REPORT NUMBER NIS-1-00011

FOR
GRAND GULF NUCLEAR STATION UNIT 1
BALD HILL ROAD
PORT GIBSON, MS. 39150

COMMERCIAL OPERATING DATE: JULY 1, 1985

OWNER/OPERATOR

ENTERGY OPERATIONS, INC.

ECHELON ONE

P.O. BOX 31995

JACKSON, MS. 39286-1995

PREPARED BY

co Buton

RESP. ENG. (ISI)

REVIEWED BY

TESTING/INSPECTION PROGRAMS SUPERVISOR APPROVED BY

ENG. SUPPORT SUPT.

DOCUMENT COMPLETION DATE

SEPTEMBER 8, 1995



INTRODUCTION

The Inservice Inspections performed between December 4, 1993 and June 20, 1995 were conducted, unless otherwise noted, in accordance with the 1977 Edition of the ASME Boiler and Pressure Vessel code Section XI, through and including the summer of 1979 Addenda, with Relief / Relaxation Paragraphs specified in the Ten Year Plan for Grand Gulf Nuclear Station, (GGNS) Unit 1, (SERI-M-489.1). 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, Rev 5	Inservice Inspection Code Case Acceptability ASME Section XI, Division 1
Regulatory Guide 1.150, Rev.1	Ultrasonic Testing of Reactor Vessel Welds during Preservice and Inservice Inspection.
NUREG 0619, Rev.1	BWR Feedwater Nozzle and Control Rod Drive Return Nozzle Cracking.
IE Bulletin No. 79-17, Rev.1	Piping Cracks in Stagnant Borated Water Systems in Power Plants.
IE Bulletin No. 80-07	BWR Jet Pump Assembly Failure
IE Bulletin No. 80-13	Cracking in Core Spray Spargers
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	Rules for Ultrasonic Examination of Similar and

Dissimilar Metal Piping Welds

INTRODUCTION (Continued)

Code Case N-343	Alternative Scope of Examinations of Attachment Welds for Examination Categories B-H, B-K-1, and C-C of ASME Section XI, Division 1.
Code Case N-356	Certification Period for Level III NDE Personnel Section XI, Divisions 1, 2, and 3.
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-426	Extent of VT-1 Examinations, Category B-G-2 of Table IWB-2500-1 Section XI, Division 1.
Code Case N-427	Code Cases in Inspection Plans Section XI, Division 1.
Code Case N-435-1	Alternative Examination Requirements for Vessels with Wall Thickness 2 in. 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-498	Alternative Rules 10-Year Hydrostatic Pressure Test for Class 1 and 2 Systems
Generic Letter 88-01	NRC Position on IGSCC in BWR Austentic Stainless Steel Piping.

INTRODUCTION (Continued)

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 by IWA-6220. Refer to the table of contents for section titles. Section I contains the NIS-1 form for the Reactor Pressure Vessel and Piping Pressure Boundary Welds, Components, and Component Supports. Section II contains a Class 1, 2, and 3 Code Category Summary. Section III contains drawings / isometrics applicable to the components inspected. Section IV contains a copy of all approved Relief Requests referred to in the NIS-1 form. Section V contains abstracts for ASME Class I and II repairs and replacements. Section VI of the report contains abstracts for ASME Class III repairs and replacements; however their submittal to the U. S. Nuclear Regulatory Commission in not required and therefore these abstracts are not attached.

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INSERVICE INSPECTION SUMMARY REPORT FOR GRAND GULF NUCLEAR STATION UNIT 1

SECTION I

(NIS-1 FORM)

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FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTION As required by the provisions of the ASME Code Rules NIS-1-00011 Page 1 of 72

- 1. OWNER: ENTERGY OPERATIONS INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF REQUIRED) : NA
- 5. COMMERCIAL SERVICE DATE 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

7. COMPONENTS INSPECTED

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor	General Elect.	T47	N/A	13
Pressure	CB&I Nuclear		as placed as the second	
Vessel	Co.			
See Supplemental	Sheets 4 - 10			
Piping,	Bechtel/Reactor	N/A	N/A	N/A
Components,	Controls			
and Component	****			
Supports	Analysis and allower party transports to the			
See Supplemental	Sheets 11 - 66			
			-	

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTION As required by the provisions of the ASME Code Rules NIS-1-00011 Page 2 of 72

- 1. OWNER: ENTERGY OPERATIONS INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF REQUIRED): NA
- 5. COMMERCIAL SERVICE DATE 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)
- EXAMINATION DATES 12/04/93 to 06/20/95
 INSPECTION INTERVAL 07/01/85 to 01/01/97*
 GNRI-94/00184
- 10. ABSTRACT OF EXAMINATIONS INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR THE CURRENT INTERVAL. (SEE SUPPLEMENTAL SHEETS)
- 11. ABSTRACT OF CONDITIONS NOTED. (SEE SUPPLEMENTAL SHEETS)
- 12. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN. (SEE SUPPLEMENTAL SHEETS)

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

Date 4 /8 19 95

Signed ENTERGY OPERATIONS, INC. by

(Owner)

Certificate of Authorization No. (if applicable) NA Expiration Date NA

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Mississippi and employed by Arkwright Mutual/Mutual Boiler Division of Norwood, Mass. have inspected the components describe in this Owner's Data Report during the period 12/04/93 to 06/20/95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Data Report in accordance with the requirements of the ASME Code, Section XI.

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

Date 09/07 1995

Commissions

Factory Mutual Engineering

MS. 600 National Board, State, Province and No.

Inspector's Signature

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 3 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
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RESOLUTION OF OPEN ITEMS IDENTIFIED IN NIS-1-00010

٠.	QIE12G021C01	during this time frame	RFO7*
2.	Q1P41G004A02	Fireproofing could not be removed from items 2,3, and 4 to the extent necessary for	Alternate selection made

the exam.
*Note: Section XI credit taken in RFO6 (NIS-1-00010)

The items listed below were identified during RFO5 as items 5 and 6 and not resolved by the issuing date of NIS-1-00010.

3	Q1P41G014C05	Stanchion to inaccessible	pipe weld for examination	Inspected RFO7	in
4.	Q2P41G014C10	Stanchion to inaccessible	pipe weld for examination	Inspected RF07	in

Note: Section XI credit taken in RFO5 (NIS1-00009) for items 3 and 4.

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 4 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
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- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. 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, 1977 Edition, with addenda through and including Summer 1979. GGNS is also committed to meeting the requirements of Regulatory Guide 1.150, Rev.1 for Inservice Inspection, although Regulatory Guide 1.150 was not applicable during the GGNS pre-service. The term "Recordable Indications" (Rec. Ind.) refers to geometric and non-geometric indications which had amplitudes (for ultrasonic examination methods) or dimensions (for surface examination methods) exceeding the recording criteria of the examination procedures used. This should not be confused with the term "Reportable Indications" (Rep. Ind.) as defined by Regulatory Guide 1.150.

The term "Rejectable Indications" (Rej. Ind.) refers to indications/exams not meeting the acceptance criteria of Section XI.

When the term "visual exam" is used, it will designate a VT-1, VT-3, or VT-4 is performed.

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 5 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports)

Item NO. B3.10 Nozzle Inside Radius Section

CAT.	ITEM #	I.D. NUMBER	DRAWING NO.	No.of Rec.Ind.	No.of Rep.Ind.	Relief Req. Note/Para.
B-D	Weld	B13-N4A-IR	351N80B0007	1	0	I-00013/15, e, 11.12
B-D	Weld	B13-N4B-IR	351N80B0007	2	0	I-00013, e, 11.12
B-D	Weld	B13-N4C-IR	351N80B0007	4	0	I-00013/15, e, 11.12
B-D	Weld	B13-N4D-IR	351N80B0007	2	0	I-00013/15, e, 11.12
B-D	Weld	B13-N4E-IR	351N80B0007	0	0	100013, e
B-D	Weld	B13-N4F-IR	351N80B0007	0	0	I-00013/15,

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 6 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
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- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports)

Item No. B5.10 Nozzle-To-Safe-End-Weld

CAT.	ITEM #	I.D. NUMBER	DRAWING NO.	No.of Rec.Ind.	No.of Rep.Ind.	Relief Req. Note/Para.	
B-D	Weld	B13-N4A-KB	351N80B0007	0	0	I-00015,	
B-D	Weld	B13-N4B-KB	351N80B0007	0	0	I-00015, e	
B-D	Weld	B13-N4C-KB	351N80B0007	2	0	I-00015, e, 11.4	
B-D	Weld	B13-N4D-KB	351N80B0007	0	0	I-00015,	
B-D	Weld	B13-N4E-KB	351N80B0007	4	0	I-00015, e, 11.2,	
B-D	Weld	B13-N4F-KB	351N80B0007	3	0	11.5 I-00015, e, 11.6	
B-F	Weld	B13-N10-KB	351N80B0007	0	0	N/A	
B-F	Weld	B13-N10-KC	351N80B0007	0	0	N/A	

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 7 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
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- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATIONS Reactor Vessel (RPV) Volumetric Exams Item No. B6.20 Reactor Vessel Closure Studs

CAT	ITEM	I.D. NUMBER	DRAWING No.	No.of Rec.Ind	No.of Rep.Ind.	Relief Req Note/Para.
B-G-1	Studs	51 thru 76	351N80B0007	25	0	f, 11.14

10. ABSTRACT OF EXAMINATIONS Reactor Vessel (RPV) Surface Exams Item No. B6.30 Reactor Vessel Closure Studs

CAT	ITEM	I.D. NUMBER	DRAWING No.	No.of	No.of	Relief Req.
				Rec.Ind.	Rep.Ind.	Note/Para.
B-G-1	Studs	2,3,4,5,6,7,	351N80B0007	0	0	h.
		8,9,10.12,				
		13,14,17,18,				
		50 and 51				

Item No. B7.10 Reactor Vessel

B-G-2	BOLTS	CRD-IRM/LPRM	133D9489	0	0	I-00008
VI-1		BOLTING	(Œ Drw.)			

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 8 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
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- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10.ABSTRACT OF EXAMINATIONS Reactor Pressure Vessel (RPV) Visual Exams Item No. B13.10 Reactor Vessel Interior

CAT.	ITEM #	I.D. NUMBER	DRAWING NO.	No.of Rec.Ind.	No.of Rep.Ind.	Relief Req. Note/Para.
P-N-1 V'I-3 *	B13.10	SEE BELOW	351N80B0007 351N830009 351N85B0010 RPV-11-1 & 2		N/A	a, d

* The code requires visual exams (VT-3) on normally accessible areas each inspection period.

Items examined in the category and required for the third period include:

Core Spray Lines, SPARGERS, and Headers (I.E. 80-13) Accessible Area of Reactor Vessel Interior

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 9 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
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- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10.ABSTRACT OF EXAMINATIONS Reactor Pressure Vessel (RPV) Visual Exams Item No. B13.10 Reactor Vessel Interior

CAT.	ITEM #	I.D. NUMBER	DRAWING NO.	No.of Rec.Ind.	No.of Rep.Ind.	Relief Req. Note/Para.
B-N-1 VT-3 *	B13.10	SEE BELOW	351N80B0007 351N830009	0	N/A	a, d
			351N85B0010 RPV-11-1 & 2			

Additional RPV examinations performed during RF07:

Shroud Support Access Hole Cover Weldment (SIL# 462)

Steam Dryer Drain Channel Attachment Welds (SIL# 374)

LPCI Coupling (MNCR# 0212-93)

Reactor Separator 1 and 3 Standby (MNCR# 0308-93)

Jet Pump #10 (general mechanical condition)

Jet Pump Raiser Brackets - 50% (SIL# 551)

Jet Pump Adjusting Screws (100%)

Jet Pump #14 and #17 - general mechanical condition

Jet Pump #13 Restraining bracket

Sham Assembly #14 (MNCR# 0220-93)

Sham Assembly to Separator Flange Attachment Weld #14 (MNCR# 0220-93)

Core Spray Line @ 187°

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 10 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
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- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10.ABSTRACT OF EXAMINATIONS Reactor Pressure Vessel (RPV) Visual Exams

Item No. B13.20 Reactor Vessel Interior Attachment Welds

CAT.	ITEM #	I.D. NUMBER	DRAWING NO.	No. of Rec.Ind	No. of Rep.Ind	Relief Req. Note/Para.
	B13.20 Attach. Welds	N/A	351N80B0007	0	0	N/A

^{*} Lower Steam Dryer Guide Brackets; required each outage (IPC 90/3844).

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 11 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
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- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. 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 piping system, subdivided into examination methods and component descriptions.

In addition to the normal ASME Code requirements, there are certain areas in which augmented examinations were performed. These included welds requiring more frequent examinations, as specified by NUREG-0313 (Generic Letter 88-01) and welds referred to as "no break zone welds" (high energy break exclusion areas). Therefore, certain NUREG-0313 welds and "no break zone welds" have been included in this report, if applicable.

The term "Recordable Indications" (Rec. Ind.) refers to geometric and non-geometric indications which had amplitudes (for ultrasonic examination methods) or dimensions (for surface examination methods) exceeding the recording criteria of the examination procedure used.

The term "Rejectable Indications" (Rej. Ind.) refers to indications/exams not meeting the acceptance criteria of Section XI.

When the term "visual exam" is used, it will be designated as a VT-1, VT-3, or VT-4.

Most piping classes are designated by a three letter code. The first letter indicates the primary flange pressure rating; the second letter indicates the type of material utilized; the third letter indicates the code to which the piping is designed. For those piping systems where the three letter code is not applicable, the ASME class and general material category will be noted.

