. HATCH UNIT 1 PIP\* SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	INF NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
3	1B21-SS11	C-81/01	SNUBBER	A	S90H1V145	N/A				
3	1B21-R7-R8	C-83/01	HANGER RESTRAINT	A	S90H1V123	N/A				
3	1B21-SS28	C-85/01	SNUBBER	A	S90H1V137	N/A				
3	1B21-SS32	C-86/01	SNUBBER	A	S90H1V141	N/A				
3	1B21-SS33A	C-86/01	SNUBBER	A	S90H1V140	N/A				
3	1B21-SS-29	C-87/01	SNUBBER	*		N/A				* PERFORMED BY GPC QC FOR 79-14 MODIFICATION
3	1B21-SS-31	C-87/01	SNUBBER	A	S90H1V139	N/A				
3	1B21-SS-33B	C-88/01	SNUBBER	A	S90H1V142	N/A				
3	1B21-SS-35	C-88/01	SNUBBER	A	S90H1V143	N/A				
3	1B21-R2	C-89/2,90/1	SIMPLE	A	S90H1V114	N/A				
3	1B21-SS40	C-90/01	SNUBBER	A	S90H1V138	N/A				
3	1B21-SS3	C-90/1,79/2	SNUBBER	A	S90H1V269	N/A				
3	1B21-MVVH-30	C-91/01	SPRING	A	S90H1V133	N/A				
3	1B21-MVVH-31	C-91/01	SNUBBER	A	S90H1V131	N/A				
3	1B21-MVVH-32	C-91/01	SNUBBER	A	S90H1V132	N/A				
3	1B21-MVVH-33	C-91/01	SNUBBER	U	S90H1V113	N/A	N/A			ACCEPTABLE AS IS PER GPC ENGINEERING
3	1B21-MVVH-35	C-92/01	SNUBBER	A	S90H1V117	N/A				
3	1B21-MVVH-36	C-92/01	SNUBBER	A	S90H1V116	N/A				
3	1B21-MVVH-37	C-92/01	SNUBBER	A	S90H1V118	N/A				
3	1B21-MVVH-22	C-93/01	SPRING	A	S90H1V128	N/A				

1990 E.I. HATCH 1 PIPE SUPPORTS

ASME CLASS	SUPPORT	FIGURE NO	HANGER TYPE	RESULTS	REPORT NO.	NO.	MWO NO.	RESULTS	REPORT NO.	REMARKS
3	1B21-MVVH-23	C-93/01	SNUBBER	A	S90H1V129	N/A				
3	1B21-MVVH-24	C-93/01	SNUBBER	A	S90H1V127	N/A				
3	1B21-MVVH-25	C-93/01	SNUBBER	A	S90H1V130	N/A				
3	1B21-MVVH-27	C-94/01	SNUBBER	A	S90H1V122	N/A				
3	1B21-MVVH-28	C-94/01	SNUBBER	A	S90H1V119	N/A				
3	1B21-MVVH-29	C-94/01	SNUBBER	A	S90H1V121	N/A				

SUMMARY OF  
AUGMENTED INSPECTIONS



E.I. HATCH UNIT 1 SPRING '990 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 CLEANUP SYSTEM</u>							
-- -- 0313	C-115/00	1G31-3RWCU-4-D-2 TEE TO PIPE	UT-H-400/9	145-H	S90H1C263 S90H1U558 S90H1C264 S90H1U559 S90H1U565	UT CAL SHEET NRI UT CAL SHEET NRI WELD PROFILE	N/A
-- -- 0313	C-115/00	1G31-3RWCU-4-D-6 ELBOW TO PIPE	UT-H-400/9	145-H	S90H1C253 S90H1U534 S90H1C255 S90H1U536 S90H1U563	UT CAL SHEET NRI UT CAL SHEET NRI WELD PROFILE	N/A
-- -- 0313	C-115/00	1G31-3RWCU-4-D-8 ELBOW TO PIPE	UT-H-400/9	145-H	S90H1C254 S90H1U535 S90H1C257 S90H1U538 S90H1U562	UT CAL SHEET NRI UT CAL SHEET NRI WELD PROFILE	N/A
-- -- 0313	C-116/00	1G31-3RWCU-4-R-20 ELBOW TO PIPE	UT-H-400/9	145-H	S90H1C259 S90H1U546 S90H1U550 S90H1C261 S90H1U548	UT CAL SHEET NRI WELD PROFILE UT CAL SHEET NRI	N/A
-- -- 0313	C-117/00	1G31-3RWCU-4-R-33 ELBOW TO PIPE	UT-H-400/9	145-H	S90H1C262 S90H1U549 S90H1C260 S90H1U547 S90H1U551	UT CAL SHEET NRI UT CAL SHEET NRI WELD PROFILE	N/A

E.I. HATCH UNIT 1 SPRING 1990 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 CLEANUP SYSTEM</u>							
--	C-108/00	1G31-32WCU-6-D-1 VALVE TO PIPE	UT-H-400/9	133-H	S90H1C258 S90H1U539 S90H1C256 S90H1U537 S90H1U552	UT CAL SHEET MRI UT CAL SHEET MRI WELD PROFILE	ONE-SIDED EXAM DUE TO VALVE CONFIGURATION.
0313							
--	C-108/00	1G31-32WCU-6-D-6 PIPE TO ELBOW	UT-H-400/9	133-H	S90H1C265 S90H1U560 S90H1C266 S90H1U561 S90H1U564	UT CAL SHEET MRI UT CAL SHEET MRI WELD PROFILE	N/A
0313							

SUMMARY OF  
REACTOR PRESSURE VESSEL  
INTERNAL INSPECTIONS



## 1990 REACTOR PRESSURE VESSEL INTERNALS

This section of the report provides a summary of the remote visual examinations performed by SCS and GE on selected RPV internals. The visual examinations were performed using SCS procedure VT-H-755 Rev.1. This procedure incorporates requirements for ASME Section XI, GE Service Information Letters and NRC IEB-80-13.

