



Entergy Operations, Inc.  
Waterloo Road  
P.O. Box 756  
Port Gibson, MS 39150  
Tel 601 437 6299

**Charles A. Bottemiller**  
Manager  
Plant Licensing

GNRO-2004/00019

March 8, 2004

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555-0001

Subject: Inservice Inspection Summary Reports  
Grand Gulf Nuclear Station, Unit 1  
Docket No. 50-416  
License No. NPF-29

Dear Sir or Madam:

Attached is the Owner's Activity Report required by Section XI of the ASME Code (Code), OAR-1-00005. The report was prepared and submitted in accordance with the requirements of ASME Code Case N-532 as previously authorized by the NRC. The summarized inspections were performed prior to Revision 13 of Reg. Guide 1.147 which invokes supplemental conditions to report and submit the OAR within 90 days after a refueling outage. The report contains an overall summary of Inservice Inspections performed to date, during the Second Period of the Second Interval and prior to implementation of the supplemental conditions. The Second Period of the Second Interval started June 2001 and will end June 2004. The report has been certified in accordance with Code requirements.

Also attached are the OAR's for the First Period of the Second Interval, OAR-1-00002, OAR-1-00003, and OAR-1-00004. During our preparation for the submittal of OAR-1-00005, we found no indication that you were provided OAR's for the First Period of the Second Interval. Those reports are attached to ensure you have the information. The First Period of the Second Interval started June 1997 and ended May 2001. These reports were prepared and submitted in accordance with the requirements of ASME Code Case N-532 as previously authorized by the NRC and have been certified in accordance with Code requirements.

There are no new commitments contained in this submittal. If you have any questions concerning this request, please contact William B. Brice at (601) 368-5076.

Sincerely,

A handwritten signature in black ink, appearing to be 'W. Brice', written over a horizontal line.

CAB/WBA:wba

Attachments: Summary Reports OAR-1-00005, OAR-1-00004, OAR-1-00003,  
OAR-1-00002

cc: NRC Senior Resident Inspector (w/a)  
Grand Gulf Nuclear Station  
Port Gibson, MS 39150

U. S. Nuclear Regulatory Commission  
ATTN: Mr. Bhalchandra Vaidya, NRR/DLPM (w/2)  
ATTN: ADDRESSEE ONLY  
ATTN: U. S. Postal Delivery Address Only  
Mail Stop OWFN/7D-1  
Washington, DC 20555-0001

US. Nuclear Regulatory Commission  
ATTN: Mr. Bruce S. Mallett (w/2)  
Regional Administrator, Region IV  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011-4005

Mr. D. E. Levanway (Wise Carter) (w/o)  
Mr. L. J. Smith (Wise Carter) (w/o)  
Mr. N. S. Reynolds (w/o)  
Mr. H. L. Thomas (w/o)

Report Number OAR-1-0005

Inservice Inspection Summary Report

For

Grand Gulf Nuclear Station

Bald Hill Road

Port Gibson, Ms. 39150

Commerical Operation Date: July 1, 1985

Owner/Operator

Entergy Operations, Inc.

Echelon One

P. O. Box 31995

Jackson, Ms 39286-1995

Prepared By <i>Daryl Albright</i> EB Resp. Eng.	Approved By <i>Ronald R. Bivins</i> ANII Inspector	Approved By <i>[Signature]</i> Supervisor, Code Programs
Approved By <i>Dennis C. Lee</i> Supervisor, Quality Inspections/NDE	Document Completion Date <i>2-18-04</i>	

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number : OAR-1-00005

Owner Entergy Operations, Inc., Echelon One, P.O. Box 31995, Jackson Ms. 39286-1995 (Name and Address of Owner)

Plant Grand Gulf Nuclear Station, Bald Hill Road, P.O. Box 756, Port Gibson, Ms. 39150-0756 (Name and Address of Plant)

Unit No. 1 Commercial Service Date July 1, 1985 Refueling Outage No. 12 (if applicable)

Current Inspection Interval 2nd (1st, 2nd, 3rd, 4th, other)

Current Inspection Period 2nd (1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plan 1992 Edition, with portions of 1993 Addenda

Date and revision of inspection plan May 22, 2000, Revision 13

Edition and Addenda of Section XI applicable to repairs and replacements different than the inspection plan N/A

OWNER'S CERTIFICATE OF CONFORMANCE

I certify that the statements made in this Owner's Activity Report are correct, and that the examinations, tests, repairs, replacements, evaluations, and corrective measures represented by this report conform to the requirements of Section XI.

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] , Repair and Replacement Coordinator Date 2-11-04 (Owner or Owner's Designee, Title)

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mississippi and employed by ABS Group Inc. of Houston, TX, have inspected the items described in this Owner's Activity Report during the period May 6, 2001, to October 6, 2002, and state that to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, repairs, replacements, evaluations, and corrective measures described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 5560 N-I, MS 3978 (Inspector's Signature, National Board, State, Province, and Endorsements)

Date 2-11-04

**TABLE 1****ABSTRACT OF EXAMINATIONS AND TESTS**

<b>Examination Category</b>	<b>Total Examinations Required For The Interval</b>	<b>Total Examinations Credited For This Period</b>	<b>Total Examinations Credited (%) For The Period</b>	<b>Total Examinations Credited (%) To Date For The Interval</b>	<b>Remarks</b>
B-A	28	6	75	53	None
B-D	70	20	87	60	None
B-F	28	10	100	64	None
B-G-1	45	4	100	66	Note 1
B-G-2	50	3	75	10	Note 2
B-J	265	69	91	56	None
B-H	1	0	0	0	None
B-K-1	9	4	100	22	None
B-L-2	2	0	0	0	Note 3
B-M-2	71	0	0	0	Note 3
B-N-1	7	1	0	14	None
B-N-2	87	0	0	0	None
B-O	1	0	0	0	None
C-A	2	0	0	0	None
C-B	4	0	0	0	None
C-C	3	1	66	33	None
C-D	1	0	0	0	None
C-F-2	72	1	50	31	None
C-G	46	0	0	28	None
D-A	19	3	50	26	None
F-A	147	23	80	41	None
X-AUG	277	27	28	34	None

**TABLE 1**

**ABSTRACT OF EXAMINATIONS AND TESTS**

<b>Examination Category</b>	<b>Total Examinations Required For The Interval</b>	<b>Total Examinations Credited For This Period</b>	<b>Total Examinations Credited (%) For The Period</b>	<b>Total Examinations Credited (%) To Date For The Interval</b>	<b>Remarks</b>
B-P Pressure Test	25	2	21	28	None
C-H Pressure Test	264	81	92	33	None
DB Pressure Test	75	1	1	33	None

Notes:

- Note 1 - Numbers represent all B-G-1 bolting, this includes bolting which requires inspection only when removed.
- Note 2 - Numbers represent all B-G-2 bolting, this includes bolting which requires inspection only when removed.
- Note 3 - Examination only required if pump and valve are disassembled for maintenance.

**Table 2**

**Items With Flaws Or Relevant Conditions That Required Evaluations For Continued Service**

<b>Examination Category</b>	<b>Item Number</b>	<b>Item Description</b>	<b>Flaw Characterization (IWA-3300)</b>	<b>Flaw Or Relevant Condition Found During Scheduled Section XI Examination Or Test (Yes Or No)</b>
0	0	0	0	0

**Table 3**

**Abstract Of Repairs, Replacements, Or Corrective Measures Required For  
Continued Service**

<b>Code Class</b>	<b>Repair, Replacement, Or Corrective Measure</b>	<b>Item Description</b>	<b>Description Of Work</b>	<b>Flaw Or Relevant Condition Found During scheduled Section XI Examination Or Test (Yes Or No)</b>	<b>Date Completed</b>	<b>Repair/ Replacement Plan Number</b>
2	Repair	E12F018A	Apply weld overlay	Yes	5/8/02*	MAI298457
3	Repair	SP41B001A	Weld build-up	No	2/22/02*	MAI261213

\*This is the date the NIS-2A was completed.

NIS-2A

MAI279549, MAI306898, MAI272604, MAI286800, MAI298256, MAI309712, MAI323269, MAI307905, MAI316252, MAI292655, MAI321722, MAI320905, MAI281035, MAI268887, MAI302933, MAI285274, MAI275526, and MAI29906.



## **OPEN ITEMS NOTED**

This section lists open items identified during or before RF12.

<b>ITEM</b>	<b>DESCRIPTION</b>
N01B-KA	Entire Examination Volume Cannot Be Examined. Relief Request Pending.
N02F-KA	Entire Examination Volume Cannot Be Examined. Relief Request Pending.
N02G-KA	Entire Examination Volume Cannot Be Examined. Relief Request Pending.
N02H-KA	Entire Examination Volume Cannot Be Examined. Relief Request Pending.
N02J-KA	Entire Examination Volume Cannot Be Examined. Relief Request Pending.
N04C-KA	Entire Examination Volume Cannot Be Examined. Relief Request Pending.
N04D-KA	Entire Examination Volume Cannot Be Examined. Relief Request Pending.
N05A-KA	Entire Examination Volume Cannot Be Examined. Relief Request Pending.
N06A-KA	Entire Examination Volume Cannot Be Examined. Relief Request Pending.
N06B-KA	Entire Examination Volume Cannot Be Examined. Relief Request Pending.
N06C-KA	Entire Examination Volume Cannot Be Examined. Relief Request Pending.
N09A-KA	Entire Examination Volume Cannot Be Examined. Relief Request Pending.

REPORT NUMBER OAR-1-00004

INSERVICE INSPECTION SUMMARY REPORT

FOR

GRAND GULF NUCLEAR STATION UNIT 1

BALD HILL ROAD

PORT GIBSON, MS. 39150

COMMERCIAL OPERATION DATE: JULY 1, 1985

OWNER/OPERATOR

ENTERGY OPERATIONS, INC.

ECHELON ONE

P.O. BOX 31995

JACKSON, MS. 39286-1995

REPORT NUMBER OAR-1-00004

INSERVICE INSPECTION SUMMARY REPORT

FOR

GRAND GULF NUCLEAR STATION UNIT 1

BALD HILL ROAD

PORT GIBSON, MS. 39150

COMMERCIAL OPERATION DATE: JULY 1, 1985

OWNER/OPERATOR

ENTERGY OPERATIONS, INC.

ECHELON ONE

P.O. BOX 31995

JACKSON, MS. 39286-1995

PREPARED BY

Edward E. Burton  
RESP ENG (ISI)

APPROVED BY

Donald R. Bivins  
INSPECTOR (ANII)

APPROVED BY

[Signature]  
SUPERVISOR, CODE  
PROGRAMS

APPROVED BY

B. C. Lee  
SUPERVISOR, QUALITY  
INSPECTIONS/NDE

DOCUMENT COMPLETION  
DATE

8/15/2002

## INTRODUCTION

The Inservice Inspections performed between December 11, 1999 and May 5, 2001 were conducted, unless otherwise noted, in accordance with the ASME Boiler and Pressure Vessel Code Section XI 1992 Edition, with portions of the 1993 Addenda. In addition, the GGNS Unit I Inservice Inspection Plan is in compliance with the following Regulatory Guides, TB Bulletins, NUREGS, Standard Review Plans, and Code Cases

Regulatory Guide 1 147	Inservice Inspection Code Case Acceptability ASME Section XI, Division 1
Regulatory Guide 1 150	Ultrasonic Testing of Reactor Vessel Welds during Preservice and Inservice Inspection
NUREG 0619	BWR Feedwater Nozzle and Control Rod Drive Return Nozzle Cracking
SRP 3 6 2	Determination of Break Location and Dynamic Effects Associated with Postulated Rupture of piping (No Break Zone Exams)
Generic Letter 88-01	NRC Position on IGSCC in BWR Austenitic Stainless Steel Piping
SRP 3 6 2	Determination of Break Location and Dynamic Effect Associated with Postulated Rupture of Piping
Code Case N-307-1	Revised Ultrasonic Examination Volume for Class 1 Bolting Table IWB-2500, Examination Category B-G-1, when Examinations are Conducted From the Centered-Drilled Holes, Section XI, Division 1
Code Case N-335-1	Rules for Ultrasonic Examination of Similar and Dissimilar Metal Piping Welds (Inc W85)
Code Case N-416-1	Alternate Pressure Test Requirements for Welded Repairs or Installation of Replacement Items by Welding Class 1,2, and 3 - Section XI, Division 1
Code Case N-435-1	Alternate Examination Requirements for Vessels with Wall Thickness 2in for Less Section XI, Division 1
Code Case N-460-1	Alternative Examination Coverage for Class 1 and 2 Welds Section XI, Division 1
Code Case N-461	Alternative Rules for Piping Calibration Block Thickness Section XI, Division 1
Code Case N-496	Helical-Coil Threaded Inserts Section XI, Division 1

## INTRODUCTION (continued)

Code Case N-498-1	Alternative Rules 10-Year Hydrostatic Pressure Test for Class 1 and 2 Systems
Code Case N-508-1	Rotation of Service Snubbers and Relief Valves for the Purpose of Testing
Code Case N-513	Evaluation Criteria for Temporary Acceptance of Flaws in Class 3 Piping
Code Case N-532-1	Mechanical Clamping Devices for Class 2 and 3 Piping
Code Case N-524	Alternative Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping Section XI, Division 1
Code Case N-532	Alternative Requirements to Repair and Replacement Documentation Requirements and Inservice Summary Report Preparation and Submission as Required by IWA-4000 and IWA-6000, Section XI, Division 1
Code Case N-546	Alternate Requirements for Qualification of VT-2 Examination Personnel
Code Case N-435-1	Alternative Examination Requirements for Vessels with Wall Thickness 2 in or Less, Section XI Division I
Code Case N-524	Alternative Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping, Section XI, Division I
Code Case N-546	Alternative Requirements for Qualification of VT-2 Examination Personnel
Code Case N561-1	Proposed Use of an Alternative Repair Replacement Activity

During the course of the examinations, Entergy Operations, Inc controlled the examination activities through our established programs. Actual examinations were performed by Entergy Operations Quality Programs Inspectors working to GGNS procedures or contractor inspectors working to GGNS procedures or procedures approved for use by Entergy Operations. Factory Mutual Insurance Company served as the authorized inspection agency as defined in IWA-2130. Factory Mutual Insurance Company reviewed the applicable procedures, examined personnel certification records, witnessed selected inspections, and checked for general code compliance as specified by IWA-2110.