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 12 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
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FIRST LETTER - PRIMARY PRESSURE RATING

D - 900#

E - 600#

G - 300#

H - 150#

SECOND LETTER - MATERIAL

A - Alloy Steel

B - Carbon Steel

C - Austenitic Stainless Steel

THIRD LETTER - APPLICABLE CODE

A - ASME Class 1

B - ASME Class 2

C - ASME Class 3

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 13 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
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- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) B21 Feedwater - Volumetric Exams

Cat.	Item	I.D.	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
B-J	Weld	Q1B21G026W43	FW-11-4	DBA	12"	11 163'	0	0
C-F	Weld	Q1B21G030-D100-4	FW-8-4	DBB	24"	8 146'	3 11.7	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 14 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
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- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)
- 10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports)

 B21 Feedwater Surface Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para Relf. Req.	No. of Rej. Ind.
B-J	Weld	Q1B21G026W43	FW-11-4	DBA	12"	11 163*	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 15 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
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- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) B21 Main Steam - Volumetric Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
B-J	Weld	Q1B21G001W11	MS-11-5	1	28"	11 147'	0	0
В-Ј	Weld	Q1B21G010-B1-B-IA	MS-11~5	1	28"	11 147*	0	0
B-J	Weld	Q1B21G10-B1-B-IB	MS-11-5	1	28"	11 147'	0	0
B-G-1	Studs	Q1B21F028C	MS-8-3	1	28	8 139'	0	0
B-G-1	Studs	Q1B21F022C	MS-11-9	1	28"	11 147'	0	0
B-G-1	Studs	Q1B21F022D	MS-11-12	1	28"	11 147'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 16 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) B21 Main Steam - Surface Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
В-Ј	Weld	Q1B21G153 W 20	MS-1 -13	DBA	2"	11 171'	0	0
B-J	Weld	Q1B21G001W11	MS-11-9	1	28"	11 147'	0	0
В-Ј	Weld	Q1B21G010-B1-B-IA	MS-11-9	1	28"	11 147'	0	0
B-J	Weld	Q1B21G10-B1-B-IB	MS-11-9	1	28"	11 147'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 17 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)
- 10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports)
 B21 Main Steam Visual Exams

		I.D.		Class/		Area/	No. of Rej. Ind. Note/Para.
Cat.	Item	Number	Dwg.	Mat'l	Size	Elv.	Relf. Req.
F-B VT-3	Hanger	Q1B21G153H01	MS-11-13	DBA	2"	11 161'	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 18 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) B21 Main Steam Safety Relief Valves - Visual Exams

						No. Rej.	of Ind.
Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Note	/Para. . Req.
DA-DB VT-3	Att Weld	Q1B21G005B101A	RV-11-1	GBC	10"	11 147'	0
DA-DB VI-3	Att. Weld	Q1B21G005B101B	RV-11-5	æc	10"	11 147'	0
DA-DB VT-3	Att. Weld	Q1B21G005B102B	RV-11-5	GBC.	10"	11 147'	0
DA-DB VI-3	Att. Weld	Q1B21G023R11	RV-11-8	GBC	10"	11 114	0
DA-DB VI-3	Att. Weld	Q1B21A101V3-S1A	RV-11-6	EBC	N/A	11 93'	0
DA-DB VI-3	Att Weld	Q1B21G005B101C	RV-11-11	GBC .	10"	11 147*	0
DA-DB VT-3	Att. Weld	Q1B21G005B102C	RV-11-11	EBC	10"	11 147'	0
DA-DB VI-3	Att. Weld	Q1B21G025R04	RV-11-15	ŒC	12"	11 114'	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 19 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) B21 Main Steam Safety Relief Valves - Visual Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rej. Ind. Note/Para. Relf. Req.
DA-DB VI-3	Att. Weld	Q1B21G005B101D	RV-11-16	ŒC	10"	11 147'	0
DA VI-3	Integ. Att. Weld	Q1B21A003D-A1	RV-11-11	N/A	N/A	11 161'	0
DA VT-3	Integ. Att. Weld	Q1B21A003D-A2	RV-11-11	N/A	N/A	11 161'	0
DA VT-3	Integ. Att. Weld	Q1B21A003D-A3	RV-11-11	N/A	N/A	11 161'	0
DA VT-3	Integ. Att. Weld	Q1B21A003D-A4	RV-11-11	N/A	N/A	11 161'	0
DA VI-3	Att. Weld	Q1B21A100A-A1	RV-11-16	N/A	N/A	11 161'	0
DA VI-3	Integ. Att. Weld	Q1B21A100A-A2	RV-11-16	N/A	N/A	11 161'	0
DA VT-3	Integ. Att. Weld	Q1B21A100A-A3	RV-11-16	N/A	N/A	11 161'	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 20 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) B21 Main Steam Safety Relief Valves - Visual Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rej. Ind. Note/Para. Relf. Req.
DA VI~3	Integ. Att. Weld	Q1821A100A-A4	RV-11-16	N/A	N/A	11 161'	0
FB VT-3	Supp.	Q1B21A003D-S1	RV-11-11	N/A	N/A	11 161'	0
FB VI-3	Supp.	Q1B21A003D-S2	RV-11-11	N/A	N/A	11 161'	0
FB VT-3	Supp.	Q1B21A003D-S3	RV-11-11	N/A	N/A	11 161'	0
FB VT-3	Supp.	Q1B21A003D-S4	RV-11-11	N/A	N/A	11 161'	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 21 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) B33 Reactor Recirculation System - Volumetric Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
B-J	Weld	Q1B33G001W4	RR-11-2	1	24"	11 101'	0 I-00010	0
B-J	Weld	Q1B33G001W4-L	RR-11-2	1	24"	11 101'	0	0
B-J	Weld	Q1B33G001W8	RR-11-3	1	24"	11 101'	6 11.8 I-00010	0
В-Ј	Weld	Q1B33G001W8-L	RR-11-3	1	24"	11 101'	4 11.9	0
B-J	Weld	Q1B33G001W10	RR-11-3	1	24'	11	1 11.4 I-00010	0
B-J	Weld	Q1B33G001W10-L	PR-11-3	1	24'	11 101'	0	0
В-Ј	Weld	Q1B33G024W145	RR-11-19	DBA	4"	11 113'	0	0
B-J	Weld	Q1B33G024W152	RR-11-19	DBA	4"	11 113'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 22 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) B33 Reactor Recirculation System - Surface Exams

							No. of Rec. Ind.	No. of
Cat. B-J	Item Weld	I.D. Number Q1B33G001W4	Dwg. RR-11-2	Class/ Mat'l	Size 24"	Area/ Elv. 11 101'	Note/Para. Relf. Reg.	Rej. Ind.
B-U	Weld	Q1B33G001W4-L	RR-11-2	1	24"	11 101'	0	0
В-Ј	Weld	Q1B33G001W8	RR-11-3	1	24"	11 101'	0	0
B-J	Weld	Q1B33G001W8-L	RR-11-3	1	24"	11 101'	0	0
В-Ј	Weld	Q1B33G001W10	RR-11-3	1	24'	11 101'	0	0
B-J	Weld	Q1B33G001W10-L	RR-11-3	1	24*	11 101'	0	0
B-J	Weld	Q1B33G024W145	RR-11-19	DBA	4"	11 113'	0	0
B-J	Weld	Q1B33G024W152	RR-11-19	DBA	4"	11 113'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 23 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) B33 Reactor Recirculation System - Surface Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
B-K-1	Att. Weld	Q1B33C001A-C1	RR-11-2	1	24"	11 101'	11.10	0
B-K-1	Att. Weld	Q1B33C001A-C2	RR-11-2	1	24"	11 101'	0	0
B-K-1	Att. Weld	Q1B33C001A-C3	RR-11-2	1	24"	11 101'	0	0
B-K-1	Att. Weld	Q1B33C001A-C4	RR-11-2	1	24"	11 101'	0	0
B-K-1	Att. Weld	Q1B33C001B-C5	RR-11-9	1	24'	11 101'	0	0
B-K-1	Att. Weld	Q1B33C001B-C6	RR-11-9	1	24'	11 101'	0	0
B-K-1	Att. Weld	Q1B33C001B-C1	RR-11-9	1	24"	11 101'	0	0
B-K-1	Att. Weld	Q1B33GC001B-C2	RR-11-9	1	24"	11 101'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 24 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) B33 Reactor Recirculation System - Surface Exams

Cat.	Iten	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
B-K-1	Att. Weld	Q1B33C001B-C3	RR-11-9	1	24"	11 101'	0	0
B-K-1	Att. Weld	Q1B33C001B-C4	RR-11-9	1	24"	11 101'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 25 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)
- 10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports)

 B33 Reactor Recirculation System Visual Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/	No. of Rej. Ind. Note/Para. Relf. Reg.
F-B VI-3	Hanger	Q1B33G024C03	RR-11-19	DBA	4"	11 113'	0
B-M-2 VT-3	Valve	Q1B33F067A	RR-11-3	1	24"	11 101'	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 26 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) C41 Standby Liquid Control - Visual Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rej. Ind. Note/Para. Relf. Req.
FB VT-3	Hanger	Q1C41G120C03	IC-11-8	DCA	1.5"	11 161'	0
FB VT-3	Hanger	Q1C41G120C04	LC-11-8	DCA	1.5′	11 161'	0
FB VT-3	Hanger	Q1C41G120R01	LC-11-8	DCA	1.5"	11 161'	0
FB VT-3	Hanger	Q1C41G119C01	LC-11-11	DCA	1.5"	11 161'	0
FB VT-4	Hanger	Q1C41G136C02	LC-11-13	DBA	1.5"	11 147'	0 g

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 27 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) E12 Residual Heat Removal System - Volumetric Exams