All visual examination tapes were reviewed by SCS 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

A sample of the vessel cladding designated during preservice inspection as clad patch #2 @ 135 deg., #3 @ 135 deg., #4 @ 225 deg., #5 @ 225 deg. was examined. The remaining internal components selected for examination were the steam dryer support lug and attachment weld @ 214 deg., the core top guide from 90 deg. to 180 deg., and the top guide hold down @ 266 deg.

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 @ 146 deg., and the lifting eye and rod. An indication was reported on the steam dryer drain channel number one. 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 20 jet pump inlet mixers in the throat area. The inspections of the inlet mixer throat area detected evidence of erosion. A review of the 1988 IVVI tapes revealed the erosion was present during those examinations. A visual inspection of the riser brace arm to vessel pad welds of all 20 jet pumps were examined.

No reportable indications were found.

All 20 jet pump beams were replaced this outage. No ultrasonic examination were performed. The new beams are made of an improved material which is considered a permanent resolution of IGSCC in hold down beams and eliminates the need for ultrasonic examination each outage.

### MOISTURE SEPARATOR EXAMINATIONS

Remote visual examinations were performed on various components of the moisture separators consisting of: lifting eye, rod and support brackets at 200 deg.; guide bracket and pin at 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 1990 refueling outage. This log was supplied along with the video tapes to the onsite document control department.

**E.I. HATCH UNIT 1 INVESSEL VISUAL TAPE LOG**  
**TWELFTH REFUELING OUTAGE - MARCH, 1990**

PAGE 1 OF 11

TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION
STEAM DRYER INSPECTIONS:		
EIH1-90-1	0000-0319	CAMERA RESOLUTION, 2/23/90 @ 0930 HOURS
EIH1-90-1	0319-0467	1", 3", 5" 7" & 12" SCREEN CALIBRATION
EIH1-90-1	0467-0527	CAMERA RESOLUTION, 2/23/90 @ 1245 HOURS
EIH1-90-1	0527-0900	0 DEGREE LOWER GUIDE
EIH1-90-1	0900-1478	0 DEGREE SKIRT VERTICAL WELD
EIH1-90-1	1478-1626	0 DEGREE UPPER GUIDE
EIH1-90-1	1626-2240	DRAIN CHANNEL #1, RIGHT SIDE
EIH1-90-1	2240-2390	DRAIN CHANNEL #1, TOP SIDE
EIH1-90-1	2390-2904	DRAIN CHANNEL #1, LEFT SIDE
EIH1-90-1	2904-3375	DRAIN CHANNEL #2, RIGHT SIDE
EIH1-90-1	3375-3527	DRAIN CHANNEL #2, TOP SIDE
EIH1-90-1	3527-3828	DRAIN CHANNEL #2, LEFT SIDE
EIH1-90-1	3828-4145	DRAIN PIPE #1
EIH1-90-1	4145-4408	DRAIN PIPE #2
EIH1-90-1	4408-4829	DRAIN CHANNEL #3, RIGHT SIDE
EIH1-90-1	4829-5321	DRAIN CHANNEL #3, TOP & LEFT SIDE



**E.I. HATCH UNIT 1 INVESSEL VISUAL TAPE LOG**  
**TWELFTH REFUELING OUTAGE - MARCH, 1990**

PAGE 2 OF 11

TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION
STEAM DRYER INSPECTIONS CONTINUED:		
EIH1-90-2	0000-0828	DRAIN CHANNEL #6 RIGHT & TOP SIDE LABELED ON THE TAPE AS DRAIN CHANNEL #4
EIH1-90-2	0828-1460	DRAIN CHANNEL #6 LEFT SIDE LABELED ON THE TAPE AS DRAIN CHANNEL #4
EIH1-90-2	1460-1470	CAMERA RESOLUTION, 2-23-90 @ 1720 HOURS
EIH1-90-2	1470-1490	CAMERA RESOLUTION, 2-24-90 @ 0830 HOURS
EIH1-90-2	1490-1837	180 DEGREE LOWER GUIDE
EIH1-90-2	1837-1915	180 DEGREE UPPER GUIDE
EIH1-90-2	1915-2306	180 DEGREE SKIRT VERTICAL WELD
EIH1-90-2	2306-2868	DRAIN CHANNEL #5, RIGHT SIDE
EIH1-90-2	2868-3236	DRAIN CHANNEL #5, TOP SIDE
EIH1-90-2	3236-3704	DRAIN CHANNEL #5, LEFT SIDE
EIH1-90-2	3704-4365	DRAIN CHANNEL #4, LEFT SIDE
EIH1-90-2	4365-5068	DRAIN CHANNEL #4, RIGHT SIDE
EIH1-90-2	5068-5230	DRAIN CHANNEL #4, TOP SIDE
EIH1-90-2	5230-5517	DRAIN PIPE #3
EIH1-90-2	5517-5819	DRAIN PIPE #4
EIH1-90-3	0000-0920	DRAIN CHANNEL #7, RIGHT SIDE