This report is presented as one volume divided into several sections as necessitated by the degree of detail required in ASME Section XI. Section XI requires that an Owner's Activity Report Form OAR-1 be prepared and certified upon the completion of each refueling outage. Each Form OAR-1 prepared during an inspection period shall be submitted to the NRC following the end of that inspection period.

## **INTRODUCTION (continued)**

Each OAR-1 shall contain the following an abstract of applicable examinations and tests, Table 1, a listing of item(s) with flaws or relevant conditions that require evaluation to determine acceptability for continued service (whether or not the flaw or relevant condition was discovered during a scheduled examination or test), Table 2, and an abstract of repairs, replacements, and corrective measures performed which were required due to an item containing a flaw or relevant condition that exceeded Section XI acceptance criteria, Table 3

**TABLE OF CONTENTS**

SECTION	I	OAR-1 – OWNERS ACTIVITY REPORT
SECTION	II	OPEN ITEMS RESOLUTION
SECTION	III	CODE CATEGORY SUMMARY

**SECTION I**

**OWNER'S ACTIVITY REPORT**



FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number OAR-I-00004

Owner Entergy Operations, Inc., Echelon One, P O Box 31995, Jackson Ms 39286-1995  
Name and Address of Owner

Plant Grand Gulf Nuclear Station, Bald Hill Road, Port Gibson, Ms 39150  
Name and Address of Owner

Unit No 1 Commercial Service Date July 1, 1985 Refueling Outage No 11  
(if applicable)

Current Inspection Interval 2nd  
1st, 2nd, 3rd, 4th, other

Current Inspection Period 1st  
1st, 2nd, 3rd

Edition and Addenda of Section XI applicable to the inspection plan 1992 Edition, with portions of 1993 Addenda

Date and revision of inspection plan May 22, 2000, Revision 13

Edition and Addenda of Section XI applicable to repairs and replacements different than the inspection plan N/A

OWNER'S CERTIFICATE OF CONFORMANCE

I certify that the statements made in this Owner's Activity Report are correct, and that the examinations, tests, repairs, replacements, evaluations, and corrective measures represented by this report conform to the requirements of Section XI

Certificate of Authorization No N/A Expiration Date N/A

Signed Edward E Bunker Repair and Replacement Coordinator Date 8/15/2002  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mississippi and employed by Factory Mutual Insurance Company of Johnson, RI have inspected the items described in this Owner's Activity Report during the period December 11, 1999 to May 5, 2001, and state that to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, repairs, replacements, evaluations, and corrective measures described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection

Donald R. Bivins Commissions NB 5560 N-I, Ms 3978  
Inspector's Signature National Board, State, Province, and Endorsements  
Date 8-15-02

**SECTION II**

**OPEN ITEMS RESOLUTION**

**OPEN ITEMS NOTED**

This section lists open items identified during or before RF11 and not resolved before issuing OAR-1-00004

ITEM	DESCRIPTION
B13-DA	Entire Examination Volume Cannot Be Examined Relief Request Pending
B13-DB	<i>Entire Examination Volume Cannot Be Examined Relief Request Pending</i>
B13-DC	Entire Examination Volume Cannot Be Examined Relief Request Pending
B13-DD	Entire Examination Volume Cannot Be Examined Relief Request Pending
B13-AE	Entire Examination Volume Cannot Be Examined Relief Request Pending
B13-N02B-KA	Entire Examination Volume Cannot Be Examined Relief Request Pending
B13-N02C-KA	Entire Examination Volume Cannot Be Examined Relief Request Pending
B13-N02D-KA	Entire Examination Volume Cannot Be Examined Relief Request Pending
B13-N02E-KA	Entire Examination Volume Cannot Be Examined Relief Request Pending
B13-N03A-KA	Entire Examination Volume Cannot Be Examined Relief Request Pending
B13-N03B-KA	Entire Examination Volume Cannot Be Examined Relief Request Pending
B13-N06A-KA	Entire Examination Volume Cannot Be Examined Relief Request Pending
B33G001W34	<i>Entire Examination Volume Cannot Be Examined Relief Request Pending</i>
B33G10-B1-A	Entire Examination Volume Cannot Be Examined Relief Request Pending
B33G10-B1-B	Entire Examination Volume Cannot Be Examined Relief Request Pending
E21C001-SB-1	Inaccessible Weld – Relief Pending
1E12G008R01	Exam Not Done – Credit Not Taken This Period

**SECTION III**

**CODE CATEGORY SUMMARY**

**TABLE 1****ABSTRACT OF EXAMINATIONS AND TESTS**

Examination Category	Total Examinations Required For The Interval	Total Examinations Credited For This Period	Total Examinations Credited (%) For The Period	Total Examinations Credited (%) To Date For The Interval	Remarks
B-A	28	9	100	32	N/A
B-D	70	22	100	31 <sup>1</sup>	N/A
B-F	28	8	100	29	N/A
B-G-1	39	4	100	7 5 <sup>2</sup>	N/A
B-G-2	42	2	100	4 <sup>2</sup>	N/A
B-J	270	86	100	32	N/A
B-H	1	0	0	0	N/A
B-K-1	9	2	100	22	N/A
B-L-2	2	0	0	N/A <sup>2</sup>	N/A
B-M-2	71	4	100	N/A <sup>2</sup>	N/A
B-N-1	1	1	100	33 3	N/A
B-O	1	0	0	0 <sup>1</sup>	N/A
C-A	2	1	100	50	N/A
C-B	4	2	100	50	N/A
C-C	3	1	100	33 3	N/A
C-D	1	0	0	0	N/A
C-F-2	72	22	100	30 5	N/A
C-G	46	13	100	28 2	N/A
D-A	9	2	100	22 2	N/A
F-A	147	38	100	25 8	N/A
X-AUG	277	88	100	31 8	N/A

<sup>1</sup> Relief Request E22C001-SB-3<sup>2</sup> These inspections are not tied to any particular period. They are performed and counted, as they are made available.<sup>3</sup> Not required until End of Interval

**TABLE 1**

**ABSTRACT OF EXAMINATIONS AND TESTS**

<b>Examination Category</b>	<b>Total Examinations Required For The Interval</b>	<b>Total Examinations Credited For This Period</b>	<b>Total Examinations Credited (%) For The Period</b>	<b>Total Examinations Credited (%) To Date For The Interval</b>	<b>Remarks</b>
B-P Pressure Test	14	3	100	21.4	N/A
C-H Pressure Test	240	81	100	33.75	N/A
DB Pressure Test	69	23	100	33.33	N/A
<b>TOTAL</b>	<b>1446</b>	<b>412</b>	<b>100<sup>4</sup></b>	<b>28.5</b>	<b>N/A</b>

---

<sup>4</sup> Total (Percentage) includes exams that require Relief Requests for being inaccessible

## CODE CATEGORY SUMMARY

### Abstract of Examinations - Reactor Pressure Vessel (RPV) and ASME Class 1 Components

The following is a summary of the results of In-service Inspection (ISI) conducted on the Grand Gulf Nuclear Station, Unit 1, Reactor Pressure Vessel (RPV) and ASME Class 1 components. The summary is itemized by the applicable code categories described in Table IWB-2500-1 of the ASME Section XI, 1992 Edition, with portions the 1993 Addenda. Grand Gulf Nuclear Station also committed to meeting the requirements of Regulatory Guide 1.150, Revision 1 for in-service inspection, although Regulatory Guide 1.150 was not applicable during the GGNS pre-service.

### **B13 Reactor Pressure Vessel - Volumetric Exam**

#### **Full Penetration Welded Nozzles in Vessels**

##### **B03.090 – Nozzle-To-Vessel Weld**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-D	Nozzle/Vessel	B13-N07-KA	RPV-11-1	Rel Req Pending
B-D	Nozzle/Vessel	B13-N08-KA	RPV-11-1	Rel Req Pending

##### **B03.100 – Nozzle-Inside Radius Section**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-D	Nozzle IR	B13-N08-IR	RPV-11-1	N/A
B-D	Nozzle IR	B13-N07-IR	RPV-11-1	N/A

#### **Pressure Retaining Bolting, Greater than Two Inches in Diameter**

##### **B06.020 Closure Studs In Place**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-G-1	1-25 Stud	B13 1 -25 Stud	RPV-11-1	N/A

##### **B06.030 Closure Studs Removed**

B-G-1	38-44 Stud	B13 38 -44 Stud	RPV 11-1	N/A
-------	------------	-----------------	----------	-----

Note Stud # 38 thru 44 (Cattle Chute Area)

##### **B06.040 – Threads in Flange**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-G-1	LIG-1-25	B13-LIG-1-25	RPV-11-1	N/A

## B13 Reactor Pressure Vessel - Visual Exam

### B06.010 Closure Head Nuts

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
B-G-1	1-25 Nut	B13 1-25 Nut	RPV-11-1	N/A

### B06.050 Closure Washers

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
B-G-1	Washer	B13 1-25 Washers	RPV-11-1	N/A

### B07.010 Reactor Vessel Bolts, Studs, and Nuts

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
B-G-2	Bolting	B13-N07 Bolting Material	RPV-11-1	N/A

## B21 Nuclear Boiler System

### Pressure Retaining Welds in Piping - Volumetric Exams

#### B09.011 Circumferential Welds (≥4")

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
B-J	Circumferential	B21G031W38	MS-11-1	N/A
B-J	Circumferential	B21G12-A1-A	MS-11-3	GG-ISI-001 Rev 0
B-J	Circumferential	B21G026W1	FW-11-1	N/A
B-J	Circumferential	B21G026W2	FW-11-1	GG-ISI-001 Rev 0
B-J	<i>Circumferential</i>	B21G026W17	FW-11-7	N/A
B-J	Circumferential	B21G026W18	FW-11-7	GG-ISI-001 Rev 0
B-J	Circumferential	B21G030W23	FW-8-2	N/A
B-J	Circumferential	B21G030W36	FW-8-4	N/A
B-J	Circumferential	B33G001W22	RR-11-5	N/A



**B21 Nuclear Boiler System**

**Pressure Retaining Welds in Piping –Volumetric**

**B09.011 Circumferential Welds (≥4”) (continued)**

B-J	Circumferential	B33G001W20	RR-11-5	N/A
B-J	Circumferential	E12G012W49	RH-11-1	N/A
B-J	Circumferential	E12G015W52	RH-11-10	N/A
B-J	Circumferential	E51G001W40	RI-11-4	N/A

**B21 Nuclear Boiler System**

**Pressure Retaining Welds in Piping –Surface Exams**

**B09.011 Circumferential Welds (≥4”)**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	B21G031W38	MS-11-1	N/A
B-J	Circumferential	B21G12-A1-A	MS-11-3	GG-ISI-001 Rev 0
B-J	Circumferential	B21G026W1	FW-11-1	N/A
B-J	Circumferential	B21G026W2	FW-11-1	GG-ISI-001 Rev 0
B-J	Circumferential	B21G026W17	FW-11-7	N/A
B-J	Circumferential	B21G026W18	FW-11-7	GG-ISI-001 Rev 0
B-J	Circumferential	B21G030W23	FW-8-2	N/A
B-J	Circumferential	B21G030W36	FW-8-4	N/A
B-J	Circumferential	B33G001W22	RR-11-5	N/A
B-J	Circumferential	B33G001W20	RR-11-5	N/A
B-J	Circumferential	E12G012W49	RH-11-1	N/A
B-J	Circumferential	E12G015W52	RH-11-10	N/A
B-J	Circumferential	E51G001W40	RI-11-4	N/A

**E32 Feedwater Leakage Control**

**Pressure Retaining Welds in Piping - Surface Exams**

**B09.021 Circumferential Welds (≤ 4”)**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	E32G121W1	IV-8-1	N/A

**B33 Reactor Recirculation System**

**Pressure Retaining Welds in Piping - Volumetric Exams**

**B09.031 Circumferential Welds (≥4")**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
B-J	Circumferential	B33G10-B1-F	RR-11-11	N/A
B-J	Circumferential	B33G10-B1-G	RR-11-11	N/A
B-J	Circumferential	B33G10-B1-H	RR-11-11	N/A

**Pressure Retaining Welds in Piping - Surface Exams**

**B09.031 Circumferential Welds (≥4")**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
B-J	Circumferential	B33G10-B1-F	RR-11-11	N/A
B-J	Circumferential	B33G10-B1-G	RR-11-11	N/A
B-J	Circumferential	B33G10-B1-H	RR-11-11	N/A

**B21 Feedwater System**

**Pressure Retaining Welds in Piping - Surface Exams**

**B09.032 Circumferential Weld (<4")**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
B-J	Circumferential	B21G030-5-8-1	FW-8-2	N/A

**B21 Mainsteam System**

**Pressure Retaining Welds in Piping - Surface Exams**

**B09.040 Socket Welds**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
B-J	Socket Weld	B21G116W15	MS-8-5	N/A
B-J	Socket Weld	B21G116W17	MS-8-5	N/A

**C41 Standby Liquid Control System**

**Integral Attachment - Surface Exams**

**B10.010 Integrally Welded Attachment**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
B-K-1	Att Weld	C41G120W11	LC-11-8	N/A

**B13 Nuclear Boiler System**

**Vessel Interior -VT-3**

**B13.010 Vessel Interior**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
B-N-1	Interior Visual	B13-D001-RPV	RPV-11-1	N/A

CODE CATEGORY SUMMARY

**Abstract of Examination (Piping Welds, Components and Supports)**

The following is an overall summary of the results of In-service Inspection (ISI) conducted on Grand Gulf Nuclear Station, Unit 1 ASME Class 2 and 3 piping pressure boundary welds, components and supports. The summary is itemized by the applicable Code Categories described in Table IWC-2500-1 and IWD-2500-1 of ASME Section XI, 1992 Edition, with portions of the 1993 Addenda.