				Mass/		Amm/	No. of Rec. Ind. Note/Para.	No. of
Cat.	Item	Number	Dwg.	Class/ Mat'l	Size	Elv.	Relf. Reg.	Rej. Ind.
B-J	Weld	Q1E12G014W45	RH-8-8	DBA	6"	8 119'	0	0
C-A	Weld	Q1E12B001A-C-4	RH-7-19	Heat Exch.	N/A	7 119'	3 11.2	0
С-В	Weld	Q1E12B001A-N3	RH-7-19	Heat Exch.	N/A	7 119'	0	0
С-В	Inside Radius	Q1E12B001A-N3	RH-7-19	Heat Exch.	N/A	7 119'	0	0
С-В	Weld	Q1E12B001A-N4	RH-7-19	Heat Exch	N/A	7 119 ′	7 11.11	0
С-В	Inside Radius	Q1E12B001A-N4	RH-7-19	Heat Exch	N/A	7 119'	0	0
C-F	Weld	Q1E12G014W38	RH-8-4	DBB	12"	8 119 ′	0	0
C-F	Weld	Q1E12G014W127	RH-8-4	DBB	12"	8 119'	11.4	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 28 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) E12 Residual Heat Removal System - Volumetric Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
C-F	Weld	Q1E12G014W128	RH-8-4	DBB	12"	8 119'	111.4	0
C-F	Weld	Q1E12G014W98	RH-8-4	DBB	12"	8 119'	2	0
C-F	Weld	Q1E12G014-18-8-2	RH-8-4	DBB	12"	8 119'	0	0
C-F	Weld	Q1E12G014W134	RH-8-4	DBB	12"	8 119'	0	0
C-F	Weld	Q1E12G014W135	RH-8-4	DBB	12"	8 119'	1 11.2	0
C-F	Weld	Q1E12G014-18-8-5	RH-8-4	DBB	12"	8 119'	2 11.4	0
C-F	Weld	Q1E12G014W129	RH-8-4	DBB	12"	8 119'	2	0
C-F	Weld	Q1E12G010W6	RH-8-10	ŒB	20"	8 119'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 29 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) E12 Residual Heat Removal System - Volumetric Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
C-F	Weld	Q1E12G010-8-8-1	RH-8-12	GBB	24"	8 93'	0	0
C-F	Weld	Q1E12G014W1	RH-8-17	GBB	20"	8 93'	0	0
C-F	Weld	Q1E12G014W508	RH-8-20	DBB	12"	8 119'	0	0
C-F	Weld	Q1E12G010W34	RH-8-27	ŒB	20'	8 119'	0	0
C-F	Weld	Q1E12G009-5-8-3	RH-8-30	GBB	20"	8 119 ′	0	0
C-F	Weld	Q1E12G009-5-8-4	RH-8-30	ŒB	20"	8 119'	0	0
C-F	Weld	Q1E12G009W14	RH-8-30	ŒB	20"	8 119'	0	0
C-F	Weld	Q1E12G009W8	RH-8-30	ŒB	20"	8 93 ′	0	. 0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 30 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)
- 10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports)
 E12 Residual Heat Removal System Volumetric Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
C-F	Weld	Q1E12G009-1-8-1	RH-8-31	GBB	20"	8 93 ′	0	0
C-F	Weld	Q1E12G009-1-8-2	RH-8-31	GBB	20"	8 93*	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 31 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
B-J	Weld	Q1E12G014W44	RH-8-8	DBA	6"	8 119'	0	0
B-J	Weld	Q1E12G014W45	RH-8-8	DBA	6"	8 119'	0	0
C-A	Weld	Q1E12B001A-N3	RH-7-19	Heat Exch.	N/A	7 119'	0	0
C-A	Weld	Q1E12B001A-N4	RH-7-19	Heat Exch.	N/A	7 119'	0	0
C-C	Shell Pin	Q1E12C002B-SB-12	RH-8-12	Pump	N/A	8 93 '	0 I-00009, 11.15, 12.2	0
C-C	Lug	Q1E12G009H03	RH-8-31	ŒB	18"	8 119'	0	0
c-c	Lug	Q1E12G010R04	RH-8-11	ŒB	24"	8 93'	0	0
C-F	Weld	Q1E12G014W38	RH-8-4	DBB	12"	8 119'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 32 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
C-F	Weld	Q1E12G014W127	RH-8-4	DBB	12"	8 119'	0	0
C-F	Weld	Q1E12G014W128	RH-8-4	DBB	12"	8 119'	0	0
C-F	Weld	Q1E12G014W98	RH-8-4	DBB	12"	8 119'	0	0
C-F	Weld	Q1E12G014-18-8-2	RH-8-4	DBE	12"	8 119'	0	0
C-F	Weld	Q1E12G014W134	RH-8-4	DBB	12"	8 119'	0	0
C-F	Weld	Q1E12G014W135	RH-8-4	DBB	12"	8 119'	0	0
C-F	Weld	Q1E12G014-18-8-5	RH-8-4	DBB	12"	8 119'	0	0
C-F	Weld	Q1E12G014W129	RH-8-4	DBB	12"	8 119'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 33 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995.
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS, 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
C-F	Weld	Q1E12G012W53	RH-8-9	GBB	18"	8 119'	0	0
C-F	Weld	Q1E12G010W6	RH-8-10	GBB	20"	8 119'	0	0
C-F	Weld	Q1E12G010W12	RH-8-11	ŒB	18"	8 93'	0	0
C-F	Weld	Q1E12G010-8-8-1	RH-8-12	GBB	24"	8 93*	0	0
C-F	Weld	Q1E12G014W1	RH-8-17	ŒB	20"	8 93'	0	0
C-F	Weld	Q1E12G014W501	RH-8-17	GBB	6"	8 93'	0	0
C-F	Weld	Q1E12G014W503	RH-8-17	GBB	6"	8 93'	0	0
C-F	Weld	Q1E12G014W511	RH-8-17	GBB	18"	8 93'		0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 34 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
C-F	Weld	Q1E12G014W507	RH-8-20	GBB	12"	8 119'	0	0
C-F	Weld	Q1E12G014W508	RH-8-20	GBB	12"	8 119'	0	0
C-F	Weld	Q1E12G010W34	RH-8-30	GBB	20"	8 119'	0	0
C-F	Weld	Q1E12G009-5-8-3	RH-8-30	GBB	20"	8 119 ′	0	0
C-F	Weld	Q1E12G009-5-8-4	RH-8-30	GBB	20"	8 119'	0	0
C-F	Weld	Q1E12G009W14	RH-8-30	GBB	20"	8 119'	0	0
C-F	Weld	Q1E12G009W8	RH-8-30	CBB	20"	8 93'	0	0
C-F	Weld	Q1E12G009-1-8-1	RH-8-31	GBB	20"	8 93'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 35 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
C-F	Weld	Q1E12G009-1-8-2	RH-8-31	GBB	20"	8 93'	0	0
C-F	Weld	Q1E12G009W9	RH-8-31	ŒB	18"	8 93'	0	0
C-F	Weld	Q1E12G009W10	RH-8-31	ŒB	18"	8 119'	0	0
C-G	Weld	Q1E12C002B-SB-2	RH-8-12	II	N/A	8 93'	0 I-00009	0
C-G	Weld	Q1E12C002B-SB-3	RH-8-12	II	N/A	8 93'	0	0
C-G	Weld	Q1E12C002B-SB-4	RH-8-12	II	N/A	8 93'	0	0
C-G	Weld	Q1E12C002B-SB-5	RH-8-12	II	N/A	8 93'	0	0
C-G	Weld	Q1E12C002B-SB-6	RH-8-12	II	N/A	8 93 '	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 36 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)
- 10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports)
 E12 Residual Heat Removal System Surface Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
C-G	Weld	Q1E12C002B-SB-7	RH-8-12	II	N/A	8 93'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 37 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

							No. of
Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	Rej. Ind. Note/Para. Relf. Req.
D-B VI-3	Att. Weld	Q1E12G011C01	RH-18-38	HBC	18"	8 93'	0
D-B VT-3	Att. Weld	Q1E12G011H02	RH-8-38	HBC	18"	8 93*	0
D-B VT-3	Att. Weld	Q1E12G011R02	RH-8-38	HBC	18"	8 93'	0
F-A VT-3	Hanger	Q1E12G017A01	RH-11-22	GBB	18"	11 208'	0
F-A VT-3	Hanger	Q1E12G025A03	RH-8-32	ŒB	18"	8 93'	0
F-B VT-3	Hanger	Q1E12G014H06	RH-8-15	HBB	4"	8 93'	0
F-B VT-3	Hanger	Q1E12G011H02	RH-8-38	HBC	18"	8 93'	0
F-B VI-3	Hanger	Q1E12G015R14	RH-11-18	GBB	18"	11 135'	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 38 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rej. Ind. Note/Para. Relf. Req.
F-B VI-3	Hanger	Q1E12G021C01	RH-8-2	DBB	6"	8 139'	0
F-C VT-3 VT-4	Hanger	Q1E12G015H01	RH-11-13	GBB	14"	11 131'	0
F-C VT-3 VT-4	Hanger	Q1E12G015H17	RH-11-19	GBB	18"	11 185*	0
F-C VT-3 VT-4	Hanger	Q1E12G015H18	RH-11-16	GBB	18"	11 161'	0
F-C VI-3 VI-4	Hanger	Q1E12G021H03	RH-8-3	DBB	12"	8 139'	0
B-M-2 V-3	Valve	Q1E12F019	RH-8-8	DBA	6"	8 119'	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 39 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)
- 10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports)
 E21 Low Pressure Core Spray Volumetric Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Notes/Para. Relf. Req.	No. of Rej. Ind.
B-J	Weld	Q1F21G002-10-11-3	LP-11-2	DBA	14"	11 141'	0	0
C-D	Bolts	Q1F21C001	LP-9-3	II	N/A	9 93 ′	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 40 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)
- 10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports)
 E21 Low Pressure Core Spray- Surface Exams

					No. of			
		I.D.		Class/		Area/	Rec. Ind. Note/Para.	No. of Rej.
Cat.	Item	Number	Dwg.	Mat'l	Size	Elv.	Relf. Req.	Ind.
B-J	Weld	Q1E21G002-10-11-3	LP-11-2	DBA	14"	11	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 41 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) E51 Reactor Core Isolation Cooling- Volumetric Exams

							No. of Rec. Ind.	No. of
Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Elv.	Note/Para. Relf. Req.	Rej. Ind.
В-Ј	Weld	Q1E51G001W71	RI-8-9	DBA	6"	8 119'	0	0
B-J	Weld	Q1E51G001W72	RI-8-9	DBA	6"	8 119'	0	0
B-J	Weld	Q1E51G001-6-8-1	RI-8-9	DBA	6"	8 119'	0	0
B-J	Weld	Q1E51G001-6-8-2	RI-8-9	DBA	6"	8 119*	0	0
В-Ј	Weld	Q1E51G001W35	RI-8-10	DBA	6"	8 119'	0	0
B-J	Weld	Q1E51G001-28-11-4	RI-11-4	DBA	6"	11 208'	0	0
B-J	Weld	Q1E51G001W13	RI-11-7	DBA	6"	11 114'	0	0
C-F	Weld	Q1E51G001W62	RI-8-10	DBB	6"	8 119 '	111.4	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 42 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) E51 Reactor Core Isolation Cooling- Volumetric Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
C-F	Weld	Q1E51G001W65	RI-8-10	DBB	6"	8 119'	111.2	0
C-F	Weld	Q1E51G001W66	RI-8-10	DBB	6"	8 119'	0	0
C-F	Weld	Q1E51G001W67	RI-8-10	DBB	8"	8 119'	1 11.4	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 43 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) E51 Reactor Core Isolation Cooling- Surface Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
B-J	Weld	Q1E51G001W71	RI-8-9	DBA	6"	8 119'	0	0
B-J	Weld	Q1E51G001W72	RI-8-9	DBA	6"	8 119'	0	0
В-Ј	Weld	Q1E51G001-6-8-1	RI-8-9	DBA	6"	8 119'	0	0
В-Ј	Weld	Q1E51G001-6-8-2	RI-8-9	DBA	6"	8 119'	0	0
B-J	Weld	Q1E51G001W35	RI-8-10	DBA	6"	8 119'	0	0
B-J	Weld	Q1E51G001-28-11-4	RI-11-4	DBA	6"	11 208'	0	0
B-J	Weld	Q1E51G001W13	RI-11-7	DBA	6"	11 114'	0	0
C-F	Weld	Q1E51G001W62	RI-8-10	DBB	6"	8 119'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 44 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) E51 Reactor Core Isolation Cooling- Surface Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
C-F	Weld	Q1E51G001W65	RI-8-10	DBB	6"	8 119'	0	0
C-F	Weld	Q1E51G001W66	RI-8-10	DBB	6"	8 119'	0	0
C-F	Weld	Q1E51G001W67	RI-8-10	DBB	8"	8 119'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 45 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) E51 Reactor Core Isolation Cooling- Visual Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Ind. Note/Para. Relf. Req.
F-A VT-3	Hanger	Q1E51G001R13	RI-11-5	DBA	6"	11 147*	0
F-B VT-3	Hanger	Q1E51G004C01	RI-8-1	DBB	10"	8 139'	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 46 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) G33 Reactor Water Cleanup System - Volumetric Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
B-J	Weld	Q1G33G002W14	CU-11-2	DBA	6"	11 114'	0	0
В-Ј	Weld	Q1G33G002-20-11-1	CV-11-2	DBA	6"	11 114'	0	0
В-Ј	Weld	Q1G33G002-20-11-2	CU-11-2	DBA	6"	11 114'	0	0
В-Ј	Weld	Q1G33G002-20-11-3	CU-11-2	DBA	6"	11 114'	0	0
B-J	Weld	Q1G33G002W78	CV-11-2	DBA	6"	11 114'	0	0
В-Ј	Weld	Q1G33G002W79	CU-11-2	DBA	6"	11 114'	0	0
В-Ј	Weld	Q1G33G002W112	CU-11-2	DBA	6"	11 114'	0	0
B-J	Weld	Q1G33G002-56-11-1	CU-11-2	DBA	6"	11 114'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 47 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) G33 Reactor Water Cleanup System - Volumetric Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind., Note/Para. Relf. Req.	No. of Rej. Ind.
B-J	Weld	Q1G33G002W15	CU-11-2	DBA	6"	11 114'	0	0
B-J	Weld	Q1G33G002-20-11-5	CU-11-2	DBA	6"	11 114'	1 11.2	0
B-J	Weld	Q1G33G002W16	CU-11-3	DBA	6"	11 114'	11.4	0
B-J	Weld	Q1G33G002W143	CU-11-3	DBA	6"	11 114'	0	0
B-J	Weld	Q1G33G002W113	CU-11-3	DBA	6"	11 114'	0	0
B-J	Weld	Q10G33G002-57-11-1	CU-11-3	DBA	6"	11 114'	0	0
B-J	Weld	Q1G33G002W114	CU-11-3	DBA	6"	11 114'	0	0
B-J	Weld	Q1G33G002W17	CU-11-3	DBA	6"	11 114'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 48 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) G33 Reactor Water Cleanup System - Volumetric Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind., Note/Para. Relf. Req.	No. of Rej. Ind.
B-J	Weld	Q1G33G011W5	CU-11-11	DBA	6"	11 161'	0	0
B-J	Weld	Q1G33G011W7	CV-11-11	DBA	6"	11 161'	0	0
B-J	Weld	Q1G33G011W8	CV-11-11	DBA	6"	11 161'	0	0
В-Ј	Weld	Q1G33G011-4-11-1	CU-11-11	DBA	6"	11 161'	0	0
B-J	Weld	Q1G33G012W71	CU-11-13	DBA	6"	11 161'	0	0
B-J	Weld	Q1GG33G012W72	CJ-11-13	DBA	6"	11 161'	0	0
B-J	Weld	Q1G33G011W6	CU-11-11	DBA	6"	11 161'	0	0
В-Ј	Weld	Q1G33G011-5-11-1	W-11-11	DBA	6"	11 161'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 49 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)
- 10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports)