**E.I. HATCH UNIT 1 IN VESSEL VISUAL TAPE LOG**  
**TWELFTH REFUELING OUTAGE - MARCH, 1990**

PAGE 3 OF 11

TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION
STEAM DRYER INSPECTIONS CONTINUED:		
EIH1-90-3	0920-1173	DRAIN CHANNEL #7, TOP SIDE
EIH1-90-3	1173-1676	DRAIN CHANNEL #7, LEFT SIDE
EIH1-90-3	1676-2160	DRAIN CHANNEL #8, RIGHT SIDE
EIH1-90-3	2160-2464	DRAIN CHANNEL #8, TOP SIDE
EIH1-90-3	2464-2826	DRAIN CHANNEL #8, LEFT SIDE
EIH1-90-3	2826-3147	LIFTING EYE ASSEMBLY @ 325 DEGREES
EIH1-90-3	3147-3510	LIFTING EYE ASSEMBLY @ 215 DEGREES
EIH1-90-3	3510-4364	STIFFENER (TIE BARS) AND WELDS # 1,2,3,4,5,6,7,8,9 & 10
EIH1-90-3	4364-4598	LIFTING EYE ASSEMBLY @ 35 DEGREES
EIH1-90-3	4598-4856	LIFTING EYE ASSEMBLY @ 135 DEGREES
EIH1-90-3	4856-4894	CAMERA RESOLUTION, 2-24-90 @ 1730 HOURS
EIH1-90-3	4894-4930	CAMERA RESOLUTION, 2-25-90 @ 0900 HOURS
EIH1-90-3	4930-5485	VERTICAL BANK WELD #19
EIH1-90-3	5485-5831	VERTICAL BANK WELD #20
EIH1-90-4	0000-0876	VERTICAL BANK WELD #21
EIH1-90-4	0876-1806	VERTICAL BANK WELD #22
EIH1-90-4	1806-2102	VERTICAL BANK WELD #23

**E.I. HATCH UNIT 1 INVESSEL VISUAL TAPE LOG**  
**TWELFTH REFUELING OUTAGE - MARCH, 1990**

PAGE 4 OF 11

TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION
STEAM DRYER INSPECTIONS CONTINUED:		
EIH1-90-4	2102-2385	VERTICAL BANK WELD #24
EIH1-90-4	2385-2619	VERTICAL BANK WELD #25
EIH1-90-4	2619-2890	VERTICAL BANK WELD #26
EIH1-90-4	2890-3251	VERTICAL BANK WELD #27
EIH1-90-4	3251-3285	VERTICAL BANK WELD #28
EIH1-90-4	3285-3997	VERTICAL BANK WELD #29
EIH1-90-4	3997-4284	VERTICAL BANK WELD #30
EIH1-90-4	4284-4560	VERTICAL BANK WELD #31
EIH1-90-4	4560-4802	VERTICAL BANK WELD #32
EIH1-90-4	4802-4986	VERTICAL BANK WELD #33
EIH1-90-4	4986-5206	VERTICAL BANK WELD #34
EIH1-90-4	5206-5456	VERTICAL BANK WELD #35
EIH1-90-4	5456-5678	VERTICAL BANK WELD #36
EIH1-90-4	5678-5741	CAMERA RESOLUTION, 2-25-90 @ 1720 HOURS
EIH1-90-5	0000-0107	CAMERA RESOLURION, 2-26-90 @ 0900 HOURS
EIH1-90-5	0107-2325	SKIRT TO LOWER SUPPORT RING HORIZONTAL WELD
EIH1-90-5	2325-3200	SKIRT TO SKIRT HORIZONTAL WELD



**E.I. HATCH UNIT 1 INVESSEL VISUAL TAPE LOG**  
**TWELFTH REFUELING OUTAGE - MARCH, 1990**

PAGE 5 OF 11

TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION
STEAM DRYER INSPECTIONS CONTINUED:		
EIH1-90-5	3200-4016	UPPER SUPPORT RING TO SKIRT HORIZONTAL WELD
EIH1-90-5	4016-4561	UPPER SUPPORT RING FACE AREA
EIH1-90-5	4561-5560	UPPER SUPPORT RING FACE 34 DEGREES TO 146 DEGREES (1987 RECORDED INDICATIONS)
EIH1-90-5	5560- END	BANK/SEAL WELD TO UPPER SUPPORT RING
EIH1-90-6	0000-0244	BANK/SEAL WELD TO UPPER SUPPORT RING (CONT)
EIH1-90-6	0244-0302	CAMERA RESOLUTION, 2-27-90 @ 0840 HOURS
EIH1-90-6	0302-1448	DELETED
EIH1-90-6	1448-1900	VERTICAL BANK WELD #1
EIH1-90-6	1900-2188	VERTICAL BANK WELD #2
EIH1-90-6	2188-2609	VERTICAL BANK WELD #3
EIH1-90-6	2609-2929	VERTICAL BANK WELD #4
EIH1-90-6	2929-3192	VERTICAL BANK WELD #5
EIH1-90-6	3192-3441	VERTICAL BANK WELD #6
EIH1-90-6	3441-4090	VERTICAL BANK WELD #7
EIH1-90-6	4090-4367	VERTICAL BANK WELD #8
EIH1-90-6	4367-4608	VERTICAL BANK WELD #9
EIH1-90-6	4608-4903	VERTICAL BANK WELD #10
EIH1-90-6	4903-4938	CAMERA RESOLUTION, 2-27-90 @ 1505 HOURS