**E12 Residual Heat Removal**

**Pressure Retaining Welds in Pressure Vessels - Volumetric Exams**

**C01.030 Head Circumferential Welds (Tubesheet-to-Shell Weld)**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-A	Circumferential	E12B001A-C-1	RH-7-19	N/A

**Pressure Retaining Nozzle Welds in Vessels - Volumetric Exams**

**C02.021 Nozzle-to Shell (or Head) Weld**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-B	Nozzle/Shell	E12B001A-N4	RH-7-19	N/A

**C02.022 Nozzle Inside Radius Section**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-B	Nozzle IR	E12B001A-N4	RH-7-19	N/A

**Pressure Retaining Welds in Pressure Vessels - Surface Exams**

**C02.021 Nozzle-to Shell (or Head) Weld**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-B	Nozzle/Shell	E12B001A-N4	RH-7-19	N/A

**C02.022 Nozzle Inside Radius Section**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-B	Nozzle IR	E12B001A-N4	RH-7-19	N/A

**E12 Residual Heat Removal System**

**Integral Attachment for Vessels, Piping, Pumps, and Valves - Surface Exams**

**C03.020 Integral Attachment**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-C	Att Weld	E12G012H15	RH-7-16	N/A

**B21 Feedwater System**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Volumetric Exam**

**C05.051 - Circumferential Welds**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-F	Circumferential	B21G030W20	FW-8-1	N/A

**C11 CRD Hydraulic System**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Volumetric Exam**

**C05.051 - Circumferential Welds**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-F	Circumferential	C11G1010-40	RD-11-1	N/A
C-F	Circumferential	C11G1010W61	RD-11-1	N/A

**E12 Residual Heat Removal System**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Volumetric Exam**

**C05.051 Circumferential Weld**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-F-2	Circumferential	E12G009W5	RH-7-22	N/A
C-F-2	Circumferential	E12G009W6	RH-7-22	N/A
C-F-2	Circumferential	E12G009W22	RH-7-22	N/A
C-F-2	Circumferential	E12G009-8-7-1	RH-7-22	N/A
C-F-2	Circumferential	E12G009-9-7-1	RH-7-22	N/A
C-F-2	Circumferential	E12G009-9-7-2	RH-7-22	N/A
C-F-2	Circumferential	E12G014W30	RH-8-19	N/A

**E12 Residual Heat Removal System**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Volumetric Exam**

**C05.051 Circumferential Weld (continued)**

C-F-2	Circumferential	E12G014W23	RH-8-19	N/A
C-F-2	Circumferential	E12G014-15-8-6	RH-8-19	N/A
C-F-2	Circumferential	E12G021-9-8-1	RH-8-2	N/A

**E21 Low Pressure Core Spray**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Volumetric Exam**

**C05.051 Circumferential Weld**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
C-F-2	Circumferential	E21G001-8-9-1	LP-9-4	N/A

**E22 High Pressure Core Spray**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Volumetric Exam**

**C05.051 Circumferential Weld**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
C-F-2	Circumferential	E22G001W5	HP-8-10	N/A
C-F-2	Circumferential	E22G001W73	HP-8-10	N/A

**E51 Reactor Core Isolation Cooling**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Volumetric Exam**

**C05.051 Circumferential Weld**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
C-F-2	Circumferential	E51G003W54	RI-8-19	N/A
C-F-2	Circumferential	E51G003W55	RI-8-19	N/A
C-F-2	Circumferential	E51G004W19	RI-8-1	N/A
C-F-2	Circumferential	E51G004-7-8-6	RI-8-1	N/A
C-F-2	Circumferential	E51G004-7-8-5	RI-8-1	N/A

**B21 Feedwater System**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Surface Exam**

**C05.051 - Circumferential Welds**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
C-F	Circumferential	B21G030W20	FW-8-1	N/A

**C11 CRD Hydraulic System**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Surface Exam**

**C05.051 - Circumferential Welds**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
C-F	Circumferential	C11G1010-40	RD-11-1	N/A
C-F	Circumferential	C11G1010W61	RD-11-1	N/A

**E12 Residual Heat Removal System**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Surface Exam**

**C05.051 Circumferential Weld**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
C-F-2	Circumferential	E12G009W5	RH-7-22	N/A
C-F-2	Circumferential	E12G009W6	RH-7-22	N/A
C-F-2	Circumferential	E12G009W22	RH-7-22	N/A
C-F-2	Circumferential	E12G009-8-7-1	RH-7-22	N/A
C-F-2	Circumferential	E12G009-9-7-1	RH-7-22	N/A
C-F-2	Circumferential	E12G009-9-7-2	RH-7-22	N/A
C-F-2	Circumferential	E12G014W30	RH-8-19	N/A
C-F-2	Circumferential	E12G014W23	RH-8-19	N/A
C-F-2	Circumferential	E12G014-15-8-6	RH-8-19	N/A
C-F-2	Circumferential	E12G021-9-8-1	RH-8-2	N/A

**E21 Low Pressure Core Spray**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Surface Exam**

**C05.051 Circumferential Weld**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-F-2	Circumferential	E21G001-8-9-1	LP-9-4	N/A

**E22 High Pressure Core Spray**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Surface Exam**

**C05.051 Circumferential Weld**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-F-2	Circumferential	E22G001W5	HP-8-10	N/A
C-F-2	Circumferential	E22G001W73	HP-8-10	N/A

**E51 Reactor Core Isolation Cooling**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Surface Exam**

**C05.051 Circumferential Weld**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-F-2	Circumferential	E51G003W54	RI-8-19	N/A
C-F-2	Circumferential	E51G003W55	RI-8-19	N/A
C-F-2	Circumferential	E51G004W19	RI-8-1	N/A
C-F-2	Circumferential	E51G004-7-8-6	RI-8-1	N/A
C-F-2	Circumferential	E51G004-7-8-5	RI-8-1	N/A

**E12 Residual Heat Removal System**

**Pressure Retaining Welds in Carbon or Low Allow Steel Piping – Surface Exam**

**C05.081 Circumferential Weld**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-F-2	Circumferential	E12G010-7-8-5	RH-8-12	N/A



**E12 Residual Heat Removal System**

**Pressure Retaining Welds in Pumps and Valves – Surface Exam**

**C06.010 Pump Casing welds**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-G	Pump/Casing	E12C002B-DH-5		N/A
C-G	Pump/Casing	E12C002B-DH-3		N/A
C-G	Pump/Casing	E12C002B-DH-2		N/A
C-G	Pump/Casing	E12C002B-DH-4		N/A

**E21 Low Pressure Core Spray System**

**Pressure Retaining Welds in Pumps and Valves – Surface Exam**

**C06.010 Pump Casing welds**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-G	Pump/Casing	E21C001-DH-4		N/A
C-G	Pump/Casing	E21C001-DH-3		N/A
C-G	Pump/Casing	E21C001-DH-2		N/A
C-G	Pump/Casing	E21C001-DH-5		N/A
C-G	Pump/Casing	E21C001-DH-1		N/A

**E22 High Pressure Cory Spray System**

**Pressure Retaining Welds in Pumps and Valves – Surface Exam**

**C06.010 Pump Casing welds**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
C-G	Pump/Casing	E22C001-DH-2		N/A
C-G	Pump/Casing	E22C001-DH-3		N/A
C-G	Pump/Casing	E22C001-DH-4		N/A
C-G	Pump/Casing	E22C001-DH-1		N/A
C-G	Pump/Casing	E21C001-SB-1		Rel Req Pending

**P41 Standby Service Water System**

**Integral Attachment for Vessels, Piping, pumps, and Valves – Visual Exam**

**F1.030 Pumps – Integrally Welded Attachments**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
D-A	Att Weld	P41G008C11	WS-12-4	N/A

**C41 Standby Liquid Control System**

**Supports Class 1 – Visual Exam**

**F1.10 Class 1 Piping Supports**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
F-A	Support	C41G124R04	LC-11-7	N/A

**E22 High Pressure Cory Spray System**

**Supports Class 1 – Visual Exam**

**F1.10 Class 1 Piping Supports**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
F-A	Support	E22G003H01	HP-11-3	N/A

**C11 Control Rod Drive System**

**Supports Class 2 – Visual Exam**

**F1.20 Class 2 Piping Supports**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
F-A	Support	C11ASP9	RD-11-2	N/A
F-A	Support	C11ASP10	RD-11-2	N/A

**E12 Residual Heat Removal System**

**Supports Class2 – Visual Exam**

**F1.20 Class 2 Piping Supports**

F-A	Support	E12G013H01	RH-7-9	N/A
F-A	Support	E12G012H15	RH-7-16	N/A
F-A	Support	E12G015R03	RH-11-12	N/A
F-A	Support	E12G015R20	RH-11-17	N/A

**E22 High Pressure Cory Spray System**

**Supports Class2 – Visual Exam**

**F1.20 Class 2 Piping Supports**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
F-A	Support	E22G002R01	HP-8-13	N/A

**E51 High Pressure Core Spray System**

**Supports Class2 – Visual Exam**

**F1.20 Class 2 Piping Supports**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
F-A	Support	E51G004R04	RI-8-3	N/A

**P41 Standby Service Water System**

**Supports Class 3 – Visual Exam**

**F1.030 Supports - Class 3 Visual Exams**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
F-A	Support	P41G001H01	WS-7-3	N/A
F-A	Support	P41G005A01	WS-9-6	N/A
F-A	Support	P41G005R01	WS-9-3	N/A
F-A	Support	P41G008C11	WS-12-4	N/A

**E51 Reactor Control Isolation Cooling**

**Supports Other Than Piping Supports – Visual Exam**

**F1.040 Supports - Visual Exams**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
F-A	Support	E51C001-S1	RI-8-12	N/A
F-A	Support	E51C001-S2	RI-8-12	N/A
F-A	Support	E51C001-S3	RI-8-12	N/A
F-A	Support	E51C001-S4A	RI-8-12	N/A
F-A	Support	E51C001-S4B	RI-8-12	N/A
F-A	Support	E51C001-S4C	RI-8-12	N/A
F-A	Support	E51C001-S4D	RI-8-12	N/A

**P41 Standby Service Water System**

**Supports Other Than Piping Supports – Visual Exam**

**F1.040 Supports - Visual Exams**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
F-A	Support	P41C001A-S1	WS-YD-2	N/A
F-A	Support	P41C002-S1	WS-YD-4	N/A

**B21 Nuclear Boiler/Mainsteam/Feedwater System(s)**

**Pressure Retaining Welds in Piping – Volumetric Exam**

**X-AUG Circumferential Volumetric Exam**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
X-AUG	Circumferential	B21G030D100A-5	FW-8-1	N/A
X-AUG	Circumferential	B21G030W18	FW-8-1	N/A
X-AUG	Circumferential	B21G030W21	FW-8-2	N/A
X-AUG	Circumferential	B21G030W22	FW-8-2	N/A
X-AUG	Circumferential	B21G030W33	FW-8-3	N/A
X-AUG	Circumferential	B21G030W67	FW-8-4	N/A
X-AUG	Circumferential	B21G030W68	FW-8-4	N/A
X-AUG	Circumferential	B21G030W70	FW-8-4	N/A

**B21 Nuclear Boiler/Mainsteam/Feedwater System(s)**

**Pressure Retaining Welds in Piping – Volumetric Exam**

**X-AUG Circumferential Volumetric Exam (continued)**

X-AUG	Circumferential	B21G031-29-8-1	MS-8-1	N/A
X-AUG	Circumferential	B21G031W20	MS-8-4	N/A
X-AUG	Circumferential	B21G031W39	MS-8-1	N/A
X-AUG	Circumferential	B21G031W40	MS-8-1	N/A
X-AUG	Circumferential	B21G031W41	MS-8-1	N/A
X-AUG	Circumferential	B21G031-28-8-1	MS-8-1	N/A

**E12 Residual Heat Removal System**

**Pressure Retaining Welds in Piping – Volumetric Exam**

**X-AUG Circumferential Volumetric Exam**

X-AUG	Circumferential	E12G021-D011-A-1	RH-8-1	N/A
X-AUG	Circumferential	E12G021-D011-B-1	RH-8-1	N/A
X-AUG	Circumferential	E12G021W54	RH-8-2	N/A
X-AUG	Circumferential	E12G021W62	RH-8-2	N/A
X-AUG	Circumferential	E12G021W66	RH-8-5	N/A
X-AUG	Circumferential	E12G021-9-8-2	RH-8-2	N/A
X-AUG	Circumferential	E12G021-9-8-3	RH-8-2	N/A
X-AUG	Circumferential	E12G021-9-8-4	RH-8-2	N/A
X-AUG	Circumferential	E12G021-9-8-5	RH-8-2	N/A
X-AUG	Circumferential	E12G021-21-8-1	RH-8-5	N/A
X-AUG	Circumferential	E12G021-21-8-2	RH-8-5	N/A
X-AUG	Circumferential	E12G021-21-8-3	RH-8-5	N/A
X-AUG	Circumferential	E12G021-21-8-4	RH-8-5	N/A
X-AUG	Circumferential	E12G021-21-8-5	RH-8-5	N/A
X-AUG	Circumferential	E12G021-21-8-6	RH-8-5	N/A

**E51 Reactor Core Isolation Cooling System****Pressure Retaining Welds in Piping – Volumetric Exam****X-AUG Circumferential Volumetric Exam**

X-AUG	Circumferential	E51G004W7	RI-11-3	GG-ISI-001 Rev 0
X-AUG	Circumferential	E51G004W8	RI-8-1	N/A
X-AUG	Circumferential	E51G004W9	RI-8-1	N/A
X-AUG	Circumferential	E51G004W11	RI-8-1	N/A
X-AUG	Circumferential	E51G004W20	RI-8-5	N/A
X-AUG	Circumferential	E51G004W29	RI-8-1	N/A
X-AUG	Circumferential	E51G004-7-8-4	RI-8-1	N/A
X-AUG	Circumferential	E51G004-7-8-7	RI-8-1	N/A
X-AUG	Circumferential	E51G004-7-8-8	RI-8-1	N/A
X-AUG	Circumferential	E51G004-7-8-9	RI-8-1	N/A
X-AUG	Circumferential	E51G004-8-8-1	RI-8-2	N/A
X-AUG	Circumferential	E51G004-8-8-2	RI-8-2	N/A
X-AUG	Circumferential	E51G004-15-8-1	RI-8-5	N/A
X-AUG	Circumferential	E51G004-15-8-3	RI-8-5	N/A
X-AUG	Circumferential	E51G004-15-8-4	RI-8-5	N/A
X-AUG	Circumferential	E51G004-15-8-6	RI-8-5	N/A