 G33 Reactor Water Cleanup System Volumetric Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind., Note/Para. Relf. Req.	No. of Rej. Ind.
B-J	Weld	Q1G33G011-5-11-2	CU-11-11	DBA	6"	11 161'	0	0
C-F	Weld	Q1G33G00°W5	CV-8-2	DBB	6"	8 139'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 50 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) G33 Reactor Water Cleanup System - Surface Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind., Note/Para. Relf. Req.	No. of Rej. Ind.
В-Ј	Weld	Q1G33G00ZW14	CU-11-2	DBA	6"	11 114*	0	0
B-J	Weld	Q1G33G002-20-11-1	CU-11-2	DBA	6"	11 114'	0	0
B-J	Weld	Q1G33G002-20-11-2	CU-11-2	DBA	6"	11 114'	0	0
B-J	Weld	Q1G33G002-20-11-3	CU-11-2	DBA	6"	11 114'	0	0
В-Ј	Weld	Q1G33G002W78	CU-11-2	DBA	6"	11 114'	0	0
B-J	Weld	Q1G33G002W79	CU-11-2	DBA	6"	11 114'	0	0
B-J	Weld	Q1G33G002W112	CU-11-2	DBA	6"	11 114'	0	0
В-Ј	Weld	Q1G33G002-56-11-1	CU-11-2	DBA.	6"	11 114'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 51 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BGX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) G33 Reactor Water Cleanup System - Surface Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Reg.	No. of Rej. Ind.
B-J	Weld	Q1G33G002W15	CU-11-2	DBA	6"	11 114'	0	0
В-Ј	Weld	Q1G33G002-20-11-5	CU-11-2	DBA	6"	11 114'	1 11.2	0
B-J	Weld	Q1G33G002W16	CU-11-3	DBA	6"	11 114'	1 11.4	0
B-J	Weld	Q1G33G002W143	CU-11-3	DBA	6"	11 114'	0	0
B-J	Weld	Q1G33G002W113	CU-11-3	DBA	6"	11 114'	0	0
B-J	Weld	Q1GG33G002-57-11-1	CU-11-3	DBA	6"	11 114'	0	0
B-J	Weld	Q1G33G002W114	CU-11-3	DBA	6"	11 114'	0	0
B-J	Weld	Q1G33G02W17	CU-11-3	DBA	6"	1.1 114'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 52 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) G33 Reactor Water Cleanup System - Surface Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
В-Ј	Weld	Q1G33G011W5	CU-11-11	DBA	6"	11 161'	0	0
В-Ј	Weld	Q1G33G011W7	CU-11-11	DBA.	6"	11 161'	0	0
В-Ј	Weld	Q1G33G011W8	CU-11-11	DBA	6"	11 161'	0	0
B-J	Weld	Q1G33G011-4-11-1	CJ-11-11	DBA	6"	11 161'	0	0
B-J	Weld	Q1G33G01 <i>2W</i> 71	CU-11-13	DBA	6"	11 161'	0	0
B-J	Weld	Q1GG33G012W72	CU-11-13	DBA	6"	11 161'	0	0
B-J	Weld	Q1G33G011W6	CU-11-11	DBA	6"	11 161'	0	0
В-Ј	Weld	Q1G33G011-5-11-1	CV-11-11	DBA	6"	11 161'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 53 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

G33 Reactor Water Cleanup System - Surface Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	No. of Rec. Ind. Note/Para. Relf. Req.	No. of Rej. Ind.
B-J	Weld	Q1G33G011-5-11-2	Œ-11-11	DBA	6"	11 161'	0	0
C-F	Weld	Q1G33G001W5	W-8-2	DBB	6"	8 139'	0	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 54 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports)

G33 Reactor Water Cleanup System - Visual Exams

No. of

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	Rej. Ind. Note/Para. Relf. Reg.
F-C VI-3 VI-4	Hanger	Q1G33G002H13	CU-11-3	DBA	6"	11 114'	0
F-C VT-3	Hanger	Q1G33G002R21	CU-11-2	DBA	6"	11 114'	0 11.13,12.1

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 55 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) G41 Fuel Pool Cooling and Clean-Up - Visual Exams No. of

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	Rej. Ind. Note/Para. Relf. Req.
D-C VI-3	Att. Weld	Q1G41G006A01	FC-9-23	HBC	18"	9 93'	0
FA-FB VT-3	Att. Weld	Q1G41B001A-S1A-A	FC-9-12	HBC	8"	9 185'	0
FA-FB VI-3	Att. Weld	Q1G41B001A-S2A-A	FC-9-12	HBC	8"	9 185'	0
FA-FB VT-3	Att. Weld	Q1G41B001A-S1B-A	FC-9-12	HBC	8"	9 185'	0
FA-FB VI-3	Att. Weld	Q1G41B001A-S2B-A	FC-9-12	HBC	8"	9 185'	0
F-A VI-3	Hanger	Q1G41G006A01	FC-9-23	HBC	18"	9 93'	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 56 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

No. of

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) P41 Standby Service Water System - Visual Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	Rej. Ind Note/Para. Relf. Req.
DA, DB , DC VI-3	Att. Weld	Q1P41G014C05	WS-YD-11	HBC	20"	YD <133'	0
DA, DB ,DC VI-3	Att. Weld	Q2P41G014C10	WS-YD-11	HBC	24"	YD <133'	0
FA VT-3	Hanger	Q2P41G013A01	WS-YD-9	HBC	24"	YD 133'	0
FB VI-3	Hanger	Q1P41G009R07	WS-12-3	HBC	10"	12 133'	0
FB VI-3	Hanger	Q1P41G008A03	WS-12-4	HBC	10"	129 133'	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 57 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS, 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) P75 Standby Diesel Generator System - Visual Exams No. of

							Son Total
Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/	ej. Ind. Note/Para. Nelf. Req.
DA, DB, DC VT-3	Att. Weld	Q1P75-S1A Q1P75B004B	SDG-12-11	N/A	N/A	12 133'	0
DA, DB, DC VT-3	Att. Weld	Q1P75-S2A Q1P75B004B	SDG-12-11	N/A	N/A	12 133'	0
DA, DB, DC VT-3	Att. Weld	Q1P75-S3A Q1P75B004B	SDG-12-11	N/A	N/A	12 133'	0_
FA, FB, FC VI-3	Support	Q1P75-S1 Q1P75A004B	SDG-12-11	N/A	N/A	12 133'	0
FA, FB, FC VT-3	Support	Q1P75-S2 Q1P75A004B	SDG-12-11	N/A	N/A	12 133'	0
EA, FB, FC VT-3	Support	Q1P75-S3 Q1P75A004B	SDG-12-11	N/A	N/A	12 133'	0
EA, FB, FC VT-3	Support	Q1P75-S4 Q1P75B004B	SDG-12-11	N/A	N/A	12 133*	0
FC VI-3	Support	Q1P75-S1 Q1P75AB004B	SDG-12-11	N/A	N/A	12 133*	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 58 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS, 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) P75 Standby Diesel Generator System - Visual Exams

~	Thom	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	Rej. Ind. Note/Para. Relf. Req.
Cat.	Item	PARILEEL	ing.	TALL A	-	Add V s	
FA, FB, FC VT-3	Support	Q1P75-S2 Q1P75B004B	SDG-12-11	N/A	N/A	12 133'	0
FA, FB, FC VT-3	Support	Q1P75-S3 Q1P75B004B	SDG-12-11	N/A	N/A	12 133'	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 59 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

No. of

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports)
P75 Standby Diesel Generator System - Visual Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	Rej. Ind. Note/Para. Relf. Req.
DA, DB, DC VT-3	Att. Weld	Q1P75-S1A Q1P75B004B	SDG-12-11	N/A	N/A	12 133'	0
DA, DB, DC VI-3	Att. Weld	Q1P75-S2A Q1P75B004B	SDZ-12-11	N/A	N/A	12 133'	0
DA, DB, DC VI-3	Att. Weld	Q1P75-S2A Q1P75B004B	SDG-12-11	N/A	N/A	12 133'	_ 0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 60 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

No of

10. ABSTRACT OF EXAMINATION (Piping Welds, Components and Supports) P81 HPCS Generator System - Visual Exams

Cat.	Item	I.D. Number	Dwg.	Class/ Mat'l	Size	Area/ Elv.	Rej. Ind. Note/Para. Relf. Req.
DA, DB, DC VI-3	Att. Weld	Q1P81-S1A Q1P81B001	HDG-12-1	N/A	N/A	12 133'	0
DA, DB, DC VI-3	Att. Weld	Q1P81-S2A Q1P81B001	HDG-12-1	N/A	N/A	12 133'	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 61 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Class I Valves)

CLASS I VALVES

A. CODE REQUIREMENTS

The internal surfaces of ASME Class I valves larger than 4 inches NPS shall be visually inspected once each ten year interval in accordance with ASME Section XI, Table IWB-2500-1, Examination Category B-M-2, Item B12.40.

B. INSERVICE INSPECTION

Applicable inservice inspections are to be performed in accordance with the requirements of ASME Section XI, 1980 Edition through and including the winter 1980 Addenda. Note 3 of Table IWB-2500-1 Category B-M-2 states, "Examinations are limited to one valve within each group of valves that are of the same construction design, such as globe, gate or check valve, and manufacturing method and that are performing 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 a group will satisfy inspection requirements for that particular group, thus ISI credit will be taken for only one valve per group. Should disassembly be required for plant reasons earlier than the third period, an inspection may be performed at that time to fulfill requirements. The examination is required for the valve body internal surfaces only and doesn't include the internal components of the valve.

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 62 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)
- 10. ABSTRACT OF EXAMINATION (Class I Valves) cont.

 ITEM NO. B12.40: CATEGORY B-M-2
- C. GROUPINGS

There are nine groups of valves at Grand Gulf Nuclear Station. The following is the inspection status of each group:

- Group #1 Contains two 24" piston check valves. To date, both of the valves have been VT-3 examined and were found acceptable. The requirements of Section XI for Group #1 Category "B-M-2" have been satisfied.
- Group #2 Contains four 14" gate valves, one 12" gate valve, one 20" gate valve and two 24" gate valves. To date none of this group have been inspected.
- Croup #3 Contains one 6" swing check valve, one 12" swing check valve, four 14" swing check valves, and two 24" swing check valves. To date, the two 24", one 12" and one 14" check valves have been VT-3 examined and were found acceptable. The requirements of Section XI for Group #3 Category B-M-2 have been satisfied.
- Group #4 Contains two 6" globe valves and eight 28" globe valves. To date, one 28" valve has been VT-3 examined and found acceptable. The requirements of Section XI for Group #4 Category "B-M-2" have been satisfied.
- Group #5 Contains twenty Main Steam relief valves identified by valve location number.

 Grand Gulf has fifty valves that could be utilized at the twenty locations. To date, twenty-eight of the fifty valves have been VT-3 examined and found acceptable.

 The requirements of Section XI for Group #5 Category "B-M-2" have been satisfied.

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 63 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)
- Group #6 Contains four 24" gate valves. To date, one 24" valve has been VT-3 examined and found acceptable. The requirements of Section XI for Group #6, Category "B-M-2" have been satisfied.
- Group #7 Contains two 24" ball valves. To date, both valves have been VT-3 examined and were found acceptable. The requirements of Section XI for Group #7 Category B-M-2 have been satisfied.
- Group #8 Contains seven 6" gate valves, two 10" gate valves, two 12" gate valves, three 14" gate valves and two 20" gate valves. To date, one 12" gate valve and one 6" have been examined and found acceptable. The requirements of Sections XI for Group #8 Category B-M-2 have been satisfied.
- Group #9 Contains one 6" piston check valve. To date, the one valve in this group has been VI-3 examined and found acceptabe. The requirements of Sections XI for Group #9 Category B-M-2 have been satisfied.

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 64 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS, 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATION (Class I Valves) cont.

CLASS I VALVES (Summary)

Total number of credited visual exams performed this time frame	2
Total number of visual exams required for the Ten Year Interval	9
Total number of visual exams performed for the Ten Year Interval	8
Percentage of Ten Year Interval requirements completed	88.89

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 65 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATIONS (SYSTEM PRESSURE TESTING PERIOD 3)

The following is a overall summary of the results of Inservice Inspection (ISI) for System Pressure Testing conducted at Grand Gulf Nuclear Station, Unit 1 for the third period. 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, 1977 Edition, with the Addenda through and including Summary of 1979.

This abstract of examinations is itemized by the applicable system and zone numbers providing the number of Rejectable and Recordable indications for each zone.

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

The term "Recordable Indication" is defined as leakage reported from a pressure retaining components such as flanges, packing etc.

The "Recordable Indications" noted in this report were identified during this inspection time frame.

The term "Rejectable Indication" is defined as leakage reported from a pressure retaining components such as piping through wall leakage etc.

A VT-2 was performed in conjunction with each system pressure test. During the course of the inspections there were only recordable indications found. These indications were either evaluated as acceptable or a Maintenance Work Order (MWO) was issued for corrective action.

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 66 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

10. ABSTRACT OF EXAMINATIONS (SYSTEM PRESSURE TESTING period 3)

CODE CATEGORY B-P (Required after each re-fueling outage)

This category includes all Class 1 pressure retaining components.

SYSTEM NUMBER	SYSTEM DESCRIPTION	PRESSURE TEST ZONE	NUMBER OF RECORDABLE INDICATIONS	NUMBER OF REJECTABLE INDICATIONS
Various	Class 1	03-1-01-6	5	0

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 67 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

11. ABSTRACT OF CONDITIONS NOTED

- 11.1 The recordable indication was determined to be weld geometry.
- 11.2 The recordable indication was determined to be ID surface geometry.
- 11.3 The recordable indication was determined to be counterbore root geometry.
- 11.4 The recordable indication was determined to be root geometry.
- 11.5 The recordable indication was determined to be interface geometry.
- 11.6 The recordable indications was determined to be ID geometry and interface geometry.
- 11.7 The recordable indications were determined to be root and counterbore geometry.
- 11.8 The recordable indications was determined to be shear beam redirect, root geometry, and ID geometry.
- 11.9 The recordable indications was determined to be shear beam redirect and root geometry.
- 11.10 The recordable indication was determined to be a linear indication 3/16" in length on weld centerline located at interior end of weld.
- 11.11 The recordable indication was determined to be geometric in nature and was evaluated as lack-of-fusion along the weld prep.
- 11.12 The recordable indication(s) were determined to be geometric reflectors.
- 11.13 The base plate of the hanger has a 3/8" gap between it and the wall.
- 11.14 The recordable indication(s) were determined to be geometry (1) for each stud.