**E.I. HATCH UNIT 1 INVESSEL VISUAL TAPE LOG**  
**TWELFTH REFUELING OUTAGE - MARCH, 1990**

PAGE 6 OF 11

TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION
STEAM DRYER INSPECTIONS CONTINUED:		
EIH1-90-6	4938-5000	CAMERA RESOLUTION, 2-28-90 @ 0830 HOURS
EIH1-90-6	5000-5280	VERTICAL BANK WELD #11
EIH1-90-6	5280-5336	VERTICAL BANK WELD #12 (REEXAMINED - SEE TAPE EIH1-90-7, COUNTS 0447-0874)
EIH1-90-6	5336-5358	CAMERA RESOLUTION, 2-28-90 @ 1330 HOURS
EIH1-90-6	5358-5510	VERTICAL BANK WELD #37
EIH1-90-6	5510-5659	VERTICAL BANK WELD #38
EIH1-90-6	5659-5870	VERTICAL BANK WELD #39
EIH1-90-6	5870-END	VERTICAL BANK WELD #40
EIH1-90-7	0000-0402	VERTICAL BANK WELD #40
EIH1-90-7	0402-0447	CAMERA RESOLUTION, 3-1-90 @ 0830 HOURS
EIH1-90-7	0447-0874	VERTICAL BANK WELD #12
EIH1-90-7	0874-1344	VERTICAL BANK WELD #13
EIH1-90-7	1344-1787	VERTICAL BANK WELD #14
EIH1-90-7	1787-2197	VERTICAL BANK WELD #15
EIH1-90-7	2197-2661	VERTICAL BANK WELD #16
EIH1-90-7	2661-3107	VERTICAL BANK WELD #17
EIH1-90-7	3107-3471	VERTICAL BANK WELD #18
EIH1-90-7	3471-3843	RELOOK @ VERTICAL BANK WELD #22
EIH1-90-7	3843-4186	RELOOK @ VERTICAL BANK WELD #7

**E.I. HATCH UNIT 1 INVESSEL VISUAL TAPE LOG**  
**TWELFTH REFUELING OUTAGE - MARCH, 1990**

PAGE 7 OF 11

TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION
EIH1-90-7	4186-4353	STEAM SEPARATOR 180 DEGREE GUIDE
EIH1-90-7	4353-4615	STEAM SEPARATOR LIFTING EYE ASSEMBLY @ 200 DEGREES
EIH1-90-7	4615-5232	CLEANING AND RELOOK @ DRYER VERTICAL BANK WELD #7
EIH1-90-7	5232-5272	CAMERA RESOLUTION, 3-1-90 @ 1145 HOURS
EIH1-90-8	0000-0162	CAMERA RESOLUTION, 3-7-90 @ 0645 HOURS
EIH1-90-8	0162-0704	CLAD PATCH #2 & 3 @ 135 DEGREES
EIH1-90-8	0704-0990	CLAD PATCH #4 & 5 @ 225 DEGREES
EIH1-90-8	0990-1210	STEAM DRYER SUPPORT BRACKET @ 214 DEGREES
EIH1-90-8	1210-1323	TOP GUIDE HOLD DOWN @ 266 DEGREES
EIH1-90-8	1323-1598	TOP GUIDE @ 90 TO 180 DEGREES (TOP PORTION)
EIH1-90-8	1598-1823	TOP GUIDE (SHROUD) FLANGE @ 0 TO 90 DEGREES
EIH1-90-8	1823-3270	FEEDWATER SPARGER @ 45 DEGREES, LEFT END BRACKET AND TOP (NOZZLE) PASS CW DIRECTION
EIH1-90-8	3270-4016	FEEDWATER SPARGER @ 45 DEGREES, BOTTOM PASS CCW DIRECTION AND TEE WELDS
EIH1-90-8	4016-4501	FEEDWATER SPARGER @ 45 DEGREES, RIGHT END BRACKET
EIH1-90-8	4501-4985	FEEDWATER SPARGER @ 135 DEGREES, LEFT END BRACKET (MINOR WEAR ON BOLT IN SLOT)



**E.I. HATCH UNIT 1 INVESSEL VISUAL TAPE LOG**  
**TWELFTH REFUELING OUTAGE - MARCH, 1990**

PAGE 8 OF 11

TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION
EIH1-90-8	4985-5744	FEEDWATER SPARGER @ 135 DEGREES, TOP (NOZZLE) PASS CD DIRECTION, BOTTOM PASS CCW DIRECTION AND TEE WELDS
EIH1-90-9	0000-0712	FEEDWATER SPARGER @ 135 DEGREES, RIGHT END BRACKET
EIH1-90-9	0712-1588	TOP GUIDE TOP GRID AREA 90 TO 180 DEGREES
EIH1-90-9	1588-2233	FEEDWATER SPARGER @ 225 DEGREES, LEFT END BRACKET AND TOP (NOZZLE) PASS CW DIRECTION
EIH1-90-9	2233-2852	FEEDWATER SPARGER @ 225 DEGREES, BOTTOM PASS CCW DIRECTION AND TEE WELDS
EIH1-90-9	2855-3198	FEEDWATER SPARGER @ 225 DEGREES, RIGHT END BRACKET
EIH1-90-9	3198-3579	FEEDWATER SPARGER @ 315 DEGREES, LEFT END BRACKET
EIH1-90-9	3579-3826	FEEDWATER SPARGER @ 315 DEGREES, TOP (NOZZLE) PASS CW DIRECTION
EIH1-90-9	3826-3986	FEEDWATER SPARGER @ 315 DEGREES, BOTTOM PASS CCW DIRECTION
EIH1-90-9	3986-4360	FEEDWATER SPARGER @ 315 DEGREES, TEE WELDS
EIH1-90-9	4360-4690	FEEDWATER SPARGER @ 315 DEGREES, RIGHT END BRACKET
EIH1-90-10	0000-0083	CAMERA RESOLUTION 3-7-90 @ 1830 HOURS