**G33 Reactor Water Cleanup System****Pressure Retaining Welds in Piping – Volumetric Exam****X-AUG Circumferential Volumetric Exam**

X-AUG	Circumferential	G33G010W7	CU-11-5	N/A
X-AUG	Circumferential	G33G010W8	CU-11-5	N/A
X-AUG	Circumferential	G33G002W20	CU-8-5	N/A
X-AUG	Circumferential	G33G002W22	CU-8-6	N/A
X-AUG	Circumferential	G33G002W54	CU-11-8	N/A
X-AUG	Circumferential	G33G002W53	CU-11-8	N/A

**G33 Reactor Water Cleanup System**

**Pressure Retaining Welds in Piping – Volumetric Exam**

**X-AUG Circumferential Volumetric Exam (continued)**

X-AUG	Circumferential	G33G002W174	CU-8-5	N/A
X-AUG	Circumferential	G33G002W175	CU-8-6	N/A
X-AUG	Circumferential	G33G002W176	CU-8-6	N/A
X-AUG	Circumferential	G33G002W179	CU-8-7	N/A
X-AUG	Circumferential	G33G002-26-8-1	CU-8-6	N/A
X-AUG	Circumferential	G33G002-26-8-2	CU-8-6	N/A
X-AUG	Circumferential	G33G002-26-8-3	CU-8-6	N/A
X-AUG	Circumferential	G33G002-26-8-4	CU-8-6	N/A
X-AUG	Circumferential	G33G002-62-8-1	CU-8-6	N/A
X-AUG	Circumferential	G33G002-62-8-3	CU-8-6	N/A
X-AUG	Circumferential	G33G002-62-8-4	CU-8-6	N/A

**B21/E32 System(s)**

**Pressure Retaining Welds in Piping – Surface Exam**

**X-AUG – Circumferential Welds**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
X-AUG	Circumferential	B21G230W16	FW-8-5	N/A
X-AUG	Circumferential	B21G021W9	SD-11-2	N/A
X-AUG	Circumferential	B21G021W10	SD-8-1	N/A
X-AUG	Circumferential	B21G021W11	SD-8-1	N/A
X-AUG	Circumferential	E32G121W32	IV-8-1	N/A

## CODE CATEGORY SUMMARY

### Abstract of System Hydrostatic Test Examinations Second Interval

The following is an overall summary of Inservice Inspection (ISI) for System Hydrostatic Testing conducted at Grand Gulf Nuclear Station. The summary is itemized by the applicable Code Categories described in Table IWB-2500-1, IWC-2500-1 and IWD-2500-1 of ASME Section XI, 1992 Edition, with portions of 1993 Addenda. The term "Pressure Test Zone" refers to the actual system pressure test that actually placed the applicable portion of the system in the condition required for the VT-2.

### Code Category B-P (Pressure Retaining Components)

#### Item(s) B15.10 – Reactor Vessel, B15.50 – Piping, B15.60 – Pumps, B15.70 – Valves

System Number	Pressure Test Zone Number
Various	03-1-01-6

### Code Category C-H (Pressure Retaining Components)

#### Item(s) C7.10 – Pressure Vessels, C7.30 – Piping, C7.50 – Pumps, C7.70 – Valves

System Number	Pressure Test Zone Number
B21, E12, G33, E51, E32, E38	P-1077-01
B21, B33, C11, E12, E21, E22, E31, E32, E38, E51, G33	P-1077-02
B21	P-1077-05
B21	P-1077-06
B21	P-1077-07
B21	P-1077-08
B33	P-1078-01
B33	P-1078-02
B33	P-1078-03
B33	P-1078-04
C41	P-1082-01
C41	P-1082-02
C41	P-1082-03



**Code Category C-H - Pressure Retaining Components (continued)**

**Item(s) C7.10 – Pressure Vessels, C7.30 – Piping, C7.50 – Pumps, C7.70 - Valves**

<b>System Number</b>	<b>Pressure Test Zone Number</b>
C41	P-1082-04
C41	P-1082-05
C41	P-1082-06
E51	P-1083-01
E51	P-1083-02
E51	P-1083-03
E51	P-1083-05
E12	P-1085-02
E12	P-1085-03
E12	P-1085-06
E12	P-1085-07
E12	P-1085-08
E12	P-1085-10
E12	P-1085-11
E12, E51	P-1085-15
E22	P-1086-01
E21	P-1087-02
E61	P-1091-01
E61	P-1091-02
E61	P-1091-03
E61	P-1091-04
E61	P-1091-07
E61	P-1091-08
E61	P-1091-11
E61	P-1091-12
E61	P-1091-13
E61	P-1091-14
E61	P-1091-15

**Code Category C-H - Pressure Retaining Components (continued)**

**Item(s) C7.10 – Pressure Vessels, C7.30 – Piping, C7.50 – Pumps, C7.70 – Valves**

<b>System Number</b>	<b>Pressure Test Zone Number</b>
E61	P-1091-16
E61	P-1091-17
E61	P-1091-18
E30	P-1096-01
E30	P-1096-02
E30	P-1096-03
E30	P-1096-04
E30	P-1096-05
E30	P-1096-06
E32	P-1097-01
E32	P-1097-02
M71	P-1110A-01
M71	P-1110A-02
M71	P-1110A-03
M71	P-1110A-04
M71	P-1110A-05
M71	P-1110A-06
M71	P-1110A-07
M71	P-1110A-08
E38	P-1112-01
E38	P-1112-02
C11	P-C11-01
G36	P-G36-01
M41	P-M41-01
M41	P-M41-02
P11	P-P11-01
P11	P-P11-02

**Code Category C-H - Pressure Retaining Components (continued)**

**Item(s) C7.10 – Pressure Vessels, C7.30 – Piping, C7.50 – Pumps, C7.70 – Valves**

<b>System Number</b>	<b>Pressure Test Zone Number</b>
P21	P-P21-01
P45	P-P45-01
P45	P-P45-02
P45	P-P45-03
P45	P-P45-04
P52	P-P52-01
P53	P-P53-01
P53	P-P53-02
P60	P-P60-01
P71	P-P71-01
P71	P-P71-02
P72	P-P72-01
P72	P-P72-02

**Code Category D-B (Pressure Retaining Components)**

**Item(s) D2.10 – Pressure Vessels, D2.30 – Piping, D2.50 – Pumps, D2.70 – Valves**

<b>System Number</b>	<b>Pressure Test Zone Number</b>
P41	P-1061-01
P41	P-1061-02
P41	P-1061-03
P41	P-1061-04
P41	P-1061-05
P41	P-1061-06
P42	P-1063-01
P75	P-1070-01
P75	P-1070-02
P75	P-1070-03

**Code Category D-B - Pressure Retaining Components (continued)**

**Item(s) D2.10 – Pressure Vessels, D2.30 – Piping, D2.50 – Pumps, D2.70 – Valves**

<b>System Number</b>	<b>Pressure Test Zone Number</b>
P75	P-1070-04
P75	P-1070-05
P75	P-1070-06
B21	P-1077-03
B21	P-1077-04
E12	P-1085-09
G41	P-1088-01
G41	P-1088-02
G41	P-1088-03
G41	P-1088-04
P81	P-1093-01
P81	P-1093-02
P81	P-1093-03

## Abstract Of Examination - Class I Valve

### A Code Requirements

The internal surfaces of ASME Class I valve internals larger than 4 inches shall be visually inspected once each ten interval in accordance with ASME Section XI, Table IWB-2500, Examination Category B-M-2, Item B12 50

### B Inservice Inspection

Applicable inservice inspections are to be performed in accordance with the requirements of ASME Section XI, 1992 Edition, with portions of the 1993 Addenda Note 3 of Table IWB-2500-1 states, "Examinations are limited to at least one valve within each group of valves that are of the same size, constructional design (such as globe, gate, or check valve) and manufacturing method, and that perform similar functions in the system (such as containment isolation and system overpressure protection)

Grand Gulf grouped all Class I valves in accordance with the above criteria from Note 3 Inspection of any one- (1) valve in any particular group will satisfy inspection requirements for that particular group ISI credit will be taken for only one valve per group Should disassembly of a valve be required earlier than the third period, an inspection may be performed at that time to fulfill code requirements

The examination is required for the valve internal surfaces only and does not include the internal components of the valve

### C Groupings

There are sixteen groups of valves at Grand Gulf Nuclear Station The following is the status of each group

- Group #1 - Contains two 24" piston check valves To date, none of the group has been inspected
- Group #2 - Contains two 24" gate valves To date, none of the group has been inspected
- Group #3 - Contains four 14" gate valves To date, none of the group has been inspected
- Group #4 - Contains two 24" swing check To date, none of the group has been inspected
- Group #5 - Contains four 14" swing check valves To date, none of the group has been inspected
- Group #6 - Contains eight 28" globe valves To date, one of the valves has been inspected has been VT-3 examined and was found acceptable The requirement of Section XI for Group #6 has been satisfied
- Group #7 - Contains two 6" globe valves To date, none of the group has been inspected
- Group #8 - Contains twenty 8" main steam safety relief valves To date, none of the group has been inspected
- Group #9 - Contains four 24" gate valves To date, none of the group has been inspected

**Abstract Of Examination - Class I Valve (continued)**

Group #10 - Contains two 24" ball valves To date, one of the valves has been inspected, to the extent practicable, and was found acceptable The requirement of Section XI for Group #10 has been satisfied

Group #11 - Contains two 20" gate valves To date, one of the valves has been inspected, to the extent practicable, and was found acceptable The requirement of Section XI for Group #11 has been satisfied

Group #12 - Contains three 14" gate valves To date, none of the group has been inspected

Group #13 - Contains two 12" gate valves To date, none of the group has been inspected

Group #14 - Contains two 10" gate valves To date, none of the group has been inspected

Group #15 - Contains seven 6" gate valves To date, none of the group has been inspected

Group #16 - Contains five unique valves Examination of each unique valve is required a maximum of one time during the ten year interval To date, none of the group has been inspected

**Abstract Of Examination - Class I Valve Summary**

Total number of credited visual exams performed this time frame	3
Total number of visual exams required for the Ten Year Interval	16
Total number of visual exams performed for the Ten Year Interval	6
Percentage of Ten Year Interval requirements completed	37.5

**TABLE 2**

**ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED  
EVALUATION FOR CONTINUED SERVICE**

<b>Examination Category</b>	<b>Item Number</b>	<b>Item Description</b>	<b>Flaw Characterization (IWA-3300)</b>	<b>Flaw or Relevant Condition Found During Scheduled Section XI Examination (Yes or No)</b>
N/A	N/A	N/A	N/A	N/A

**TABLE 3**

**ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES  
REQUIRED FOR CONTINUED SERVICE**

<b>Code Class</b>	<b>Repair, Replacement, or Corrective Measure</b>	<b>Item Description</b>	<b>Description of Work</b>	<b>Flaw or Relevant Condition Found During Scheduled Section XI Examination (Yes or No)</b>	<b>Date Completed</b>	<b>Repair/Replacement Plan Number</b>
N/A	N/A	N/A	N/A	N/A	N/A	N/A



REPORT NUMBER OAR-1-00003

INSERVICE INSPECTION SUMMARY REPORT

FOR

GRAND GULF NUCLEAR STATION UNIT 1

BALD HILL ROAD

PORT GIBSON, MS. 39150

COMMERCIAL OPERATION DATE: JULY 1, 1985

OWNER/OPERATOR

ENTERGY OPERATIONS, INC.

ECHELON ONE

P.O. BOX 31995

JACKSON, MS. 39286-1995

REPORT NUMBER OAR-1-00003

INSERVICE INSPECTION SUMMARY REPORT

FOR

GRAND GULF NUCLEAR STATION UNIT 1

BALD HILL ROAD

PORT GIBSON, MS. 39150

COMMERCIAL OPERATION DATE: JULY 1, 1985

OWNER/OPERATOR

ENTERGY OPERATIONS, INC.

ECHELON ONE

P.O BOX 31995

JACKSON, MS. 39286-1995

PREPARED BY

*W.B. Rice*

RESP ENG (ISI)

APPROVED BY

*Arnold R. Bivins*

INSPECTOR (ANII)

APPROVED BY

*Ken L. ...*

SUPERVISOR, CODE  
PROGRAMS

APPROVED BY

*Bruce C. Lee*

SUPERVISOR, QUALITY  
INSPECTIONS/NDE

DOCUMENT COMPLETION  
DATE

6/18/2001

## INTRODUCTION

The Inservice Inspections performed between December 11, 1999 and May 5, 2001 were conducted, unless otherwise noted, in accordance with the ASME Boiler and Pressure Vessel Code Section XI 1992 Edition, with portions of the 1993 Addenda. In addition, the GGNS Unit 1 Inservice Inspection Plan is in compliance with the following Regulatory Guides, IE Bulletins, NUREGS, Standard Review Plans, and Code Cases

Regulatory Guide 1.147	Inservice Inspection Code Case Acceptability ASME Section XI, Division 1
Regulatory Guide 1.150	Ultrasonic Testing of Reactor Vessel Welds during Preservice and Inservice Inspection
NUREG 0619	BWR Feedwater Nozzle and Control Rod Drive Return Nozzle Cracking
SRP 3 6 2	Determination of Break Location and Dynamic Effects Associated with Postulated Rupture of piping (No Break Zone Exams).
Generic Letter 88-01	NRC Position on IGSCC in BWR Austenitic Stainless Steel Piping.
Code Case N-307-1	Revised Ultrasonic Examination Volume for Class 1 Bolting Table IWB-2500, Examination Category B-G-1, when Examinations are Conducted From the Centered-Drilled Holes, Section XI, Division 1
Code Case N-335-1	Rules for Ultrasonic Examination of Similar and Dissimilar Metal Piping Welds (Inc W85)
Code Case N-416-1	Alternate Pressure Test Requirements for Welded Repairs or Installation of Replacement Items by Welding Class 1,2, and 3 - Section XI, Division 1
Code Case N-435-1	Alternate Examination Requirements for Vessels with Wall Thickness 2in or Less Section XI, Division 1
Code Case N-460	Alternative Examination Coverage for Class 1 and 2 Welds Section XI, Division 1
Code Case N-461	Alternative Rules for Piping Calibration Block Thickness Section XI, Division 1
Code Case N-496	Helical-Coil Threaded Inserts Section XI, Division 1

Code Case N-498-1	Alternative Rules 10-Year Hydrostatic Pressure Test for Class 1 and 2 Systems
Code Case N-508-1	Rotation of Service Snubbers and Relief Valves for the Purpose of Testing
Code Case N-509	Alternative Rules for the Selection and Examination of Class 1,2 and 3 Integrally Welded Attachments, Section XI, Division I
Code Case N-524	Alternative Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping Section XI, Division I
Code Case N-532	Alternative Requirements to Repair and Replacement Documentation Requirements and Inservice Summary Report Preparation and Submission as Required by IWA-4000 and IWA-6000, Section XI, Division I
Code Case N-546	Alternate Requirements for Qualification of VT-2 Examination Personnel

During the course of the examinations, Entergy Operations, Inc controlled the examination activities through our established programs. Actual examinations were either performed by Entergy Operations Quality Programs Inspectors working to GGNS procedures or contractor inspectors working to GGNS procedures or procedures approved for use by Entergy Operations. Arkwright Mutual Insurance Company or Factory Mutual Insurance Company served as the authorized inspection agency as defined in IWA-2130. By this arrangement, Arkwright Mutual Insurance Company or Factory Mutual Insurance Company reviewed the applicable procedures, examined personnel certification records, witnessed selected inspections, and checked for general code compliance as specified by IWA-2120.