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 68 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)
- 11. ABSTRACT OF CONDITIONS NOTED (Continued)
- 11.15 A liquid penetrant examination was performed on weld after sandblasting. QAI 9.13 (Rev 6) restricts PT after sandblasting.

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 69 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)
- 12. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND ACTION TAKEN
- 12.1 MNCR 0148-95 documents a gap of approximately 3/8" between the base plate (drawing KAQ1G33G002R21) and a concrete wall. The disposition was to accept as-is. The condition was not considered serviced induced and no rework was required.
- 12.2 QDR 95-0397 documents that a Liquid Penetrant (PT) exam was performed after sandblasting of weld. The QDR was transmitted to NPE for acceptance of data collected as corrective action. Section XI credit will be taken for this weld but will be included in the "Open Item Section" of this report.

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 70 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995. JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

GENERAL REFERENCE NOTES

- a. Examination include the space above and below the reactor core that is made accessible for examination by removal of components during normal refueling outages.
- b. Code Case N-460 specifies that a reduction in examination coverage on any class 1 or 2 weld may be acceptable provided that the reduction in coverage for that weld is less than 10%
- c. Code Case N-461 specifies that any calibration block may be used that is within \pm 25% of the pipe wall thickness.
- d. Augmented exam in accordance with IE Bulletin 80-13.
- e. Augmented exam in accordance with NUREG-0619.
- f. Volumetric examination per Code Case N-307-1 may be used.
- g. This component was scheduled and examined (VT-4) in RFO5 but not listed in NIS-1-00009.
- h. The listed studs were removed during RFO7. A surface exam is required only if the studs are removed (once each interval).

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 71 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

SUMMARY OF OPEN ITEMS

This section lists items that were identified during RFO7. The resolution to these open items will be reported in NIS-1-00012.

ITEM NO.	CODE	ID NUMBER	TYPE OF EXAM	DESCRIPTION/EXAM NOT COMPLETED
1	C-C	Q1E12C002B-SB12	SURFACE	PT exam performed after sand- blasting (cleaning) weld. Unable to perform MT exam.

This section lists items that were identified during the reporting period for NIS-1-00010 but were not resolved before issuing NIS-1-00011. The resolution to these items will be reported in NIS-1-00012.

ITEM NO.	CODE CATEGORY	ID NUMBER	TYPE OF EXAM	DESCRIPTION/EXAM NOT COMPLETED
1	В-Ј	B33G3-A1-F	SURFACE	Entire examination volume cannot be examined- SCR 93-0014 (RFO5 Item)
2	В-Ј	B33G3-A1-G	SURFACE	Entire examination volume cannot be examined- SCR 93-0014 (RF05 Item)
3	В-Ј	В33G3-A1-H	SURFACE	Entire examination volume cannot be examined- SCR 93-0014 (RF05 Item)
4	В-Ј	B33G3-A1-J	SURFACE	Entire examination volume cannot be examined- SCR 93-0014 (RFO5 Item)

FORM NIS-11 SUPPLEMENTAL SHEET PAGE 72 OF 72

- 1. OWNER: ENTERGY OPERATIONS, INC., ECHELON ONE, P.O. BOX 31995, JACKSON, MS. 39286-1995
- 2. PLANT: GRAND GULF NUCLEAR STATION, P.O. BOX 756, PORT GIBSON, MS. 39150
- 3. PLANT UNIT: ONE 4. OWNER CERTIFICATE OF AUTHORIZATION (IF APPLICABLE) NA
- 5. COMMERCIAL SERVICE DATE: 07/01/85 6. NATIONAL BOARD NUMBER FOR UNIT: 13 (RPV ONLY)

SUMMARY OF OPEN ITEMS (Continued)

ITEM NO.	CODE	ID NUMBER	TYPE OF EXAM	DESCRIPTION/EXAM NOT COMPLETED
5	B-J	B33G4-B1-H	SURFACE	Entire examination volume cannot be examined- SCR 93-0014 (RFO5 Item)
6	B-J	B33G4-B1-J	SURFACE	Entire examination volume cannot be examined- SCR 93-0014 (RFO5 Item)
7	В-Ј	B33G4-B1-K	SURFACE	Entire examination volume cannot be examined- SCR 93-0014 (RFO5 Item)
8	B-J	B33G4-B1-L	SURFACE	Entire examination volume cannot be examined- SCR 93-0014 (RFO5 Item)
9	B-J	E32G119-W-32	SURFACE	Entire examination volume cannot be examined- SCR 93-0014
10	В-Ј	E51G001W39	VOLUMETRIC	Entire examination volume cannot be examined- SCR 93-0014

INSERVICE INSPECTION SUMMARY REPORT

FOR

GRAND GULF NUCLEAR STATION

SECTION II

CLASS I, II, AND III CODE CATEGORY SUMMARY

CLASS 1, 2, AND 3 CODE CATEGORY SUMMARY

Cat	Type of Exam	Total Ex. Per 10 yr. Interval	Total Exams Req'ed 1st Per. / % of Total	Total Exams Req'ed 2nd Per. / % of Total	Total Exams Req'ed 3nd Per. / % of Total	No. of Items Examined This Report Period	# of Exams/ % of 3rd. Per. Require. Perf.	# of Exams/ % of 10 YR. Interval Requirement
B-A	VOLU.	45	16 / 35.6	13 / 28.9	16 / 35.6	0	13 / 81.2	42 / 93.3
B-A	SURF.	2	0 / 0.0	1 / 50.0	1 / 50.0	0	1 / 100.0	2 / 100.0
B-D	VOLU.	70	26 / 37.1	22 / 31.4	22 / 31.4	0	22 / 100.0	70 / 100.0
B-E	VISU.	6	3 / 50.0	2 / 33.3	1 / 16.7	0	0 / 0.0	5 / 83.3
B-F	VOLU.	40	12 / 30.0	16 / 40.0	12 / 30.0	2	12 / 100.0	40 / 100.0
B-F	SURF.	40	12 / 30.0	16 / 40.0	12 / 30.0	0	12 / 100.0	40 / 100.0
B-G-1	VOLU.	15	4 / 26.7	6 / 40.0	5 / 33.3	4	5 / 100.0	15 / 100.0
B-G-1	SURF.	9	2 / 22.2	3 / 33.3	4 / 55.5	1	1 / 16.7	6 / 66.7
B-G-1	VISU.	12	3 / 25.0	5 / 41.7	4 / 33.3	0	1 / 20.0	9 / 69.2
B-G-2	VISU.	19	5 / 26.3	9 / 47.4	5 / 26.3	0	4 / 80.0	18 / 94.7

CLASS 1, 2, AND 3 CODE CATEGORY SUMMARY

Cat	Type of Exam	Total Ex. Per 10 yr. Interval	Total Exams Req'ed 1st Per. / % of Total	Total Exams Req'ed 2nd Per. / % of Total	Total Exams Req'ed 3nd Per. / % of Total	No. of Items Examined This Report Period	# of Exams/ % of 3rd. Per. Require. Perf.	# of Exams/ % of 10 YR. Interval Requirement
В-Н	SURF.	1	0 / 0.0	0 / 0.0	1 / 100	0	1 / 100.0	1 / 100.0
B-J	VOLU.	359	95 / 18.1	120 / 33.4	144 / 40.1	46	144 / 100.0	359 / 100.0
B-J	SURF.	524	112 / 21.4	184 / 35.1	228 / 43.5	50	228 / 100.0	524 / 100.0
B-K-1	SURF.	60	14 / 23.3	21 / 35.0	26 / 43.3	10	26 / 100.0	60 / 100.0
B-L-2	VISU.	1	0 / 0.0	1 / 100.0	0 / 0.0	N/A	N/A	1 / 100.0
B-M-2	VISU.	9	5 / 55.6	0 / 0.0	4 / 44.4	2	3 / 75.0	8 / 88.9
B-N-1	VISU.	3	1 / 33.3	1 / 33.3	1 / 33.3	0	1 / 100.0	3 / 100.0
B-N-2	VISU.	1	0 / 0.0	0 / 0.0	1 / 100.0	0	1 / 100.0	1 / 100.0
C-A	VOLU.	2	1 / 50.0	0 / 0.0	1 / 50.0	1	1 / 100.0	2 / 100.0
С-В	VOLU.	4	0 / 0.0	0 / 0.0	4 / 100.0	4	4 / 100.0	4 / 100.0

TABLE 1
CLASS 1, 2, AND 3 CODE CATEGORY SUMMARY

Cat	Type of Exam	Total Ex. Per 10 yr. Interval	Total Exams Req'ed 1st Per. / % of Total	Total Exams Req'ed 2nd Per. / % of Total	Total Exams Req'ed 3nd Per. / % of Total	No. of Items Examined This Report Period	# of Exams/ % of 3rd. Per. Require. Perf.	# of Exams/ % of 10 YR. Interval Requirement
C-B	SURF.	2	0 / 0.0	0 / 0.0	2 / 100.0	2	2 / 100.0	2 / 100.0
c-c	SURF.	35	12 / 34.3	10 / 26.6	13 / 37.1	3	13 / 100.0	35 / 100.0
C-D	VOLU.	1	0 / 0.0	0 / 0.0	1 / 100.0	1	1 / 100.0	1 / 100.0
C-F	VOLU.	226	61 / 27.0	74 / 32.7	91 / 40.3	26	90 / 99.0	225 / 99.6
C-F	SURF.	291	79 / 27.1	96 / 33.0	116 / 39.9	34	115 / 99.1	290 / 99.7
C-G	SURF.	42	15 / 35.7	9 / 21.4	18 / 42.9	6	18 / 100.0	42 / 100.0
D-A	VISU	8	0 / 00.0	0 / 00.0	8 / 100.0	8	8 / 100.0	8 / 100.0
D-B	VISU.	20	5 / 25.0	2 / 10.0	13 / 65.0	3	13 / 100.0	20 / 100.0

TABLE 1
CLASS 1, 2, AND 3 CODE CATEGORY SUMMARY

Cat	Type of Exam	Total Ex. Per 16 yr. Interval	Total Exams Req'ed 1st Per / % of Total	Total Exams Req'ed 2nd Per. / % of Total	Total Sxams Reg'ed 3nd Per / % of Total	No. of Items Examined This Report Period	# of Exams/ % of 3rd. Per. Require. Perf.	# of Exams/ % of 10 YR. Interval Requirement
D-C	VISU.	31	9 / 29.0	12 / 38.7	10 / 32.3	10	10 / 100.0	31 / 100.0
D-A, D-B	VISU.	86	24 / 30.9	27 / 31.4	35 / 40.1	11	35 / 100.0	86 / 100.0
D-A, D-B, & D-C	Visu.	47	9 / 19.1	18 / 38.3	20 / 42.6	2	20 / 100.04	47 / 100.0
F-A	VISU	44	15 / 34.1	12 / 27.3	17 / 38.7	3	17 / 100.0	44 / 100.0
F-B	VISU.	562	109 / 19.4	112 / 19.9	341 / 61.1	13	341 / 100.0	562 / 100.0
F-C	VISU.	177	46 / 26.0	57 / 32.2	74 / 41.8	11	74 / 100.0	177 / 100.0
FA, FB	VISU.	18	4 / 22.2	6 / 33.3	8 / 44.4	8	8 / 100.0	18 / 100.0
FA, FC	VISU	9	0/0	9 / 100	0 / 00	0	N/A	9 / 100.0
FA, FB, FC	VISU	4	0 / 00.0	0 / 00.0	4 / 100.0	1	4 / 100.0	4 / 100.0

CLASS 1, 2, AND 3 CODE CATEGORY SUMMARY

Cat	Type of Exam	Total Ex. Per 10 yr. Interval	Total Exams Req'cd 1st Fat. / % of Total	Total Exams Req'ed 2nd Per. / % of Total	Total Exams Req'ed 3nd Per. / % of Total	No. of Items Examined This Report Period	# of Exams/ % of 3rd. Per. Require. Perf.	# of Exams/ % of 10 YR. Interval Requirement
NO BRK ZONE	VOL	24	13 / 62.5	9 / 37.5	0 / 0.0	0	N/A	24 / 100.0
NO BRK ZONE	SURF	8	0/0.0	4 / 50.0	4 / 50.0	4	4 / 100.0	8 / 100.0
I.E. 80-07	VOLU	6	2 / 32.3	2 / 33.3	2 / 33.3	0	2 / 100.0	6 / 100.0
B-N-1 I.E. 80-13	VIS	6	2 / 33.3	2 / 33.3	2 / 33.3	0	2 / 100.0	6 / 100.0
B-D 0619	VOLU	24	6 / 33.3	6 / 33.3	12 / 33.3	6	12 / 100.0	24 / 100.0
B-D 0619	SURF	18	6 / 33.3	6 / 33.3	6 / 33.3	0	6 / 100.0	18 / 100.0
B-F 0619	VOLU.	24	6 / 33.3	6 / 33.3	12 / 33.3	6	12 / 100.0	24 / 100.0
B-F 0619	SURF.	18	6 / 33.3	6 / 33.3	6 / 33.3	0	6 / 100.0	18 / 100.0
C-F I.E. 79-17	SURF.	3	3 / 106.0	0 / 0.0	0 / 0.0	N/A	N/A	3 / 100.0
C-F I.E. 79-17	VISU.	3	3 / 100.0	0 / 0.0	0 / 0.0	N/A	N/A	3 / 100.0