**E.I. HATCH UNIT 1 INVESSEL VISUAL TAPE LOG**  
**TWELFTH REFUELING OUTAGE - MARCH, 1990**

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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION
EIH1-90-10	0083-1376	CORE SPRAY DOWNCOMER @ 10 DEGREES
EIH1-90-10	1376-2639	CORE SPRAY INTERNAL PIPING 10 TO 90 DEGREES
EIH1-90-10	2939-3319	CORE SPRAY INTERNAL PIPING 90 TO 170 DEGREES
EIH1-90-10	3319-4088	CORE SPRAY DOWNCOMER @ 170 DEGREES
EIH1-90-10	4088-4830	CORE SPRAY DOWNCOMER @ 190 DEGREES
EIH1-90-10	4839-5300	CORE SPRAY INTERNAL PIPING @ 190 TO 270 DEGREES
EIH1-90-11	0000-1844	CORE SPRAY INTERNAL PIPING @ 270 TO 350 DEGREES
EIH1-90-11	1844-3032	CORE SPRAY DOWNCOMER @ 350 DEGREES
EIH1-90-11	3032-3688	CORE SPRAY SPARGERS TOP PASS 270 TO 90 DEGREES (UPPER PORTION OF SPARGER A)
EIH1-90-11	3688-4152	CORE SPRAY SPARGERS TOP PASS 90 TO 270 DEGREES (UPPER PORTION OF SPARGER C)
EIH1-90-11	4151-4599	CORE SPRAY SPARGERS BOTTOM PASS 270 TO 90 DEGREES (LOWER PORTION OF SPARGER A)
EIH1-90-11	4599-5349	CORE SPRAY SPARGERS BOTTOM PASS 90 TO 270 DEGREES (LOWER PORTION OF SPARGER C)
EIH1-90-11	5349-5539	CORE SPRAY SPARGER A TEE BOX @ 10 DEGREES
EIH1-90-11	5539-5738	CORE SPRAY SPARGER C TEE BOX @ 170 DEGREE

**E.I. HATCH UNIT 1 INVESSEL VISUAL TAPE LOG**  
**TWELFTH REFUELING OUTAGE - MARCH, 1990**

PAGE 10 OF 11

TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION
EIH1-90-12	0000-1243	CORE SPRAY SPARGERS TOP PASS 270 TO 90 DEGREES (TOP PORTION OF SPARGER B)
EIH1-90-12	1243-2298	CORE SPRAY SPARGERS TOP PASS 90 TO 270 DEGREES (TOP PORTION OF SPARGER D)
EIH1-90-12	2298-2402	CORE SPRAY SPARGER B TEE BOX @ 350 DEGREE
EIH1-90-12	2402-2576	CORE SPRAY SPARGER D TEE BOX @ 190 DEGREE
EIH1-90-12	2576-2602	CAMERA RESOLUTION, 3-8-90 @ 1030 HOURS
EIH1-90-13	0000-0067	CAMERA RESOLUTION, 3-12-90 @ 0945 HOURS
EIH1-90-13	0067-0825	JET PUMP #1 & 2 RISER BRACE ARM WELD AND INLET MIXER AREA
EIH1-90-13	0825-2726	JET PUMP #3 & 4 RISER BRACE ARM WELD AND INLET MIXER AREA
EIH1-90-13	2726-3164	JET PUMP #3 RISER BRACE ARM WELD AND INLET MIXER AREA.. <b>LABELED JET PUMP #5</b>
EIH1-90-13	3164-4356	JET PUMP #5 & 6 RISER BRACE ARM WELD AND INLET MIXER AREA
EIH1-90-13	4356-4651	JET PUMP #7 & 8 RISER BRACE ARM WELD AND INLET MIXER AREA
EIH1-90-13	4651-4911	#9 & 10 RISER BRACE ARM WELD AND INLET MIXER AREA
EIH1-90-13	4911-5293	JET PUMP #11 & 12 RISER BRACE ARM WELD AND INLET MIXER AREA
EIH1-90-13	5293-5609	JET PUMP #13 & 14 RISER BRACE ARM WELD AND INLET MIXER AREA



E.I. HATCH UNIT 1 INVESSEL VISUAL TAPE LOG  
TWELFTH REFUELING OUTAGE - MARCH, 1990

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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION
EIH1-90-13	5609-END	JET PUMP #15 & 16 RISER BRACE ARM WELD AND INLET MIXER AREA
EIH1-90-14	0012-0947	JET PUMP #17 & 18 RISER BRACE ARM WELD AND INLET MIXER AREA
EIH1-90-14	0947-1793	JET PUMP #19 & 20 RISER BRACE ARM WELD AND INLET MIXER AREA
EIH1-90-14	1793-1843	CAMERA RESOLUTION, 3-12-90 @ 1745 HOURS

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 activities which were included in the ASME Section XI boundaries. (Class 3 items included for information only)

The following repair/replacement tables have been printed using two different formats due to a change in the data base used to compile the records.