This report is being presented as one volume divided into several sections as necessitated by the degree of detail required in ASME Section XI. Section XI requires that an Owner's Activity Report Form OAR-1 shall be prepared and certified upon the completion of each refueling outage and that each Form OAR-1 prepared during an inspection period shall be submitted to the NRC following the end of that inspection period. Each OAR-1 shall contain the following: an abstract of applicable examinations and tests, Table 1, a listing of item(s) with flaws or relevant conditions that require evaluation to determine acceptability for continued service (whether or not the flaw or relevant condition was discovered during a scheduled examination or test), Table 2, and an abstract of repairs, replacements, and corrective measures performed which were required due to an item containing a flaw or relevant condition that exceeded Section XI acceptance criteria, Table 3.

with flaws or relevant conditions that require evaluation to determine acceptability for continued service (whether or not the flaw or relevant condition was discovered during a scheduled examination or test), Table 2; and an abstract of repairs, replacements, and corrective measures performed which were required due to an item containing a flaw or relevant condition that exceeded Section XI acceptance criteria, Table 3. For that purpose, Section I contains the owner's Activity Report, Form OAR-1, Table 1, Table 2, and Table 3. Section II provides information pertaining to the resolution of open items contained in THE Inservice Inspection Summary. Section III contains a code category summary. Section IV contains drawings/isometrics applicable to the components examined.

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number OAR-1-00003

Owner Entergy Operations, Inc , Echelon One, P O Box 31995, Jackson Ms 39286-1995

Name and Address of Owner

Plant Grand Gulf Nuclear Station, Bald Hill Road, Port Gibson, Ms 39150

Name and Address of Owner

Unit No 1 Commercial Service Date July 1, 1985 Refueling Outage No 10  
(if applicable)

Current Inspection Interval 2nd  
1st, 2nd, 3rd, 4th, other

Current Inspection Period 1st  
1st, 2nd, 3rd

Edition and Addenda of Section XI applicable to the inspection plan 1992 Edition, with portions of 1993 Addenda

Date and revision of inspection plan October 7, 1999, Revision 12

Edition and Addenda of Section XI applicable to repairs and replacements different than the inspection plan N/A

OWNER'S CERTIFICATE OF CONFORMANCE

I certify that the statements made in this Owner's Activity Report are correct, and that the examinations, tests, repairs, replacements, evaluations, and corrective measures represented by this report conform to the requirements of Section XI

Certificate of Authorization No N/A Expiration Date N/A

Signed [Signature], Repair and Replacement Coordinator Date 6-28-01  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mississippi and employed by Arkwright Mutual Insurance Company of Waltham, Ma have inspected the items described in this Owner's Activity Report during the period May 22, 1998 to December 10, 1999, and state that to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, repairs, replacements, evaluations, and corrective measures described in this report Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection

[Signature] Commissions Ms 3978, N-1  
Inspector's Signature National Board, State, Province, and Endorsements  
Date 6-28-01

**SECTION II**

**OPEN ITEMS RESOLUTION**

## Open Items Noted

This section lists items identified during RF10 the reporting period for OAR-1-00003 and not resolved before issuing OAR-1-00003

- 1 B13-DA - Entire Examination Volume Cannot Be Examined Relief Request Pending
- 2 B13-DB - Entire Examination Volume Cannot Be Examined. Relief Request Pending
- 3 B13-DC - Entire Examination Volume Cannot Be Examined. Relief Request Pending
- 4 B13-DD - Entire Examination Volume Cannot Be Examined Relief Request Pending
- 5 B13-AE - Entire Examination Volume Cannot Be Examined Relief Request Pending
- 6 B13-N02B-KA - Entire Examination Volume Cannot Be Examined Relief Request Pending
- 7 B13-N02C-KA - Entire Examination Volume Cannot Be Examined Relief Request Pending
- 8 B13-N02D-KA - Entire Examination Volume Cannot Be Examined Relief Request Pending
- 9 B13-N02E-KA - Entire Examination Volume Cannot Be Examined Relief Request Pending
- 10 B13-N03A-KA - Entire Examination Volume Cannot Be Examined Relief Request Pending
- 11 B13-N03B-KA - Entire Examination Volume Cannot Be Examined Relief Request Pending
- 12 B13-N06A-KA - Entire Examination Volume Cannot Be Examined Relief Request Pending
- 13 B33G001W34 - Entire Examination Volume Cannot Be Examined Relief Request Pending



14 B33G10-B1-A - Entire Examination Volume Cannot Be Examined Relief  
Request Pending.

15 B33G10-B1-B - Entire Examination Volume Cannot Be Examined Relief  
Request Pending

**SECTION III**

**CODE CATEGORY SUMMARY**

**B13 Rector Pressure Vessel – Volumetric Exams**

**Item B01.012 – Shell Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-A	Longitudinal	B13-BD	RPV-11-1	N/A
B-A	Longitudinal	B13-BH	RPV-11-1	N/A
B-A	Longitudinal	B13-BM	RPV-11-1	N/A
B-A	Longitudinal	B13-BN	RPV-11-1	N/A

**Item B01.022 – Head Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-A	Meridional	B13-DA	RPV-11-1	Relief Pending
B-A	Meridional	B13-DB	RPV-11-1	Relief Pending
B-A	Meridional	B13-DC	RPV-11-1	Relief Pending
B-A	Meridional	B13-DD	RPV-11-1	Relief Pending

**Item B01.030 – Shell to Flange Weld**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-A	Circumferential	B13-AE	RPV-11-1	Relief Pending

**Item B03.090 – Nozzle to Vessel Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-D	Nozzle/Vessel	B13-N02B-KA	RPV-11-1	Relief Pending
B-D	Nozzle/Vessel	B13-N02C-KA	RPV-11-1	Relief Pending
B-D	Nozzle/Vessel	B13-N02D-KA	RPV-11-1	Relief Pending
B-D	Nozzle/Vessel	B13-N02E-KA	RPV-11-1	Relief Pending
B-D	Nozzle/Vessel	B13-N03A-KA	RPV-11-1	Relief Pending
B-D	Nozzle/Vessel	B13-N03B-KA	RPV-11-1	Relief Pending
B-D	Nozzle/Vessel	B13-N06A-KA	RPV-11-1	Relief Pending

**Item B03.100 – Nozzle Inside Radius Section**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-D	Nozzle IR	B13-N02B-IR	RPV-11-1	
B-D	Nozzle IR	B13-N02C-IR	RPV-11-1	
B-D	Nozzle IR	B13-N02D-IR	RPV-11-1	
B-D	Nozzle IR	B13-N02E-IR	RPV-11-1	
B-D	Nozzle IR	B13-N03A-IR	RPV-11-1	
B-D	Nozzle IR	B13-N03B-IR	RPV-11-1	

**B13 Reactor Pressure Vessel – (continued)**

**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.011 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	B13-N03A-KB	RPV-11-1	
B-J	Circumferential	B13-N03B-KB	RPV-11-1	
B-J	Circumferential	B13-N06A-KC	RPV-11-1	
B-J	Circumferential	B13-N09B-KC	RPV-11-1	

**B21 Nuclear Boiler System**

**Pressure Retaining Welds in Piping – Volumetric Exams**

**Item B09.011 – Greater Than 4 In. Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	B21G026W3	FW-11-1	
B-J	Circumferential	B21G026W36	FW-11-1	
B-J	Circumferential	B21G026W4	FW-11-1	
B-J	Circumferential	B21G3-A1-A	MS-11-1	
B-J	Circumferential	B21G001W4	MS-11-3	
B-J	Circumferential	B21G3-B1-A	MS-11-4	
B-J	Circumferential	B21G3-C1-A	MS-11-7	
B-J	Circumferential	B21G3-D1-A	MS-11-10	

**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.011 – Greater Than 4 IN. Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	B21G026W3	FW-11-1	
B-J	Circumferential	B21G026W36	FW-11-1	
B-J	Circumferential	B21G026W4	FW-11-1	
B-J	Circumferential	B21G3-A1-A	MS-11-1	
B-J	Circumferential	B21G001W4	MS-11-3	
B-J	Circumferential	B21G3-B1-A	MS-11-4	
B-J	Circumferential	B21G3-C1-A	MS-11-7	
B-J	Circumferential	B21G3-D1-A	MS-11-10	

**B21 Nuclear Boiler System (continued)**

**Pressure Retaining Bolting Greater than 2 In. in Diameter**

**Item B6.210 – Valves – Bolts and Studs-Volumetric**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-G-1	Studs	1B21F028D	MS-8-1	

**Item B6.220 – Valves – Flange Surface - VT-1**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-G-1	Flange Surface	1B21F028D	MS-8-1	

**Item B6.230 – Valves – Nuts, Bushings, and Washers – VT-1**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-G-1	Nuts,Bush,Wash	1B21F028D	MS-8-1	

**Item B12.050 – Valves – Valve Body Greater Than 4” Inches – VT-3**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-M-2	Body	1B21F028D	MS-8-1	

**Pressure Retaining Welds in Piping – Volumetric Exams**

**Item B09.012 – Greater Than 4 In. Longitudinal Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Longitudinal	B21G001W1-L-U	MS-11-1	
B-J	Longitudinal	B21G3-A1-A-LA-D	MS-11-1	
B-J	Longitudinal	B21G3-A1-A-LB-D	MS-11-1	
B-J	Longitudinal	B21G001W6-L-U	MS-11-4	
B-J	Longitudinal	B21G3-B1-A-L-A-D	MS-11-4	
B-J	Longitudinal	B21G3-B1-A-L-B-D	MS-11-4	
B-J	Longitudinal	B21G001W1-L-U	MS-11-7	
B-J	Longitudinal	B21G3-C1-A-L-A-D	MS-11-7	
B-J	Longitudinal	B21G3-C1-A-L-B-D	MS-11-7	
B-J	Longitudinal	B21G001W6-L-U	MS-11-10	
B-J	Longitudinal	B21G3-D1-A-L-A-D	MS-11-10	
B-J	Longitudinal	B21G3-D1-A-L-B-D	MS-11-10	

**B21 Nuclear Boiler System (continued)**

**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.012 – Greater Than 4 In. Longitudinal Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Longitudinal	B21G001W1-L-U	MS-11-1	
B-J	Longitudinal	B21G3-A1-A-LA-D	MS-11-1	
B-J	Longitudinal	B21G3-A1-A-LB-D	MS-11-1	
B-J	Longitudinal	B21G001W6-L-U	MS-11-4	
B-J	Longitudinal	B21G3-B1-A-L-A-D	MS-11-4	
B-J	Longitudinal	B21G3-B1-A-L-B-D	MS-11-4	
B-J	Longitudinal	B21G001W1-L-U	MS-11-7	
B-J	Longitudinal	B21G3-C1-A-L-A-D	MS-11-7	
B-J	Longitudinal	B21G3-C1-A-L-B-D	MS-11-7	
B-J	Longitudinal	B21G001W6-L-U	MS-11-10	
B-J	Longitudinal	B21G3-D1-A-L-A-D	MS-11-10	
B-J	Longitudinal	B21G3-D1-A-L-B-D	MS-11-10	

**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.021 Less Than 4 In. Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	B21G153W9	MS-11-13	
B-J	Circumferential	B21G153W10	MS-11-13	
B-J	Circumferential	B21G153W13	MS-11-13	
B-J	Circumferential	B21G153W21	MS-11-13	
B-J	Circumferential	B21G153W24	MS-11-13	
B-J	Circumferential	B21G153W25	MS-11-13	

**Pressure Retaining Welds in Piping – Volumetric Exams**

**Item X-AUG – Greater Than 4 In. Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
X-AUG	Circumferential	B21G001W4	MS-11-9	

**Item X-AUG – Greater Than 4 In. Longitudinal Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
X-AUG	Longitudinal	B21G8-A1-B-L-A-U	MS-11-2	
X-AUG	Longitudinal	B21G8-A1-B-L-B-U	MS-11-2	
X-AUG	Longitudinal	B21G9-C1-B-L-A-U	MS-11-8	
X-AUG	Longitudinal	B21G9-C1-B-L-B-U	MS-11-8	

**B13 Rector Pressure Vessel – Volumetric Exams (continued)**

**Item B03.100 – Nozzle Inside Radius Section**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-D	Nozzle IR	B13-N06A-IR	RPV-11-1	
B-D	Nozzle IR	B13-N09B-IR	RPV-11-1	
B-D	Nozzle IR	B13-N016-IR	RPV-11-1	