CLASS 1, 2, AND 3 CODE CATEGORY SUMMARY

TO 'AL SUMMARY OF CODE CATEGORY EXAMINATIONS (NUGEG, I.E. BULLETIN, AND NO BREAK ZONE EXAMS NOT INCLUDED)

	Type of Exam	Total Ex. Per 10 yr. Interval	Total Exams Req'ed 1st Per. / % of Total	Total Exams Req'ed 2nd Per. / % of Total	Total Exams Req'ed 3nd Per. / % of Total	No. of Items Examined This Report Period	# of Exams/ % of 3rd. Per. Require. Perf.	# of Exams/ % of 10 YR. Interval Requirement
SUM.	VOLU.	762	215 , 28.2	251 / 32.9	296 / 38.9	84	291 / 99.3	757 / 99.3
SUM.	SURF.	100	246 / 24.5	340 / 33.8	420 / 41.7	102	416 / 99.1	1002 / 99.6
SUM.	VISU.	1058	238 / 22.5	272 / 25.7	548 / 51.8	76	541 / 99.7	1051 / 99.3
TOTAL SUM.	ALL	2826	699 / 24.7	863 / 30.5	1264/ 44.7	262	1248 / 98.7	2810 / 99.4

INSERVICE INSPECTION SUMMARY REPORT

FOR

GRAND GULF NUCLEAR STATION

SECTION III

ISOMETRICS

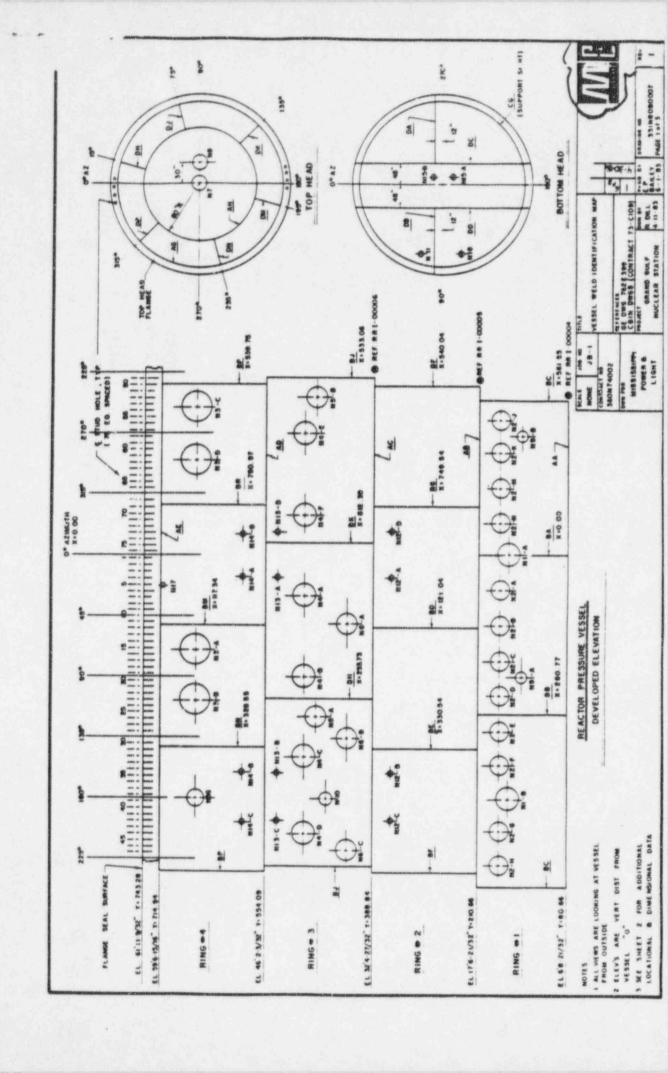
SYSTEM	DRAWING NUMBER
B13 REACTOR PRESSURE VESSEL	351N80B00007
	351N83B00009
	351N85B00010
	RV-11-1
	RV-11-2
	133D9489 (GE Drw.)
B21 FEEDWATER	FW-8-4
	FW-11-4
B21 MAINSTEAM	MS-8-3
	MS-11-9
	MS-11-12
	MS-11-13
B21 MAINSTEAM RELIEF VALVES	RV-11-1
	RV-11-5
	RV-11-6
	RV-11-8
	RV-11-11
	RV-11-15
	RV-11-16
B33 REACTOR RECIRCULATION	RR-11-2
	RR-11-3
	RR-11-9
	RR-11-19
C41 STANDBY LIQUID CONTROL	LC-11-8
	LC-11-11
	LC-11-13

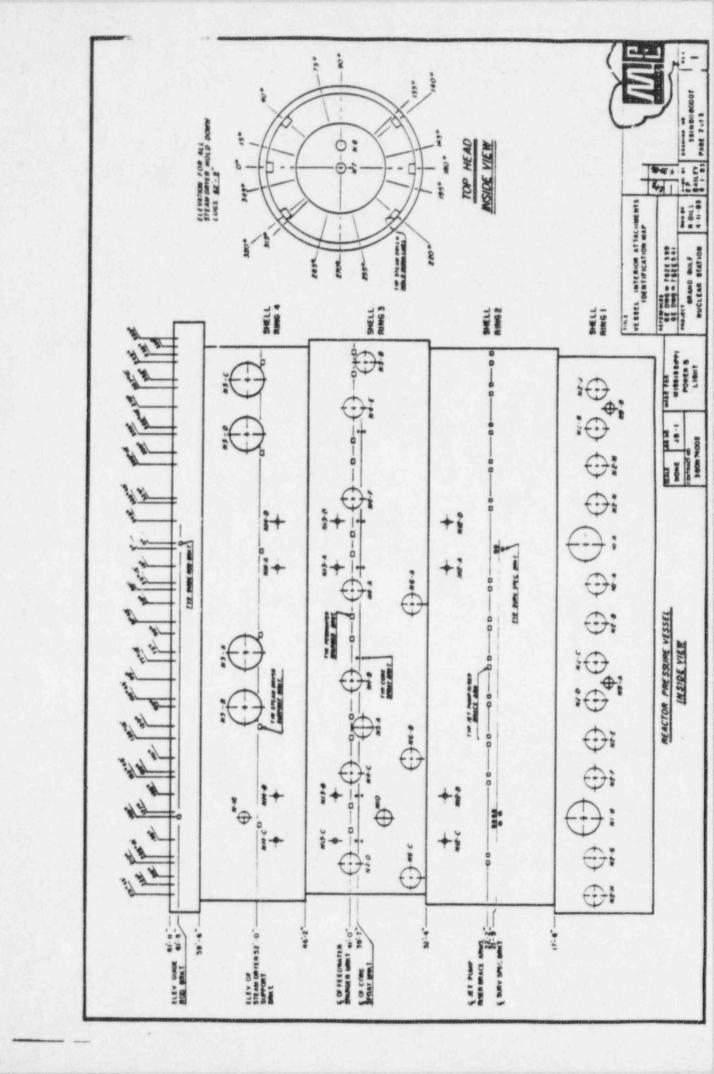
ISOMETRICS (CONTINUED)

SYSTEM	DRAWING NUMBER
E12 RESIDUAL HEAT REMOVAL	RH-7-19
	RH-8-2
	RH-8-3
	RH-8-4
	RH-8-8
	RH-8-9
	RH-8-10
	RH-8-11
	RH-8-12
	RH-8-15
	RH-8-17
	RH-8-20
	RH-8-27
	RH-8-30
	RH-8-31
	RH-8-32
	RH-8-38
	RH-11-13
	RH-11-16
	RH-11-18
	RH-11-19
E21 LOW PRESSURE CORE SPRAY	LP-9-3
	LP-11-2
ESI REACTOR CORE ISOLATION COOLING	RI-8-1
	RI-8-9
	RI-8-10
	RI-11-4
	RI-11-5
	RI-11-7
G33 REACTOR WATER CLEAN-UP	CU-8-2
	CU-11-2
	CU-11-3
	CU-11-11
	CU-11-13
G41 FUEL POOP COOLING &CLEAN-UP	FC-9-12
	FC-9-23

ISOMETRICS (CONTINUED)

SYSTEM	DRAWING NUMBER
P41 STANDBY SERVICE WATER	WS-12-3 WS-12-4 WS-YD-9 WS-YD-11
P75 STANDBY DIESEL GENERATOR	SDG-12-11
P81 STANDBY DIESEL GENERATOR	HDG-12-1





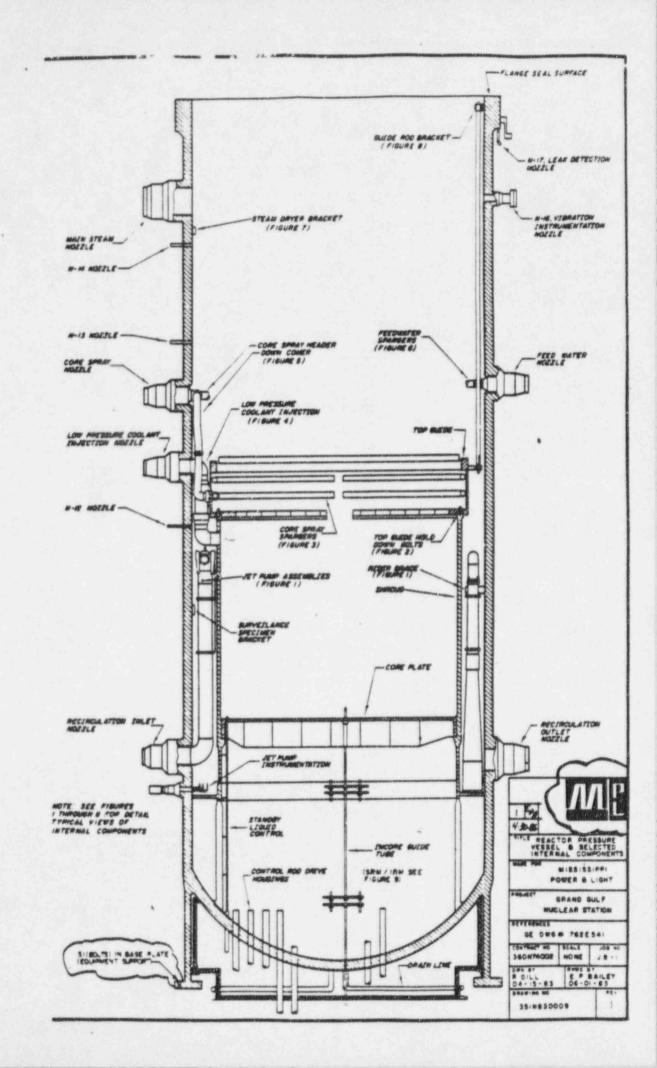
WELDS.	ELEVATION.	8 . 8 % 20 .	17 . 6 21/20-	32 4 8 924	1.2	30 . 6 Vm .
CIRCUMFERENTIAL	Y COOMBHIATE	25 08	210.66	388.84	954 08	714 94
CIRC	IDENT	AA	84	anc.	40	AE

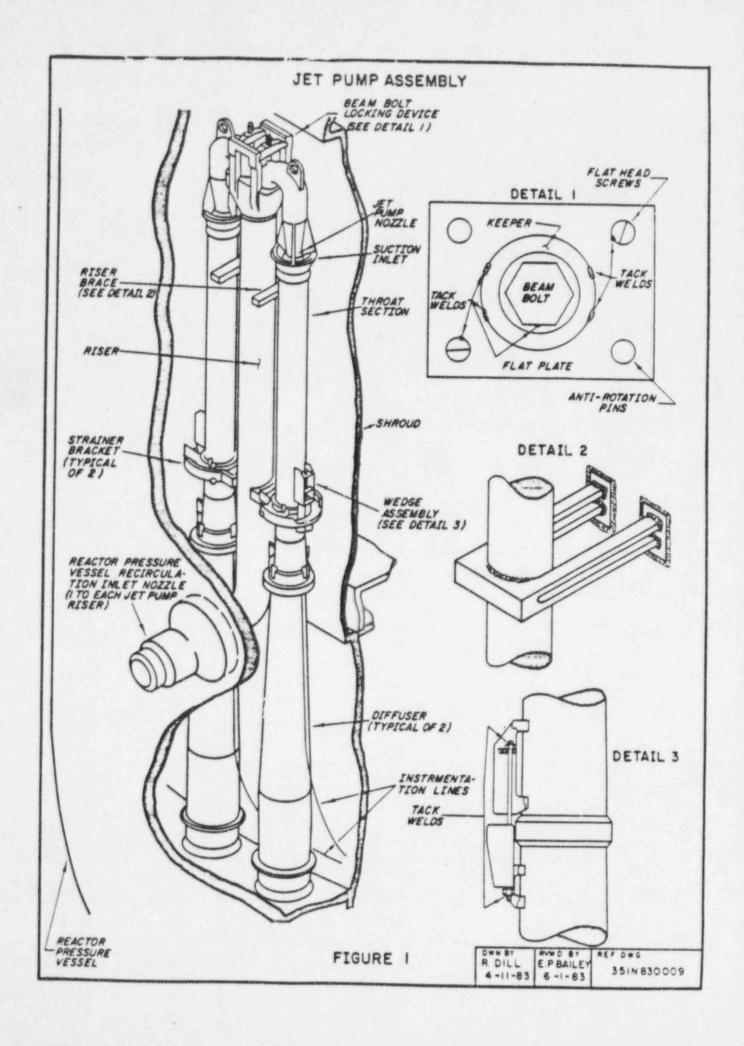
SHELL	_	CIMEDINE REPORT	ž	Y.
B: NO			942 32	35
4			838	8
			2	8
SE.		-	998	20

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a kname	116	285	100 001	(22 672)	(196 67)	121 04	330 84	840.04	749 54	252 73	853.06	S12 39	(# ¥:1)	1957 691	(889 36)	1000 0001
x C008	Piles Br		000	280.77	961 99	(12: 86)	(335 84)	(948 86)	(755 409	1	-	-	1	!	1	-
	IDENT.		6.8	84	36	8	*	96	**		26	8K	848	**	48	98

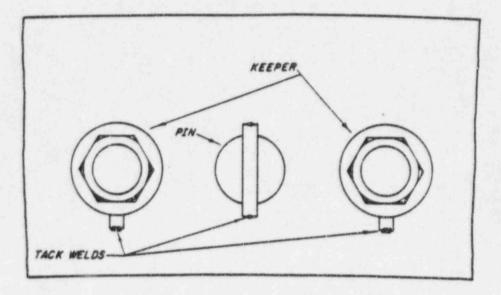
1.00047104	INTERIOR	INTERIOR ATTACHMENT	T WELDS
LOCATEM	BEALDE	ELE VATION	
R 1960 + 2	BURN SPEC	.6;12	
8 1886 e. 2	AET PLASS BISER BRACE ARM	25,22	26, 32, 77, 403, 128, 154, 206, 234,
RIMSe 5	CORE SPRAY	39.7	15° 75° 46° 105° 245° 545°
R #555# 3	FEEDWATER SPANSER	*0-:19	836* FF 679 629 1129 1270 1909 1889 2839 2479 2890* 3405*
9 = 865g	STEAM DEFER	.0:28	5-66-120-188-2-0-300-
BMETT	64505 700	.818	
10P	STEAN DRIVER HOLD DOWNER	.6-,28	0. 40. 140. 180. 220. 320.