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



ATTACHMENT TO THE OWNER'S DATA REPORT  
REPAIR AND REPLACEMENT SUMMARY

COMPONENT NAME ( MFL NO. )	SYSTEM ID NO.	ASME CLASS	WORK DESCRIPTION	ORGANIZATION PERFORMING WORK	PRESSURE TEST	MWO/DCR	REMARKS
RPV JET PUMP BEAMS	1811	1	REPLACE JET PUMP BEAMS	GE	N/A	MWO 1-89-4273 DCR N/A	
1B21-G001	1821	1	GRINDING ON LINEAR INDICATION ON MAIN STEAM PIPE TO MSIV WELD	CIMCO	N/A	MWO 1-90-2334 DCR N/A	SEE DC # 1-90-1818
1B21-F005	1821	1	REPLACE VALVE	GPC MAINTENANCE	CLS 1 LEAKAGE	MWO 1-88-7307 DCR 88-251	SEE DC # 1-88-5595
1B21-DFD-H801 1B21-H812 1B21-H813 1B21-H814 1B21-H815 1B21-H826	1821	1	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-90-0227 DCR 81-058	
1B31-SSA7	1831	1	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14		N/A	MWO 1-89-6157 DCR 81-058	CIMCO
1C41-F1-H004 1C41-F1-H005 1C41-F1-H006 1C41-F1-H008 1C41-F1-H009 1C41-F1-H010 1C41-X54-1F8-H800 1C41-X54-1F8-H801	1C41	1	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-4726 DCR 81-058	
1E41-SS-20	1E41	1	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-90-0095 DCR 81-058	
1G31-SM-5	1G31	1	SNUBBER FAILED FUNCTIONAL TEST, REPLACE WITH SAME TYPE SNUBBER	GPC MAINTENANCE	N/A	MWO 1-90-1756 DCR N/A	

ATTACHMENT TO THE OWNER'S DATA REPORT  
REPAIR AND REPLACEMENT SUMMARY

COMPONENT NAME (MPL NO.)	SYSTEM ID NO.	ASME CLASS	WORK DESCRIPTION	ORGANIZATION PERFORMING WORK	PRESSURE TEST	MWO/DCR	REMARKS
1B21-F1-H001 1B21-F1-H004 1B21-F1-H007 1B21-F30-H001 1B21-F30-H002 1B21-F30-H004	1B21	2	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-4689 DCR 81-058	
1C11-CRD-H11 1C11-CRD-H53 1C11-CRD-H54	1C11	2	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-90-0344 DCR 81-058	
1C41-F0298	1C41	2	REMOVE, REPAIR, BENCH TEST PRESSURE RELIEF VALVE	GPC MAINTENANCE	N/A	MWO 1-90-0041 DCR N/A	SEE DC # 1-89-0028
1C41-A0038	1C41	2	ACCUMULATOR ADAPTER TO BE WELDED TO PIPING	GPC MAINTENANCE	CLS 1 LEAKAGE	MWO 1-89-0564 DCR 1-89-0476	SEE DC # 1-89-0476
1E11-RHR-H239 1E11-RHR-H346	1E11	2	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-1631 DCR 81-058	
1E11-RHR-H260 1E11-RHR-H262 1E11-RHR-H332 1E11-RHR-H742 1E11-RHR-H803	1E11	2	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-1033 DCR 81-058	
1E11-N041	1E11	2	REPAIR FW3R3	GPC MAINTENANCE	HYDRO	MWO 1-89-0184 DCR N/A	SEE DC # 1-89-0210
1E11-ISH-4 1E11-ISH-5 1E11-ISH-9	1E11	2	REPAIR UNACCEPTABLE CONDITIONS (ISI) 1E11-ISH-4, 5, & 9	CIMCO	N/A	MWO 1-90-2108 DCR N/A	SEE DC # 1-90-1563

ATTACHMENT TO THE OWNER'S DATA REPORT  
REPAIR AND REPLACEMENT SUMMARY

COMPONENT NAME ( MPL NO. )	SYSTEM ID NO.	ASME CLASS	WORK DESCRIPTION	ORGANIZATION PERFORMING WORK	PRESSURE TEST	MWO/DCR	REMARKS
1E11-RHRH-337	1E11	2	SPRING CAN IS SET AT IMPROPER SETTING	CIMCO	N/A	MWO 1-90-2793 DCR N/A	
1E21-CS-H30 1E21-CS-H32 1E21-CS-H63	1E21	2	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-1032 DCR 81-058	
1E41-HPSEH	1E41	2	GROUT BASEPLATE 79-14 MODIFICATION	CIMCO	N/A	MWO 1-89-1035 DCR 81-058	
1E41-HPC1-H35 1P41-F7-H801A 1P52-186-H805	1E41 1P41 1P52	2	MODIFY SUPPORT TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-88-7526 DCR 81-058	SEE DC # 2-89-2085
1E51-RCIC-H30	1E51	2	MODIFY SUPPORT TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-1029 DCR 81-058	
1E51-RCSEH-25	1E51	2	ADJUST SPRING CAN SUPPORT	CIMCO	N/A	MWO 1-89-2118 DCR N/A	SEE DC # 1-90-1582
1G31-C001A	1G31	2	INSTALL THRUST CLAMP PLATE ON RWCU PUMP	CIMCO	HYDRO	MWO 1-88-5408 DCR 85-222	
1G41-D008	1G41	2	FABRICATE & INSTALL NEW SPECTACLE FLANGE FOR 1G41-D008	GPC MAINTENANCE	OPER. PRESS.	MWO 1-90-1791 DCR N/A	
1P41-SWH-104	1P41	2	MODIFY SUPPORT TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-88-5061 DCR 81-058	
1P41-F049 1P41-F050	1P41	2	DISASSEMBLE, INSPECT & REPAIR AS NECESSARY 1P41-F049, F050	GPC MAINTENANCE	OPER. PRESS.	MWO 1-90-1353 DCR 88-270	