**Item B05.010 – Nozzle to Safe-End Butt Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-F	Nozzle/Safe-End	B13-N02B-KB	RPV-11-1	
B-F	Nozzle/Safe-End	B13-N02C-KB	RPV-11-1	
B-F	Nozzle/Safe-End	B13-N02D-KB	RPV-11-1	
B-F	Nozzle/Safe-End	B13-N02E-KB	RPV-11-1	
B-F	Nozzle/Safe-End	B13-N06A-KB	RPV-11-1	
B-F	Nozzle/Safe-End	B13-N09B-KB	RPV-11-1	

**B13 Rector Pressure Vessel – Surface Exams**

**Item B05.010 – Nozzle to Safe-End Butt Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-F	Nozzle/Safe-End	B13-N02B-KB	RPV-11-1	
B-F	Nozzle/Safe-End	B13-N02C-KB	RPV-11-1	
B-F	Nozzle/Safe-End	B13-N02D-KB	RPV-11-1	
B-F	Nozzle/Safe-End	B13-N02E-KB	RPV-11-1	
B-F	Nozzle/Safe-End	B13-N06A-KB	RPV-11-1	
B-F	Nozzle/Safe-End	B13-N09B-KB	RPV-11-1	

**Pressure Retaining Welds in Piping – Volumetric Exams**

**Item B09.011 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	B13-N03A-KB	RPV-11-1	
B-J	Circumferential	B13-N03B-KB	RPV-11-1	
B-J	Circumferential	B13-N06A-KC	RPV-11-1	
B-J	Circumferential	B13-N09B-KC	RPV-11-1	

**B21 Nuclear Boiler System (continued)**

**Integral Attachment**

**Item D01.020 – Integrally Welded Attachment VT-3**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
D-A	Attachment	B21G023R10	RV-11-8	
D-A	Attachment	B21G022H02	RV-11-9	
D-A	Attachment	B21G023R11	RV-11-8	

**Item F01.10 – Class 1 Piping Supports VT-3**

F-A	Support	B21G022C01	RV-11-7	
F-A	Support	B21G026H01	FW-11-2	
F-A	Support	B21G023R11	RV-11-8	
F-A	Support	B21G025A01	RV-11-15	
F-A	Support	B21G163H01	SP-11-1	
F-A	Support	B21G163R02	SP-11-1	

**B33 Reactor Recirculation System**

**Pressure Retaining Welds in Piping – Volumetric Exams**

**Item B09.011 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	B33G001W21	RR-11-5	
B-J	Circumferential	B33G001W23	RR-11-5	
B-J	Circumferential	B33G001W13	RR-11-6	
B-J	Circumferential	B33G001W19	RR-11-6	
B-J	Circumferential	B33G001W15	RR-11-7	
B-J	Circumferential	B33G001W17	RR-11-7	
B-J	Circumferential	B33G001W34	RR-11-11	Relief Pending
B-J	Circumferential	B33G10-B1-A	RR-11-11	Relief Pending
B-J	Circumferential	B33G10-B1-B	RR-11-11	Relief Pending
B-J	Circumferential	B33G024-51-11-1	RR-11-17	
B-J	Circumferential	B33G024-51-11-2	RR-11-17	
B-J	Circumferential	B33G024-51-11-3	RR-11-17	
B-J	Circumferential	B33G024-51-11-4	RR-11-17	

**B33 Reactor Recirculation System (continued)**



**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.011 – Circumferential Welds**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
B-J	Circumferential	B33G001W21	RR-11-5	
B-J	Circumferential	B33G001W23	RR-11-5	
B-J	Circumferential	B33G001W13	RR-11-6	
B-J	Circumferential	B33G001W19	RR-11-6	
B-J	Circumferential	B33G001W15	RR-11-7	
B-J	Circumferential	B33G001W17	RR-11-7	
B-J	Circumferential	B33G001W34	RR-11-11	
B-J	Circumferential	B33G10-B1-A	RR-11-11	
B-J	Circumferential	B33G10-B1-B	RR-11-11	
B-J	Circumferential	B33G024-51-11-1	RR-11-17	
B-J	Circumferential	B33G024-51-11-2	RR-11-17	
B-J	Circumferential	B33G024-51-11-3	RR-11-17	
B-J	Circumferential	B33G024-51-11-4	RR-11-17	

**Pressure Retaining Welds in Piping – Volumetric Exams**

**Item B09.012 – Longitudinal Welds**

<b>Category</b>	<b>Item</b>	<b>ID Number</b>	<b>Drawing Number</b>	<b>Relief Request</b>
B-J	Longitudinal	B33G11-A26-B-L-U	RR-11-5	
B-J	Longitudinal	B33G11-A51-B-L-U	RR-11-5	
B-J	Longitudinal	B33G11-102-B-L-U	RR-11-6	
B-J	Longitudinal	B33G11-A77-B-L-U	RR-11-6	
B-J	Longitudinal	B33G11-A128-B-L-U	RR-11-7	
B-J	Longitudinal	B33G11-A153-B-L-U	RR-11-7	
B-J	Longitudinal	B33G9-B1-B-L-U	RR-11-10	
B-J	Longitudinal	B33G10-B1-A-L-D	RR-11-11	
B-J	Longitudinal	B33G10-B1-B-L-D	RR-11-11	

**B33 Reactor Recirculation System (continued)**

**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.012 – Longitudinal Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Longitudinal	B33G11-A26-B-L-U	RR-11-5	
B-J	Longitudinal	B33G11-A51-B-L-U	RR-11-5	
B-J	Longitudinal	B33G11-102-B-L-U	RR-11-6	
B-J	Longitudinal	B33G11-A77-B-L-U	RR-11-6	
B-J	Longitudinal	B33G11-A128-B-L-U	RR-11-7	
B-J	Longitudinal	B33G11-A153-B-L-U	RR-11-7	
B-J	Longitudinal	B33G9-B1-B-L-U	RR-11-10	
B-J	Longitudinal	B33G10-B1-A-L-D	RR-11-11	
B-J	Longitudinal	B33G10-B1-B-L-D	RR-11-11	

**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.021 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	B33G024W67	RR-11-17	

**Pressure Retaining Welds in Piping – Volumetric Exam**

**Item X-AUG – Greater Than 4 In. Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
X-AUG	Circumferential	B33G9-B1-B	RR-11-10	

**Pressure Retaining Welds in Piping – Surface Exam**

**Item X-AUG – Greater Than 4 In. Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
X-AUG	Circumferential	B33G9-B1-B	RR-11-10	

**Pressure Retaining Bolting – VT-1**

**Item B07.050 – Piping bolts, Studs, Nuts**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-G-2	Bolts/Nuts	BLT-UP STRM	RR-11-9	
B-G-2	Bolts/Nuts	BLT-DOWN STRM	RR-11-9	

**B33 Reactor Recirculation System (continued)**

**Supports**

**Item F01.10 – Class 1 Piping Supports VT-3**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
F-A	Support	B33G002H305A	RR-11-1	
F-A	Support	B33G002H306A	RR-11-1	
F-A	Support	B33G024R04	RR-11-10	

**C41 Standby Liquid Control System**

**Supports – VT-3**

**Item F01.010 – Support**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
F-A	Support	C41G117R01	LC-11-9	

**E12 Residual Heat Removal System**

**Pressure Retaining Welds in Piping – Volumetric Exams**

**Item B09.011 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	E12G012W40	RH-11-1	
B-J	Circumferential	E12G012W41	RH-11-1	
B-J	Circumferential	E12G015W53	RH-11-10	

**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.011 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	E12G012W40	RH-11-1	
B-J	Circumferential	E12G012W41	RH-11-1	
B-J	Circumferential	E12G015W53	RH-11-10	

**Integral Attachment for Piping, Pumps, and Valves**

**Item B10.010 – Integrally Welded Attachments – Surface Exam**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-K-1	Attachment	E12G012H19	RH-11-1	

**B33 Reactor Recirculation System (continued)**

**Supports**

**Item F01.10 – Class 1 Piping Supports VT-3**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
F-A	Support	B33G002H305A	RR-11-1	
F-A	Support	B33G002H306A	RR-11-1	
F-A	Support	B33G024R04	RR-11-10	

**C41 Standby Liquid Control System**

**Supports – VT-3**

**Item F01.010 – Support**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
F-A	Support	C41G117R01	LC-11-9	

**E12 Residual Heat Removal System**

**Pressure Retaining Welds in Piping – Volumetric Exams**

**Item B09.011 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	E12G012W40	RH-11-1	
B-J	Circumferential	E12G012W41	RH-11-1	
B-J	Circumferential	E12G015W53	RH-11-10	

**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.011 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	E12G012W40	RH-11-1	
B-J	Circumferential	E12G012W41	RH-11-1	
B-J	Circumferential	E12G015W53	RH-11-10	

**Integral Attachment for Piping, Pumps, and Valves**

**Item B10.010 – Integrally Welded Attachments – Surface Exam**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-K-1	Attachment	E12G012H19	RH-11-1	

**E12 Residual Heat Removal System (continued)**

**Valves Bodies**

**Item B12.050 – Internal Surfaces – VT-3**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-M-2	Valve Bodies	E12F009	RH-11-1	

**E21 Low Pressure Core Spray System**

**Pressure Retaining Welds in Piping – Volumetric Exams**

**Item B09.011 – Circumferential Weld**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	E21G002W13	LP-11-02	

**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.011 – Circumferential Weld**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	E21G002W13	LP-11-02	

**E22 High Pressure Core Spray System**

**Pressure Retaining Welds in Piping – Volumetric Exams**

**Item B09.011 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	E22G003W10	HP-11-1	
B-J	Circumferential	E22G003W8	HP-11-1	
B-J	Circumferential	E22G003W9	HP-11-1	

**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.011 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	E22G003W10	HP-11	
B-J	Circumferential	E22G003W8	HP-11-1	
B-J	Circumferential	E22G003W9	HP-11-1	

**E51 Reactor Core Isolation Cooling System**

**Pressure Retaining Welds in Piping – Volumetric Exams**

**Item B07.070 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	E51G001W505	RRI-11-6	
B-J	Circumferential	E51G001W506	RRI-11-6	
B-J	Circumferential	E51G001W502	RRI-11-7	

**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.011 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	E51G001W505	RRI-11-6	
B-J	Circumferential	E51G001W506	RRI-11-6	
B-J	Circumferential	E51G001W502	RRI-11-7	

**Supports**

**Item F01.010 – Piping Support – VT-3**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
F-A	Support	E51G001R16	RRI-11-05	

**G33 Reactor Water Cleanup System**

**Pressure Retaining Welds in Piping – Volumetric Exams**

**Item B09.011 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	G33G011-3-11-3	CU-11-10	
B-J	Circumferential	G33G011-3-11-4	CU-11-10	

**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.011 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	G33G011-3-11-3	CU-11-10	
B-J	Circumferential	G33G011-3-11-4	CU-11-10	

**G33 Reactor Water Cleanup System – (continued)**

**Pressure Retaining Welds in Piping – Surface Exams**

**Item B09.021 – Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-J	Circumferential	G33G002W151	CU-11-7	

**Supports**

**Item F01.010 – Piping Support – VT-3**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
F-A	Support	G33G002H09	CU-11-4	
F-A	Support	G33G011H01	CU-11-9	

**Pressure Retaining Welds in Piping – Volumetric Exam**

**Item X-AUG – Greater Than 4 In. Circumferential Welds**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
X-AUG	Circumferential	G33G011-3-11-1	CU-11-10	
X-AUG	Circumferential	G33G011-3-11-2	CU-11-10	
X-AUG	Circumferential	G33G011W4	CU-11-10	
X-AUG	Circumferential	G33G012-26-11-1	CU-11-13	
X-AUG	Circumferential	G33G012-26-11-2	CU-11-13	
X-AUG	Circumferential	G33G012-26-11-3	CU-11-13	
X-AUG	Circumferential	G33G012W56	CU-11-13	

**P41 Standby Service Water System**

**Supports**

**Item F01.030 – Piping Supports – VT-3**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
F-A	Support	P41G011C11	WS-YD-3	

## Abstract Of Examination - Class I Valve

### A Code Requirements

The internal surfaces of ASME Class I valve internals larger than 4 inches shall be visually inspected once each ten interval in accordance with ASME Section XI, Table IWB-2500, Examination Category B-M-2, Item B12 50

### B Inservice Inspection

Applicable inservice inspections are to be performed in accordance with the requirements of ASME Section XI, 1992 Edition, with portions of the 1993 Addenda Note 3 of Table IWB-2500-1 states, "Examinations are limited to at least one valve within each group of valves that are of the same size, constructional design (such as globe, gate, or check valve) and manufacturing method, and that perform similar functions in the system (such as containment isolation and system overpressure protection)

Grand Gulf grouped all Class I valves in accordance with the above criteria from Note 3 Inspection of any one- (1) valve in any particular group will satisfy inspection requirements for that particular group ISI credit will be taken for only one valve per group Should disassembly of a valve be required earlier than the third period, an inspection may be performed at that time to fulfill code requirements

The examination is required for the valve internal surfaces only and does not include the internal components of the valve

### C Groupings

There are sixteen groups of valves at Grand Gulf Nuclear Station The following is the status of each group

- Group #1 - Contains two 24" piston check valves To date, none of the group has been inspected
- Group #2 - Contains two 24" gate valves To date, none of the group has been inspected
- Group #3 - Contains four 14" gate valves To date, none of the group has been inspected.
- Group #4 - Contains two 24" swing check To date, none of the group has been inspected
- Group #5 - Contains four 14" swing check valves To date, none of the group has been inspected
- Group #6 - Contains eight 28" globe valves To date, one of the valves has been inspected has been VT-3 examined and was found acceptable The requirement of Section XI for Group #6 has been satisfied
- Group #7 - Contains two 6" globe valves To date, none of the group has been inspected



- Group #8 - Contains twenty 8" main steam safety relief valves To date, none of the group has been inspected
- Group #9 - Contains four 24" gate valves To date, none of the group has been inspected
- Group #10 - Contains two 24" ball valves To date, one of the valves has been inspected, to the extent practicable, and was found acceptable The requirement of Section XI for Group #10 has been satisfied
- Group #11 - Contains two 20" gate valves To date, one of the valves has been inspected, to the extent practicable, and was found acceptable The requirement of Section XI for Group #11 has been satisfied
- Group #12 - Contains three 14" gate valves To date, none of the group has been inspected
- Group #13 - Contains two 12" gate valves To date, none of the group has been inspected
- Group #14 - Contains two 10" gate valves To date, none of the group has been inspected
- Group #15 - Contains seven 6" gate valves To date, none of the group has been inspected
- Group #16 - Contains five unique valves Examination of each unique valve is required a maximum of one time during the ten year interval To date, none of the group has been inspected

**Abstract Of Examination - Class I Valve Summary**

Total number of credited visual exams performed this time frame	3
Total number of visual exams required for the Ten Year Interval	16
Total number of visual exams performed for the Ten Year Interval	6
Percentage of Ten Year Interval requirements completed	37.5

**Abstract Of System Hydrostatic Test Examinations Second Interval**

The following is an overall summary of Inservice Inspection (ISI) for System Hydrostatic Testing conducted at Grand Gulf Nuclear Station. The summary is itemized by the applicable Code Categories described in Table IWB-2500-1, IWC-2500-1 and IWD-2500-1 of ASME Section XI, 1992 Edition, with portions of the 1993 Addenda. The term "Pressure Test Zone" refers to the actual system pressure test that actually placed the applicable portion of the system in the condition required for the VT-2.