	FUNCTION	ACTO THE ACTOR	THE WORLD CO.	NAME OF TAXABLE	AET PUMP INSTR	AET PUMP INSTR	CRD HVD SVS	9810	1年間では1年1月1日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日	MEN 5 本 7 金 予報 1 銀 7 利 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AMETRUME MEATION	1 DE ST DRESBEE INT AT DOM	FREST RUSSE OF TAS ION	IN ST RUBE NTATION	1的87 杂记器 医死了点下30%	INSTRUMENTATION	THE STRUME BY TATISTIC	新名子寄记给任赖 TAT1088	HHST PLINGE IN TAT KINE	LINGST RIJERS IN T. A.T. BORN	Orth A ste	DR Acts	INATA - VIB	LEAK DETECTION	SIFFE MENTAL PRESS					THE REAL PROPERTY.	590 A	3-C108
	CUTOUT BIA	808	000	808	011	110	98 98	3.8	3.8	8.8	3.5	8.8	200	3.8	80 80	3.5	8.6	3.8	3.6	2.5	8/8	M/M	23.94	3.2	3.5	4	No mile	-		WESTER BELD IDEALIFICATION MAP		C.E.IR DWG 762 5 500 B.O. O -104
	AZISSOTIE		18	1	2	201	2098	204	185	2004		346	.61	1686	1880	348.	081	16.66	-961	3.696	22.50	3150	1800	10,63	-601		E RETURN	31414	arment.	T.		5.8 0 W
	EL E VALTNESS	100 160	900 MG	07,00	0.41	0.61	87-4 Mg	801 HB	9-06	30.06	-			9-54		_		H	-	11-69	801.48	_	_	3 F 11 %	807 NB	MAT & BACKBANE BECKERALE MET.	MOI A PRESENT	BC4. 2 850 856	- 86 38-1	CONTRACT NO	360% 7 4002	10418 S16 S165
200	HOCKE	200	800	-	4	2 4	810	=======================================	Mett-A	年間-第	3- 31 M	MR-9	21.5-A	B 639	1813-C	9-618	MIS-A	Bic &	3-948	B-4-8	B18-R	B-219	914	7 mm m	999	4 1017		A PARTY OF THE PAR		America Colorina		
	PURIC TICH	MECHACULATION OUTLEY	RECINCULATION OUTLET	1.		1	-1		1		RECIRCULATION INLET	RECIRCULATION INLET	RECINCULATION INLET	RECINCULATION INLEY	BECIRCULATION MILET	SECHECULATION MLET			STEAM CUTLET	STEAM OUTLET	FEEDWATER	FEEDWATER	PEEDWATER	FEEDWATER	FEE DWATER	П	LES COME SPRAY	CORE SPRAY	RHR/LPC:	BHR/LPCI	RNB/LPCI	
	CUTOUT DIA	90.90	90.00	88.37	84 87	20.00	20.04	35.57	3937	33.37	28.82	35 37	99.37	25 25	16 66	35.37	98 97	82 87	82.67	38 87	38 66	30 12	35 16	39.05	39.15	25.18	35.37	88.37	35.37	89.37	36.97	
-	V COOMD	172 30	172 30	179 36	176 80	150 20	2	06 84	28.80	06 64	179.30	176 30	7.0 30	06 6 7	00 00 1	02 6/1	00 000	909 900	8 8 00	00 849	483 25	663 23	982 580	403 28	983.83	92526	479.25	67.9.25	419.00	90618	419.00	
	N COOM6	000	42120	81.10	121 16	ON ON2	200	000000	200 10	928 10	08 89	345	06 808	00 000	20 121	08 084	165 00	232 30	09 146	678.90	08 80	908 90	349 80	488 80	08 88 90	766 20	876 36	568 70	90.60	3.78 20	08 409	
-	A ZIMEUTIN	0	.081	26.15	31648	. Di od.4	100000	2.000	21 22	135 95	21 602	60.62	61 162	C 202	200	333.40	1	.00	200	200	96	208	130	210-2	2 10	330	1200	2400	3.60	1410	9612	
	ELE WATRON	. 9	14 4 725	14 11 746	16 41 7/16	16.11 OLE	1	2	2	B		2 2 2	2			710	0	0 0	0-00	34-0	4						30-11/4	30 11/10	34 . 11		34 11	
-	DENT	W: P	a R	M2-A	8-21	MEC	45.60	200			0 20			10. W		T	Ţ,	868	T	T	1	T	1	1	3 90	†	1	1	1		3.9	





TOP GUIDE HOLD DOWN BOLTS



TYPICAL VIEW

FIGURE 2

R DILL EPBAILEY 351830009

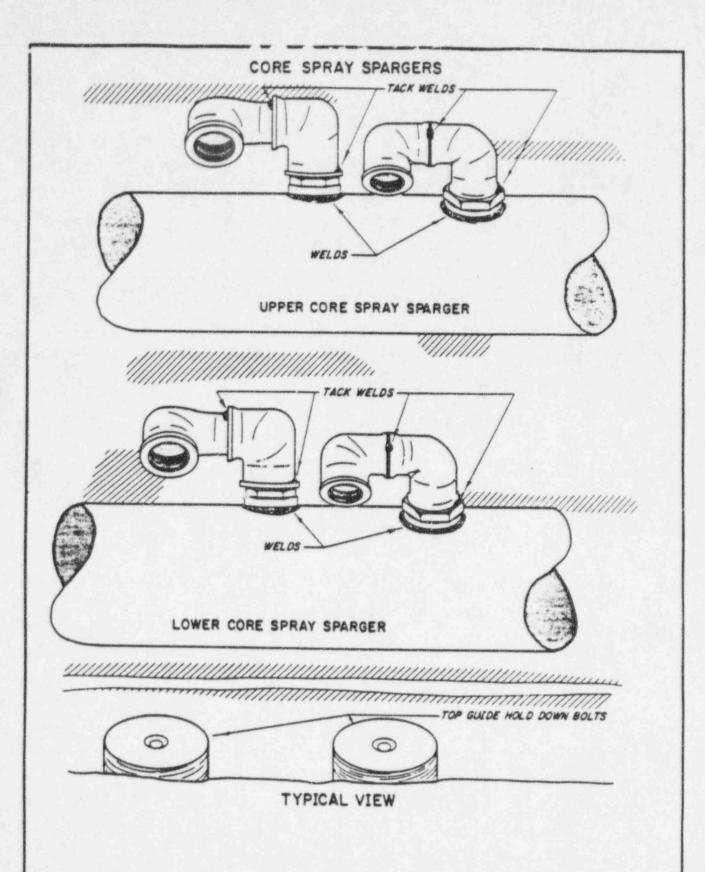


FIGURE 3

OWN 87 | MY NO 87 | REF DWG | R DILL | E PBALEY | 351N830009

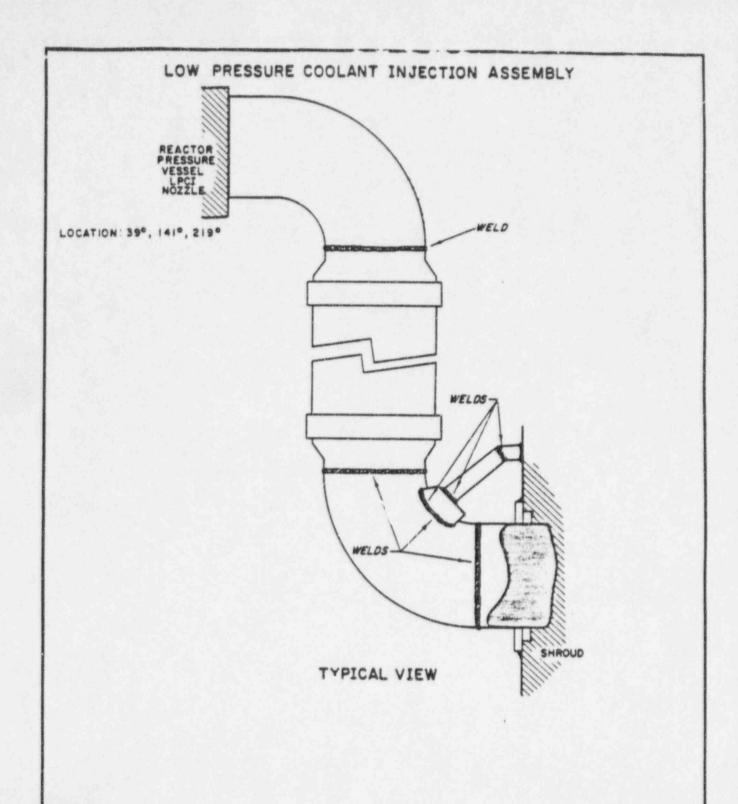


FIGURE 4

DWM BY	RV WD BY	REF DWG
R DILL 4-11-83	EPBALEY	351 NB3 0009

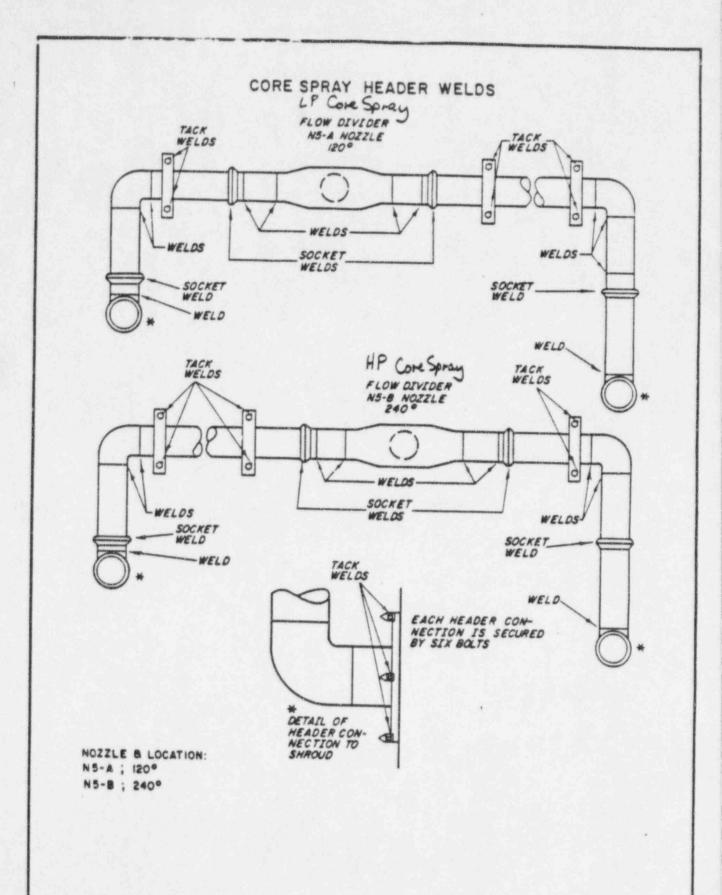
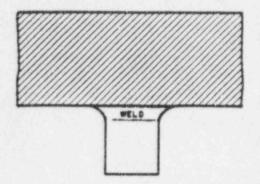


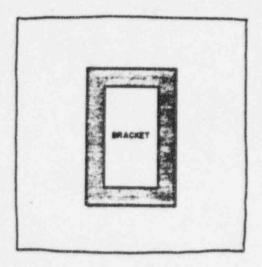
FIGURE 5

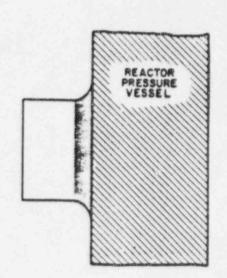
R DILL E.PBAILEY 351N 830009

FEED WATER SPARGER REACTOR PRESSURE VESSEL SPARGER FEED WATER TYPICAL VIEW BRACKET REACTOR PRESSURE VESSEL WELD WELD REACTOR PRESSURE VESSEL LOCATION: 30°; 90°; 150° 210°; 270°; 530° ---RYWD BY ROILL EPBAILEY FIGURE 6 351 N830009 4-11-83 6-1-83