ATTACHMENT TO THE OWNER'S DATA REPORT  
REPAIR AND REPLACEMENT SUMMARY

COMPONENT NAME ( MPL NO. )	SYSTEM ID NO.	ASME CLASS	WORK DESCRIPTION	ORGANIZATION PERFORMING WORK	TESTURE TEST	MWO/DCR	REMARKS
1T4B-CP-H38	1T4B	2	MODIFY SUPPORT TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-1045 DCR 81-058	
1E11-F068A	1E11	3	GRIND AND REWELD THRU-WALL DEFECT	CIMCO	OPER. PRESS.	MWO 1-88-5912 DCR 1-88-4731	SEE DC # 1-88-4133
1E11-F904A	1E11	3	REPLACE AND TEST VALVE AND SPOOL PIECE MADE PER 1-89-5793	GPC MAINTENANCE	OPER. PRESS.	MWO 1-89-5827 DCR 1H89-227	
1E11-RHRH-109	1E11	3	SPRING CAN IS SET AT IMPROPER LOW SETTING	CIMCO	N/A	MWO 1-90-2400 DCR 1-90-1889	SEE DC # 1-90-1889
1E11-H173 1E11-H64	1E11	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-90-3058 DCR 81-058	
1E11-RHR-H182 1E51-RCES-H25 1P41-F7-H800 1P41-SWH-181 1P41-SWH-202 1P41-SWH-702 1P41-SWH-709	1E11 1E51 1P41	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-88-8225 DCR 81-058	
1P41-F68-H800 1P41-F68-H803 1P52-F183-H805 1P51-F184-H803 1P52-F186-H801 1P52-F186-H803	1P41 1P52	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-88-7528 DCR 81-058	

ATTACHMENT TO THE OWNER'S DATA REPORT  
REPAIR AND REPLACEMENT SUMMARY

COMPONENT NAME ( MPL NO. )	SYSTEM ID NO.	ASME CLASS	WORK DESCRIPTION	ORGANIZATION PERFORMING WORK	PRESSURE TEST	MWO/DCR	REMARKS
1P41-SW-H227 1P41-SW-H262 1P41-SW-H63 1P41-SW-H64 1P41-SW-H66 1P41-SW-H68 1P41-SW-H68A	1P41	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-0903 DCR 81-058	
1P41-SW-H1088	1P41	3	MODIFY SUPPORT TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-1028 DCR 81-058	
1P41-SW-H177 1P41-F51-H800 1P41-F51-H800A 1P41-F76-H892 1P41-F76-H802A	1P41	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-1036 DCR 81-058	
1P41-F6-H802 1P41-F59-H801A 1P41-SW-H703	1P41	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-1037 DCR 81-058	
1P41-SW-H238 1P41-SW-H251 1P41-SW-H252A 1P41-SW-H250	1P41	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-1038 DCR 81-058	
1P41-SW-H704 1P41-SW-H705 1P41-SW-H707 1P41-SW-H708	1P41	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-1039 DCR 81-058	

ATTACHMENT TO THE OWNER'S DATA REPORT  
REPAIR AND REPLACEMENT SUMMARY

COMPONENT NAME ( MPL NO. )	SYSTEM ID NO.	ASME CLASS	WORK DESCRIPTION	ORGANIZATION PERFORMING WORK	PRESSURE TEST	MWO/DCR	REMARKS
1P41-102-H800 1P41-F7-H801 1P41-F7-H806 1P41-F7-H800A 1P41-102-H800A	1P41	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-1044 DCR 81-058	
1P41-F403B	1P41	3	REPLACE VALVE	GPC MAINTENANCE	N/A	MWO 1-89-2058 DCR 86-208	SEE DC # 1-89-2008
PSW PIPING	1P41	3	MODIFY PIPING PER DCR # 89-162	CIMCO	HYDRO	MWO 1-89-3493 DCR 89-162	
1P41-C001	1P41	3	BUILD SPARE PUMP	GPC MAINTENANCE	N/A	MWO 1-89-3567 DCR N/A	
1P41-C001A	1P41	3	REPLACE THE UPPER FLANGE	GPC MAINTENANCE	OPER. PRESS.	MWO 1-90-1375 DCR 1-90-0745	
1P41-F401A	1P41	3	REPLACE 1P41-F410A	GPC MAINTENANCE	OPER. PRESS.	MWO 1-90-1410 DCR 86-208	
1P41-SDGH-21 1P41-102-A701 1P41-102-H702	1P41	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-90-0569 DCR 81-058	
1P41-SW-H95	1P41	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-5131 DCR 81-058	
1P41-SW-H107 1P41-SW-H110 1P41-SW-H111 1P41-SW-H111A 1P41-SW-H121	1P41	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-5340 DCR 81-058	



ATTACHMENT TO THE OWNER'S DATA REPORT  
REPAIR AND REPLACEMENT SUMMARY

COMPONENT NAME ( MPL NO. )	SYSTEM ID NO.	ASME CLASS	WORK DESCRIPTION	ORGANIZATION PERFORMING WORK	PRESSURE TEST	MWO/DCR	REMARKS
1P41-SW-H70A 1P41-SW-H103B 1P41-SW-H706 1P41-SW-H710 1P41-SW-H560A 1P41-F51-H802	1P41	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-5339 DCR 81-058	
1P41-CBW-A700 1P41-CBW-A701 1P41-CBW-H3 1P41-CBW-H9 1P41-CBW-H23 1P41-CBW-H24	1P41	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-90-0228 DCR 81-058	
1P41-SW-H157	1P41	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-5338 DCR 81-058	
1T46-SG-H21 1T46-SG-H22 1T46-SG-H29 1T46-SG-H33	1T46	3	MODIFY SUPPORTS TO COMPLY WITH IEB 79-14	CIMCO	N/A	MWO 1-89-1027 DCR 81-058	

MWO	MRL	COMPONENT	TEST
A.1-90-3239	1E11	6" GLOBE VALVE	LEAKAGE INSPECTION AT OPERATING PRESSURE

PROBLEM

VALVE IS LEAKING BY ALLOWING PIPING TO BECOME PRESSURIZED FROM STEAM IN HPCI PIPING.