## CODE CATEGORY SUMMARY

### Abstract of System Hydrostatic Test Examinations Second Interval

The following is an overall summary of Inservice Inspection (ISI) for System Hydrostatic Testing conducted at Grand Gulf Nuclear Station. The summary is itemized by the applicable Code Categories described in Table IWB-2500-1, IWC-2500-1 and IWD-2500-1 of ASME Section XI, 1992 Edition, with portions of 1993 Addenda. The term "Pressure Test Zone" refers to the actual system pressure test that actually placed the applicable portion of the system in the condition required for the VT-2.

### Code Category B-P (Pressure Retaining Components)

Item(s) B15.10 – Reactor Vessel, B15.50 – Piping, B15.60 – Pumps, B15.70 - Valves

**System Number**

Various

**Pressure Test Zone Number**

03-1-01-6

**TABLE 1****ABSTRACT OF EXAMINATIONS AND TESTS**

Examination Category	Total Examinations Required For The Interval	Total Examinations Credited For This Period	Total Examinations Credited (%) For The Period	Total Examinations Credited (%) To Date For The Interval	Remarks
B-A	32	9	69 2%	28 1%	N/A
B-D	70	20 <sup>1</sup>	90%	28 6%	N/A
B-F	28	16	200%	57 1%	N/A
B-G-1	45	4	10 3%	8 9%	N/A
B-G-2	54	3	7%	6%	N/A
B-J	275	124	140%	45%	N/A
B-K-1	26	1	50%	7 7%	N/A
B-L-2	2	0			N/A
B-M-2	16	3	N/A <sup>2</sup>	18 8%	N/A
B-N-1	3	2	100%	66 6%	N/A
B-N-2	79	0			N/A
C-A	2				N/A
C-B	4				N/A
C-C	3				N/A
C-D	1				N/A
C-F-2	72				N/A
C-G	46				N/A
D-A	18	27	100%	27 9%	N/A
F-A	147	14	41 2%		N/A

<sup>1</sup> For Section XI credit, the total examinations required for the interval include six N4 inside radius exams. Section XI credit is being taken for two exams, when performed, each period.

<sup>2</sup> These inspections are not specified in any particular period and are performed, and counted toward the total, when made available. There are sixteen different groups of class 1 valves (see Abstract of Examination – Class 1 Valves) that require inspection each interval.

**TABLE 1**

**ABSTRACT OF EXAMINATIONS AND TESTS**

<b>Examination Category</b>	<b>Total Examinations Required For The Interval</b>	<b>Total Examinations Credited For This Period</b>	<b>Total Examinations Credited (%) For The Period</b>	<b>Total Examinations Credited (%) To Date For The Interval</b>	<b>Remarks</b>
B-P Pressure Test	14	1	100%	7.1%	N/A
C-H Pressure Test	240	0	0	0	N/A
DB Pressure Test	69	0	0	0	N/A
TOTAL	323	1	< 1%	< 1%	N/A

**TABLE 2**

**ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED  
EVALUATION FOR CONTINUED SERVICE**

<b>Examination Category</b>	<b>Item Number</b>	<b>Item Description</b>	<b>Flaw Characterization (IWA-3300)</b>	<b>Flaw or Relevant Condition Found During Scheduled Section XI Examination (Yes or No)</b>
N/A	N/A	N/A	N/A	N/A

**TABLE 3**

**ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES  
REQUIRED FOR CONTINUED SERVICE**

<b>Code Class</b>	<b>Repair, Replacement, or Corrective Measure</b>	<b>Item Description</b>	<b>Description of Work</b>	<b>Flaw or Relevant Condition Found During Scheduled Section XI Examination (Yes or No)</b>	<b>Date Completed</b>	<b>Repair/Replacement Plan Number</b>
-------------------	---	-------------------------	----------------------------	---	-----------------------	---------------------------------------

N/A	N/A	N/A	N/A	N/A	N/A	N/A
-----	-----	-----	-----	-----	-----	-----

REPORT NUMBER OAR-1-00002

INSERVICE INSPECTION SUMMARY REPORT

FOR

GRAND GULF NUCLEAR STATION UNIT 1

BALD HILL ROAD

PORT GIBSON, MS. 39150

COMMERCIAL OPERATION DATE: JULY 1, 1985

OWNER/OPERATOR

ENTERGY OPERATIONS, INC.

ECHELON ONE

P.O. BOX 31995

JACKSON, MS. 39286-1995

## INTRODUCTION

The Inservice Inspections performed between December 1, 1996 and May 21, 1998 were conducted, unless otherwise noted, in accordance with the ASME Boiler and Pressure Vessel Code Section XI 1992 Edition, with portions of the 1993 Addenda. In addition, the GGNS Unit 1 Inservice Inspection Plan is in compliance with the following Regulatory Guides, IE Bulletins, NUREGS, Standard Review Plans, and Code Cases

Regulatory Guide 1 147	Inservice Inspection Code Case Acceptability ASME Section XI, Division 1
Regulatory Guide 1 150	Ultrasonic Testing of Reactor Vessel Welds during Preservice and Inservice Inspection
NUREG 0619	BWR Feedwater Nozzle and Control Rod Drive Return Nozzle Cracking
SRP 3 6 2	Determination of Break Location and Dynamic Effects Associated with Postulated Rupture of piping (No Break Zone Exams)
Generic Letter 88-01	NRC Position on IGSCC in BWR Austenitic Stainless Steel Piping
SRP 3 6 2	Determination of Break Location and Dynamic Effect Associated with Postulated Rupture of Piping
Code Case N-307-1	Revised Ultrasonic Examination Volume for Class 1 Bolting Table IWB-2500, Examination Category B-G-1, when Examinations are Conducted From the Centered-Drilled Holes, Section XI, Division 1
Code Case N-416-1	Alternate Pressure Test Requirements for Welded Repairs or Installation of Replacement Items by Welding Class 1,2, and 3 - Section XI, Division 1
Code Case N-335-1	Rules for Ultrasonic Examination of Similar and Dissimilar Metal Piping Welds (Inc W85)
Code Case N-460-1	Alternative Examination Coverage for Class 1 and 2 Welds Section XI, Division 1
Code Case N-461	Alternative Rules for Piping Calibration Block Thickness Section XI, Division 1



## **INTRODUCTION (continued)**

Code Case N-496	Helical-Coil Threaded Inserts Section XI, Division 1
Code Case N-498-1	Alternative Rules 10-Year Hydrostatic Pressure Test for Class 1 and 2 Systems
Code Case N-508-1	Rotation of Service Snubbers and Relief Valves for the Purpose of Testing
Code Case N-532	Alternative Requirements to Repair and Replacement Documentation Requirements and Inservice Summary Report Preparation and Submission as Required by IWA-4000 and IWA-6000, Section XI, Division 1

During the course of the examinations, Entergy Operations, Inc controlled the examination activities through our established programs Actual examinations were either performed by Entergy Operations Quality Programs Inspectors working to GGNS procedures or contractor inspectors working to GGNS procedures or procedures approved for use by Entergy Operations Arkwright Mutual Insurance Company served as the authorized inspection agency as defined in IWA-2130 By this arrangement, Arkwright Mutual Insurance Company reviewed the applicable procedures, examined personnel certification records, witnessed selected inspections, and checked for general code compliance as specified by IWA-2120

This report is being presented as one volume divided into several sections as necessitated by the degree of detail required in ASME Section XI Section XI requires that an Owner's Activity Report Form OAR-1 shall be prepared and certified upon the completion of each refueling outage and that each Form OAR-1 prepared during an inspection period shall be submitted to the NRC following the end of that inspection period Each OAR-1 shall contain the following an abstract of applicable examinations and tests, Table 1, a listing of item(s) with flaws or relevant conditions that require evaluation to determine acceptability for continued service (whether or not the flaw or relevant condition was discovered during a scheduled examination or test), Table 2, and an abstract of repairs, replacements, and corrective measures performed which were required due to an item containing a flaw or relevant condition that exceeded Section XI acceptance criteria, Table 3 For that purpose, Section I contains the owner's Activity Report, Form OAR-1, Table 1, Table 2, and Table 3 Section II provides information pertaining to the resolution of open items contained in Inservice Inspection Summary Section III contains a code category summary Section IV contains drawings/isometrics applicable to the components examined

## **TABLE OF CONTENTS**

SECTION	I	OAR-1 - OWNERS ACTIVITY REPORT
SECTION	II	OPEN ITEMS RESOLUTION
SECTION	III	CODE CATEGORY SUMMARY
SECTION	IV	DRAWINGS/ISOMETRICS

**SECTION I**

**OWNER'S ACTIVITY REPORT**

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number OAR-1-00002

Owner Entergy Operations, Inc, Echelon One, P O Box 31995, Jackson Ms 39286-1995  
Name and Address of Owner

Plant Grand Gulf Nuclear Station, Bald Hill Road, Port Gibson, Ms 39150  
Name and Address of Owner

Unit No 1 Commercial Service Date July 1, 1985 Refueling Outage No 9  
(if applicable)

Current Inspection Interval 2nd  
1st, 2nd, 3rd, 4th, other

Current Inspection Period 1st  
1st, 2nd, 3rd

Edition and Addenda of Section XI applicable to the inspection plan 1992 Edition, with portions of the 1993 Addenda

Date and revision of inspection plan November 6, 1997, Revision 11

Edition and Addenda of Section XI applicable to repairs and replacements different than the inspection plan N/A

OWNER'S CERTIFICATE OF CONFORMANCE

I certify that the statements made in this Owner's Activity Report are correct, and that the examinations, tests, repairs, replacements, evaluations, and corrective measures represented by this report conform to the requirements of Section XI

Certificate of Authorization No N/A Expiration Date N/A

Signed Edward Burton ISI Coordinator Date 10-26-1998  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mississippi and employed by Arkwright Mutual Insurance Company of Waltham, Ma have inspected the items described in this Owner's Activity Report during the period November 30, 1996 to May 21, 1998 and state that to the best of my knowledge and belief, the Owner has performed all activities <sup>6-2-97</sup> represented by this report in accordance with the requirements of Section XI

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, repairs, replacements, evaluations, and corrective measures described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Donald R. Bivins Commissions NB 5560 I-B-S-N-IS, MS 3978  
Inspector's Signature National Board, State, Province and Endorsements

Date 10-26-98

**TABLE 1****ABSTRACT OF EXAMINATIONS AND TESTS**

Examination Category	Total Examinations Required For The Interval	Total Examinations Credited For This Period	Total Examinations Credited (%) For The Period	Total Examinations Credited (%) To Date For The Interval	Remarks
B-A	32				
B-D	76*	4 <sup>1</sup>	17%	5.3%	
B-F	56	4	25%	7.1%	
B-G-1	48				
B-G-2	54				
B-J	480				
B-K-1	26				
B-L-2	2				
B-M-2	16	2	N/A <sup>2</sup>	12.5%	
B-N-1	3				
B-N-2	79				
C-A	2				
C-B	8				
C-C	24				
C-D	1				
C-F-2	49				
C-G	35				
D-A	86	24	100%	27.9%	
F-A	52				

<sup>1</sup> For Section XI credit the total examinations required for the interval include six N4 inside radius exams. Section XI credit is being taken for two exams, when performed, each period.

<sup>2</sup> These inspections are not specified in any particular period and are performed, and counted toward the total, when made available.

**TABLE 1**

**ABSTRACT OF EXAMINATIONS AND TESTS**

<b>Examination Category</b>	<b>Total Examinations Required For The Interval</b>	<b>Total Examinations Credited For This Period</b>	<b>Total Examinations Credited (%) For The Period</b>	<b>Total Examinations Credited (%) To Date For The Interval</b>	<b>Remarks</b>
B-P Pressure Test	7	1	33.3%	14.3%	N/A
C-H Pressure Test	174	0	0	0	N/A
DB Pressure Test	75	0	0	0	N/A
<b>TOTAL</b>	256	1	1.2%	< 1%	N/A

**TABLE 2**

**ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED  
EVALUATION FOR CONTINUED SERVICE**

<b>Examination Category</b>	<b>Item Number</b>	<b>Item Description</b>	<b>Flaw Characterization (IWA-3300)</b>	<b>Flaw or Relevant Condition Found During Scheduled Section XI Examination (Yes or No)</b>
B-G-2	B-7-10	Control Rod Drive (CRD) Flange-to-Flange Bolting	Linear Indications Detected by Penetrant Exam (PT) After Unacceptable VT-1 <sup>1</sup>	Yes

---

<sup>1</sup> MNCR 92/00173 was written to document the unacceptable VT-1. Eighteen of 176 cap screws examined had visual indications. Fifteen of the cap screws were subjected to a Penetrant Test (PT). The test indicated small linear indications. A detailed metallographic examination of five of the worst case CRD cap screws was performed. Engineering Report 98-003-01 found the degradation of the cap screws acceptable and, if left as is, was not expected to result in a failure of the cap screws in the future.

**TABLE 3**

**ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES  
REQUIRED FOR CONTINUED SERVICE**

<b>Code Class</b>	<b>Repair, Replacement, or Corrective Measure</b>	<b>Item Description</b>	<b>Description of Work</b>	<b>Flaw or Relevant Condition Found During Scheduled Section XI Examination (Yes or No)</b>	<b>Date Completed</b>	<b>Repair/Replacement Plan Number</b>
B-G-2	Replacement <sup>2</sup> / Corrective Measure <sup>3</sup>	Control Rod Drive (CRD) Flange-to-Flange Bolting	Replace CRD Cap Screws	Yes	11-30-96	Note 1

Note 1 Repair/Replacement Plan Numbers

NIS-2-00289 (RFO5 NIS-2 form submitted to the NRC following RFO5 and included in Inservice Summary Report NIS-1-00009 for GGNS)

NIS-2A-WO16483, WO164824 WO164822, WO164823, WO164816, WO164813, WO171978, WO16481, WO163717, WO164820, WO164847, WO164842, WO169567, WO157794, WO169471, WO169566, WO169568, WO164832, WO169477, WO164825, WO164846, WO169467, WO164815, WO164821, WO163719 WO164817 (RFO8 Repair/Replacement Plan Numbers NIS-2A-Number)

<sup>2</sup>During RFO5, the old style capscrews were use to replace 144 of the removed capscrews while 32 of the new redesigned cap screws were used to replace the remaining removed cap screws. During the last outage (RFO8), all CRD cap screws removed were visually inspected and all removed cap screws were replaced with the new redesigned cap screws. Prior to the plant returning to operation, the 5 cap screws showing the worst damage was analyzed. The results showed that the cracks were due to the same phenomenon as identified in RFO5 and the indications and depth were as expected.

<sup>3</sup> Successive examinations will continue for the next three periods in accordance with the Inservice Inspection Plan. If cap screws with indications that exceed the established threshold limit of 107 inches flaw depth are detected, a condition report will be initiated to evaluate the condition and take appropriate action prior to returning to operation.



**SECTION II**

**OPEN ITEMS RESOLUTION**

### **Open Items Noted**

This section lists items identified during RFO9 the reporting period for OAR-1-00002 and not resolved before issuing OAR-1-00002

1. N04A-KA - Entire Examination Volume Cannot Be Examined Relief Request Pending.
2. N04B-KA - Entire Examination Volume Cannot Be Examined. Relief Request Pending.

**SECTION III**

**CODE CATEGORY SUMMARY**

## CODE CATEGORY SUMMARY

### **Abstract Of Examinations - Reactor Pressure Vessel - (RPV)**

The following is a summary of the results of Inservice Inspection (ISI) conducted on the Grand Gulf Nuclear Station, Unit 1, Reactor Pressure Vessel (RPV). The summary is itemized by the applicable code categories described in Table IWB-2500-1 of the ASME Section XI, 1992 Edition, with portions the 1993 Addenda. Grand Gulf Nuclear Station is also committed to meeting the requirements of Regulatory Guide 1.150, Revision 1 for inservice inspection, although Regulatory Guide 1.150 was not applicable during the GGNS pre-service. When the term "visual exam" is used, it will designate a VT-1, VT-2, or VT-3 is performed.

### **B13 Reactor Pressure Vessel - Volumetric Exam**

#### **Item B03.090 - Nozzle-to-Vessel Weld**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-D	Weld	N04A-KA	RPV-11-1	Pending See Section II
B-D	Weld	N04B-KA	RPV-11-1	Pending - See Section II

#### **Item B03.100 - Nozzle Inside Radius Section \***

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-D	Weld	N04A-IR**	RPV-11-1	N/A
B-D	Weld	N04B-IR**	RPV-11-1	N/A
B-D	Weld	N04C-IR	RPV-11-1	N/A
B-D	Weld	N04D-IR	RPV-11-1	N/A
B-D	Weld	N04E-IR	RPV-11-1	N/A
B-D	Weld	N04F-IR	RPV-11-1	N/A

\* Augmented examination required by NUREG 0619.

\*\* Section XI credit taken for welds N04A-IR and N04B-IR.

**CODE CATEGORY SUMMARY**

**B13 Reactor Pressure Vessel - Volumetric Exam (continued)**

**Item B05.010 - Nozzle-to-Safe End Butt Welds**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
B-F	Weld	N04A-KB	RPV-11-1	N/A
B-F	Weld	N04B-KB	RPV-11-1	N/A

**B13 Reactor Pressure Vessel - Surface Exam**

**Item B05.010 Nozzle-to-Safe End Butt Welds**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
B-F	Weld	N04A-KB	RPV-11-1	N/A
B-F	Weld	N04B-KB	RPV-11-1	N/A

## CODE CATEGORY SUMMARY

### **B13 Reactor Pressure Vessel - Visual Exam**

#### **Item B13.10 Vessel Interior**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-N-1	B13	RPV	RPV-11-01	N/A
VT-3	D001	Accessible Area		

**Item N/A; Exams performed due to Vessel Internals Management Program (M489.1), SILs, MNCRs, NUREG, etc., not required by Section XI.**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Drawing Number</u>	<u>Relief Request</u>
N/A	N/A	See	RPV-0-1	N/A
VT-1		Below	RPV-11-1	
E-VT-1			RPV-11-2	
CS-VT-1			RPV-11-3	
VT-3				

Steam Dryer Drain Channel Attachment Welds 1-8 (SIL# 374)  
Dryer Guide Rod Brackets @ 0 And 180 Degrees  
LPCI Assembly @ 39 and 141 Degrees (Including Area Required By MNCR# 0212-93)  
Guide Tube Alignment Lug Weld (CRGT-1)  
Fuel Support Orifice Tack Weld (OFS / OF-1)  
Jet Pump Riser To Transition Piece Weld (RS-3) Jet Pumps 1-6  
Upper/Lower guide Rod Brackets @ 0 And 180 Degrees  
Shsam Assembly And Tack Weld #14 (MNCR# 0220-93)  
Shsam Assembly to Separator Flange Attachment Weld #14 (MNCR# 0220-93)  
Shroud Head To Shroud Mating Surface Between #12 And # 16 Shsam  
Upper and Lower Core Spray Downcomer Piping, Header Piping, Nozzle to  
Pipe Adapters, Spray Nozzle Tack Welds, Support Brackets/Bolts  
Dry Tubes @ Location 18-47, 26-27, 26-39, 42-43, 34-39, 34-19, 42-15, 50-15, 26-15,  
26-19, 18-27

## CODE CATEGORY SUMMARY

### **Abstract Of Examination (Piping Welds, Components and Supports)**

The following is an overall summary of the results of Inservice Inspection (ISI) conducted on Grand Gulf Nuclear Station, Unit 1 piping pressure boundary welds, components and supports. The summary is itemized by the applicable Code Categories described in Table IWC-2500-1 and /or IWD-2500-1 of ASME Section XI, 1992 Edition, with portions of the 1993 Addenda

When the term "visual exam" is used, it will designate a VT-1, VT-2, or VT-3 is performed

#### **B21 Nuclear Boiler System - Visual Exams**

##### **Item B07.050**

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Class</u>	<u>Drawing Number</u>	<u>Relief Request</u>
B-G-2 VT-1	BLT	1B21FLG CONN W1	1	MS-11-14	N/A

#### **B21 Nuclear Boiler System - Visual Exams**

##### **Item D01.020**

D-A VT-3	Attach Weld	1B21G022C01	3	RV-11-07	N/A
D -A VT-3	Attach Weld	1B21G022R12	3	RV-11-07	N/A
D-A VT-3	Attach Weld	1B21G022R13	3	RV-11-07	N/A
D-A VT-3	Attach Weld	1B21G022R14	3	RV-11-07	N/A
D-A VT-3	Attach Weld	1B21G022R15	3	RV-11-07	N/A
D-A VT-3	Attach Weld	1B21G022R16	3	RV-11-07	N/A

## CODE CATEGORY SUMMARY

### B21 Nuclear Boiler System - Visual Exams (continued)

#### Item D01.020 (continued)

<u>Category</u>	<u>Item</u>	<u>ID Number</u>	<u>Class</u>	<u>Drawing Number</u>	<u>Relief Request</u>
D-A VT-3	Attach Weld	1B21G022R18	3	RV-11-07	N/A
D-A VT-3	Attach. Weld	1B21G023R01	3	RV-11-10	N/A
D-A VT-3	Attach Weld	1B21G024R01	3	RV-11-18	N/A
D-A VT-3	Attach Weld	1B21G024R02	3	RV-11-18	N/A
D-A VT-3	Attach Weld	1B21G024R09	3	RV-11-02	N/A
D-A VT-3	Attach Weld	1B21G024R16	3	RV-11-02	N/A
D-A VT-3	Attach Weld	1B21G025A01	3	RV-11-15	N/A
D-A VT-3	Attach Weld	1B21G025H01	3	RV-11-15	N/A
D-A VT-3	Attach Weld	1B21G025R01	3	RV-11-15	N/A
D-A VT-3	Attach Weld	1B21G025R02	3	RV-11-15	N/A
D-A VT-3	Attach Weld	1B21G025R03	3	RV-11-15	N/A
D-A VT-3	Attach Weld	1B21G025R07	3	RV-11-15	N/A



**CODE CATEGORY SUMMARY**

**B21 Nuclear Boiler System - Visual Exams (continued)**

**Item D01.020 (continued)**

<b><u>Category</u></b>	<b><u>Item</u></b>	<b><u>ID Number</u></b>	<b><u>Class</u></b>	<b><u>Drawing Number</u></b>	<b><u>Relief Request</u></b>
D-A VT-3	Attach Weld	1B21G032A01	3	RV-11-13	N/A
D-A VT-3	Attach Weld	1B21G032H01	3	RV-11-13	N/A
D-A VT-3	Attach Weld	1B21G032R01	3	RV-11-13	N/A
D-A VT-3	Attach Weld	1B21G032R03	3	RV-11-13	N/A
D-A VT-3	Attach Weld	1B21G032R04	3	RV-11-13	N/A
D-A VT-3	Attach Weld	1B21G032R06	3	RV-11-13	N/A

## CODE CATEGORY SUMMARY

### **Abstract Of Examination - Class I Valve**

#### **A. Code Requirements**

The internal surfaces of ASME Class I valve internals larger than 4 inches shall be visually inspected once each ten interval in accordance with ASME Section XI, Table IWB-2500, Examination Category B-M-2, Item B12.50

#### **B. Inservice Inspection**

Applicable inservice inspections are to be performed in accordance with the requirements of ASME Section XI, 1992 Edition, with portions of the 1993 Addenda Note 3 of Table IWB-2500-1 states, "Examinations are limited to at least one valve within each group of valves that are of the same size, constructional design (such as globe, gate, or check valve) and manufacturing method, and that perform similar functions in the system (such as containment isolation and system overpressure protection)

Grand Gulf grouped all Class I valves in accordance with the above criteria from Note 3. Inspection of any one (1) valve in any particular group will satisfy inspection requirements for that particular group ISI credit will be taken for only one valve per group. Should disassembly of a valve be required earlier than the third period, an inspection may be performed at that time to fulfill code requirements

The examination is required for the valve internal surfaces only and doesn't include the internal components of the valve

#### **C. Groupings**

There are sixteen groups of valves at Grand Gulf Nuclear Station The following is the status of each group

- Group #1 - Contains two 24" piston check valves To date, none of the group have been inspected
- Group #2 - Contains two 24" gate valves To date, none of the group have been inspected
- Group #3 - Contains four 14" gate valves To date, none of the group have been inspected
- Group #4 - Contains two 24" swing check To date, none of the group have been inspected
- Group #5 - Contains four 14" swing check valves To date, none of the group have been inspected

## CODE CATEGORY SUMMARY

### Groupings (continued)

- Group #6 - Contains eight 28" globe valves To date, one of the valves has been inspected has been VT-3 examined and was found acceptable The requirement of Section XI for Group #6 has been satisfied
- Group #7 - Contains two 6" globe valves To date, none of the group have been inspected
- Group #8 - Contains twenty 8" mainsteam safety relief valves To date, none of the group have been inspected
- Group #9 - Contains four 24" gate valves To date, none of the group have been inspected
- Group #10 - Contains two 24" ball valves To date, one of the valves has been inspected, to the extent practicable, and was found acceptable The requirement of Section XI for Group #10 has been satisfied
- Group #11 - Contains two 20" gate valves To date, none of the group has been inspected
- Group #12 - Contains three 14" gate valves To date, none of the group has been inspected
- Group #13 - Contains two 12" gate valves To date, none of the group has been inspected
- Group #14 - Contains two 10" gate valves To date, none of the group has been inspected
- Group #15 - Contains seven 6" gate valves To date, none of the group has been inspected
- Group #16 - Contains five unique valves Examination of each unique valve is required a maximum of one time during the ten year interval To date, none of the group has been inspected

### Abstract Of Examination - Class I Valve Summary

Total number of credited visual exams performed this time frame	2
Total number of visual exams required for the Ten Year Interval	16
Total number of visual exams performed for the Ten Year Interval	2
Percentage of Ten Year Interval requirements completed	12.5%

## CODE CATEGORY SUMMARY

### Abstract Of System Hydrostatic Test Examinations Second Interval

The following is an overall summary of Inservice Inspection (ISI) for System Hydrostatic Testing conducted at Grand Gulf Nuclear Station. The summary is itemized by the applicable Code Categories described in Table IWB-2500-1, IWC-2500-1 and IWD-2500-1 of ASME Section XI, 1992 Edition, with portions of the 1993 Addenda. In lieu of performing the hydrostatic test, the pressure tests described were performed in accordance with Code Case N-498-1.

The term "Pressure Test Zone" refers to the actual system pressure test that actually placed the applicable portion of the system in the condition required for the VT-2.

### Code Category B-P (Pressure Retaining Components)

#### Item(s) B15.10 - Reactor Vessel, B15.50 - Piping, B15.60 - Pumps, B15.70 - Valves

<b>System Number</b>	<b>Pressure Test Zone Number</b>
Various	03-1-01-6