REPAIR

REPLACED DISC AND DEXTERED SEATS.

B.1-89-7114	1E11	RHRW	1E11	FO68B	NORMAL OPERATING PRESSURE TEST
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PROBLEM

LINEAR INDICATIONS IN VALVE FOUND BY MT.

REPAIR

VALVE REPLACED PER REV 2 OF EVALUATION SHEET.

C.1-90-3397	1B31	SPRING CANS	1B31	H81 AND H82	NO TEST REQUIRED
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PROBLEM

HANGERS NOT SET AT PROPER COLD LOAD SETTING

REPAIR

READJUSTED HANGERS

D.1-90-3433	1E11	PIPE SUPPORT	1E11-RHRH-400	NO TEST REQUIRED
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PROBLEM

TIGHTEN LOOSE ANCHOR BOLTS ON WALL MOUNT PLATE

REPAIR

RETIGHTENED ANCHOR BOLTS

E.1-90-2674	1E11	5" RELIEF VALVE	1E11-F904B	VT WHILE IN SERVICE
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PROBLEM

VALVE WILL NOT SEAT

REPAIR

REPLACED VALVE WITH IDENTICAL VALVE.

F.1-90-3248	1E11	VALVE	1E11-F140B	LEAKAGE TEST AT NORMAL SYSTEM PRESSURE
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PROBLEM

STEAM LEAKING BY VALVE .

REPAIR

REPLACED STEM AND REFURBISHED DISC.

G.1-90-096 1E21 SUPPORT 1E21-CSH-76 NO TEST REQUIRED

PROBLEM  
MODIFY SUPPORT PER IEB 79-14

REPAIR  
SUPPORT MODIFIED

H.1-90-0092 1E41 SUPPORT 1E41-HPCIH-31 NO TEST REQUIRED

PROBLEM  
MODIFY SUPPORT PER IEB 79-14

REPAIR  
SUPPORT MODIFIED.

I.1-90-3336 1B31 WELD 1B31-1RC-28A2 TESTED WITH  
VESSEL HYDRO TEST

PROBLEM  
REMOVE BOAT SAMPLE FOR EVALUATION OF WELD  
INDICATIONS.

REPAIR  
REPAIRED REMOVAL AREA BY WELDING.

J.1-90-3713 1B31 SPRING CAN 1B31-HA-1 NO TEST  
REQUIRED

PROBLEM  
SPRING CAN SET AT IMPROPER COLD LOAD.

REPAIR  
RESET SPRING CAN TO PROPER COLD LOAD SETTING.

K.1-90-2738 1B31 SNUBBERS 1B31-VARIOUS SNUBBERS NO TEST  
REQUIRED

PROBLEM  
REPLACE THE FOLLOWING SNUBBERS WITH NEW  
LISEGA SNUBBERS: B31-SS-A1, A2, A3, A4, A5, A6, A8, A12, A13, A14.

REPAIR  
SNUBBERS REPLACED.

L.1-89-6731 1E11 SUPPORTS 1B31 VARIOUS SUPPORTS NO  
TESTING REQUIRED

PROBLEM  
MODIFY SUPPORTS 1E11-RHRH-268&H-377 PER IEB

REPAIR  
SUPPORTS MODIFIED.



M.1-89-4769      1P41      SUPPORT      1P41-SWH-162A      NO TESTING  
REQUIRED.

PROBLEM  
MODIFY SUPPORT PER IEB 79-14.

REPAIR  
SUPPORT MODIFIED

N.1-89-6604      1C11      HANGERS      CRD-H19,H21      NO TESTING  
REQUIRED

PROBLEM  
MODIFY HANGERS PER IEB 79-14

REPAIR  
SUPPORTS MODIFIED.

O.1-90-0100      1P41      SUPPORTS      1P41      VARIOUS      SUPPORTS      NO  
TESTING REQUIRED.

PROBLEM  
MODIFY 1P41-SWH-9 &H-232 PER IEB 79-14.

REPAIR  
SUPPORTS MODIFIED.

P.1-90-0571      1G51      SUPPORTS      1G51-TDP-R709      NO TESTING  
REQUIRED

PROBLEM  
MODIFY SUPPORT PER IEB 79-14

REPAIR  
SUPPORT MODIFIED.

Q.1-90-0098      1E51      SUPPORT      1E51-RCSFH-6      NO TESTING  
REQUIRED

PROBLEM  
MODIFY SUPPORT PER IEB 79-14

REPAIR  
SUPPORT MODIFIED.

R.1-90-2521      1B31      PIPING      1B31 RECIRC PIPING      HYDROTEST  
PERFORMED PER 42SP-040190-QM-1-1S.

PROBLEM  
IGSCC      ON      WELDS  
28-A2, 28-A4, 28-A6, 28-A7, 28-A8, 28-B8, & 28-B10

REPAIR  
WELD OVERLAYS APPLIED

S.1-89-6158      1E11      SUPPORTS      1E11      VARIOUS      SUPPORTS      NO  
TESTING REQUIRED.

PROBLEM  
MODIFY SUPPORTS 1E11-RHR-H182,H380 &H381 PER

IEB 79-14

REPAIR  
SUPPORTS MODIFIED.

T.1-89-6902      1P41      PIPING      1P41      PIPING TO DRYWELL COOLERS  
HYDRO

PROBLEM  
REMOVE PIPING TO REPLACE COOLER COILS IN T47  
COOLERS

REPAIR  
REPLACED PIPING AFTER COIL REPLACEMENT.