STEAM DRYER SUPPORT BRACKET (TYPICAL VIEW)

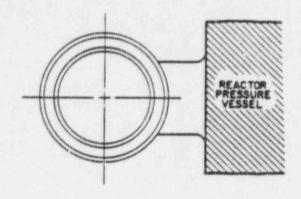


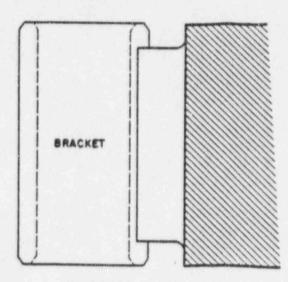


LOCATION: 5°; 60°; 120° 185°; 240°; 300°

	# V W D B Y	REF DWG
R DILL 4-11-83	6-1-83	351NB30009

GUIDE ROD SUPPORT BRACKET



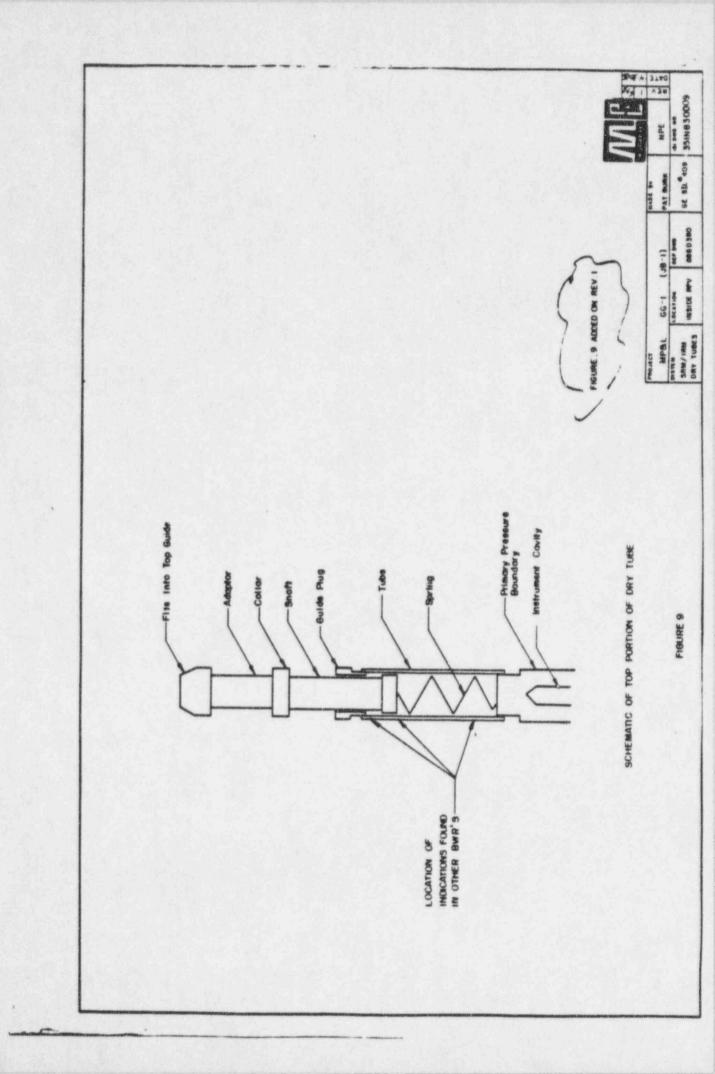


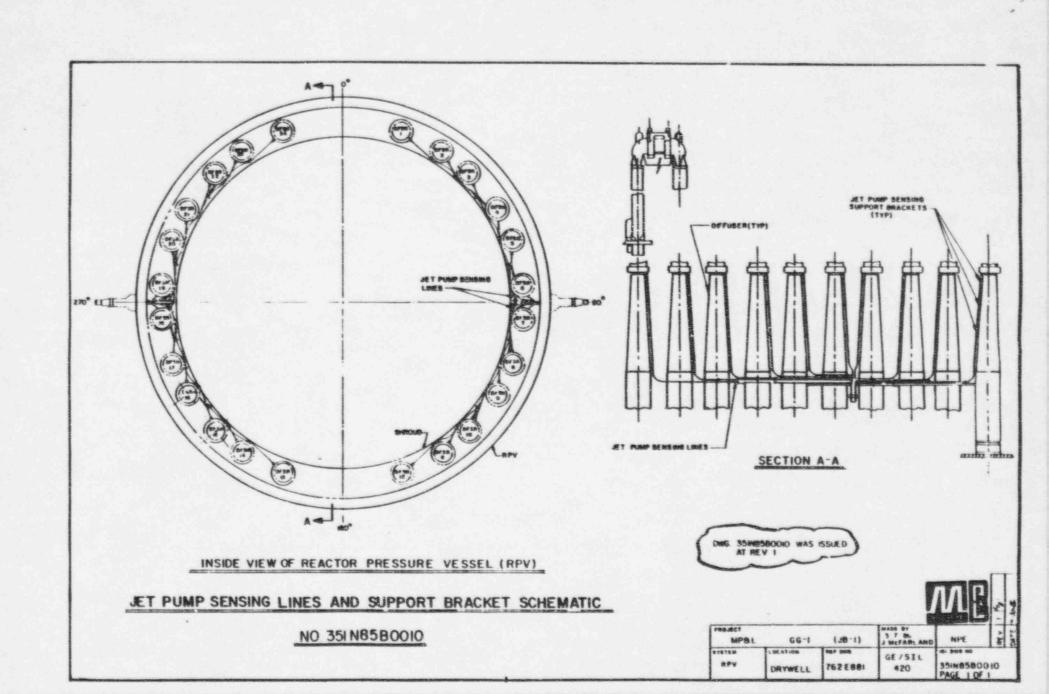
TYPICAL VIEW

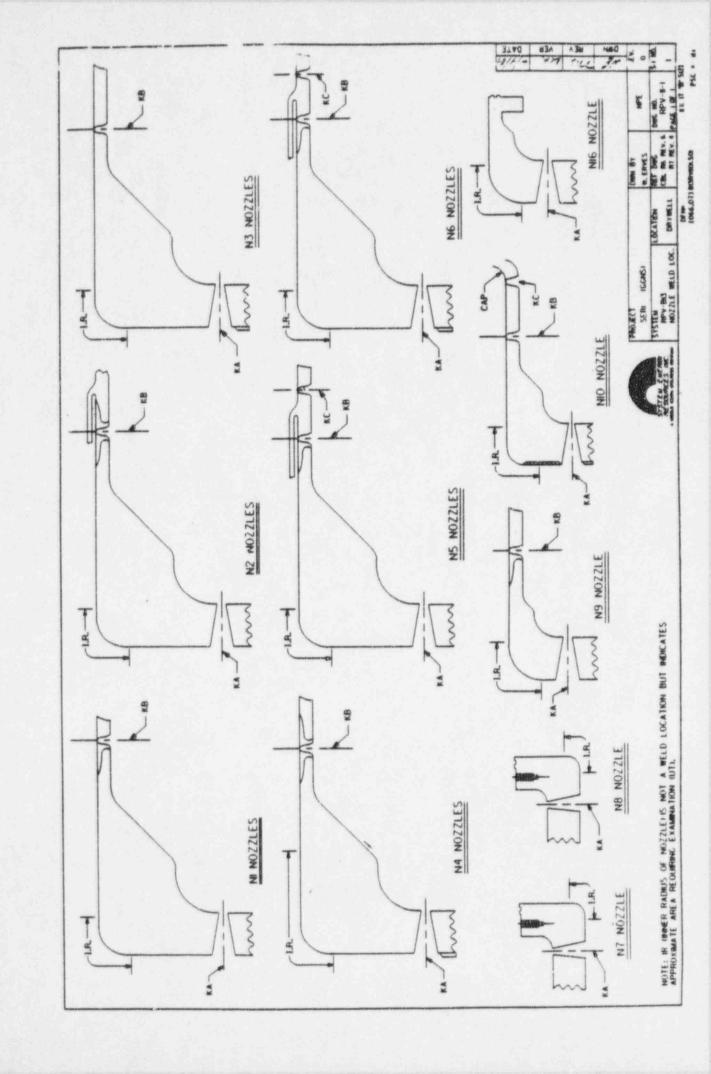
LOCATION: 00; 1800

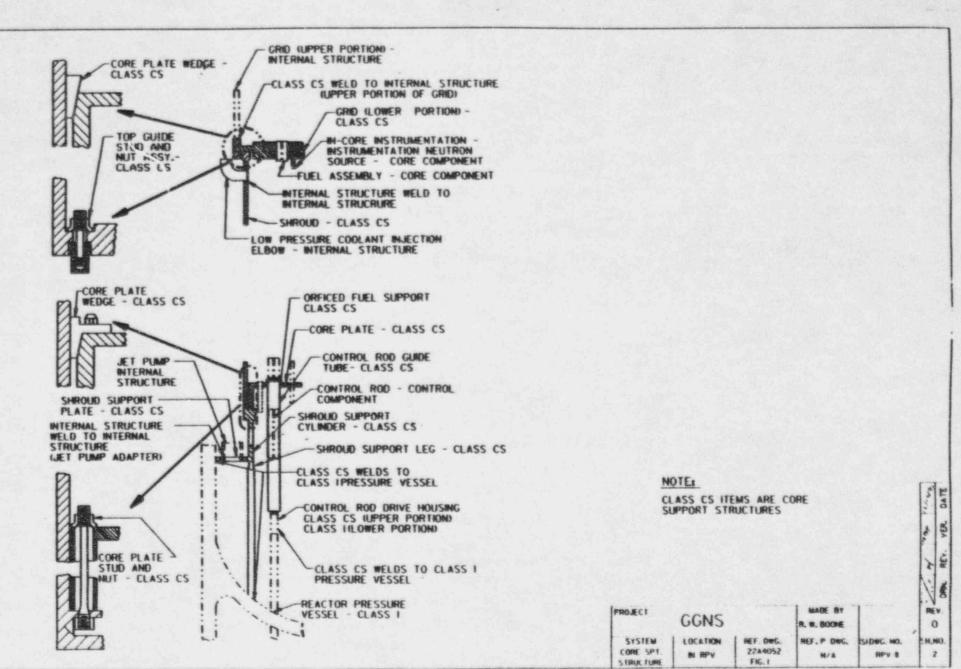
FIGURE 8

R DILL EPBAILEY 351830009

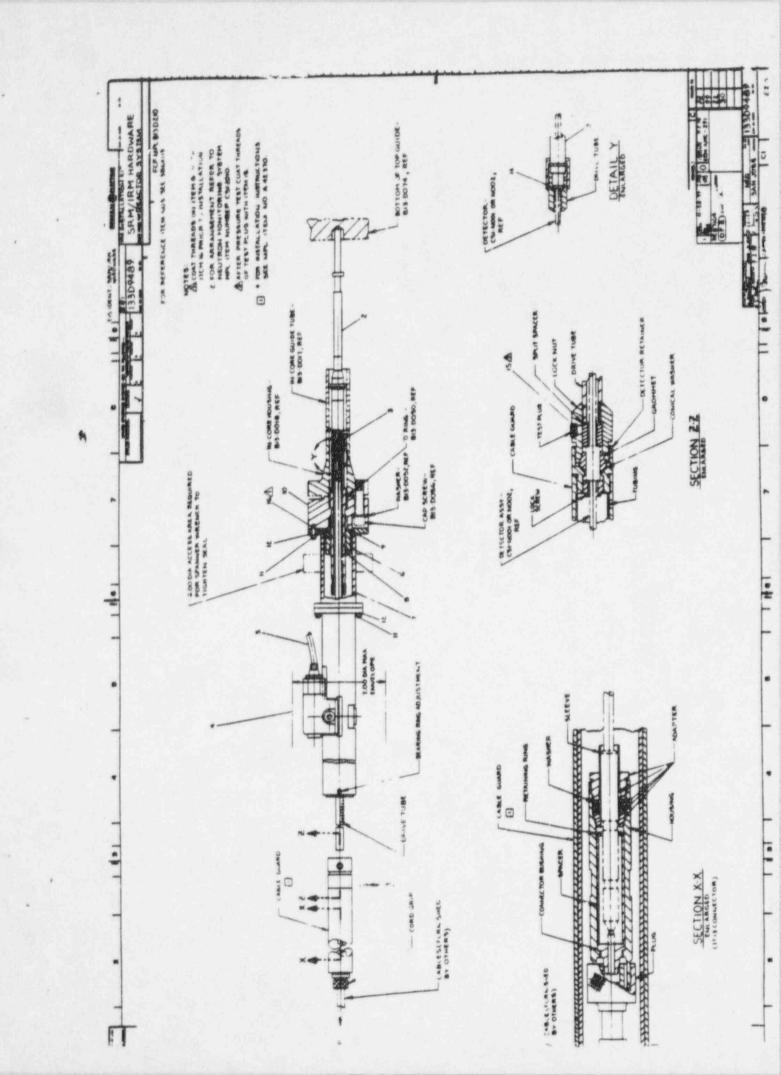


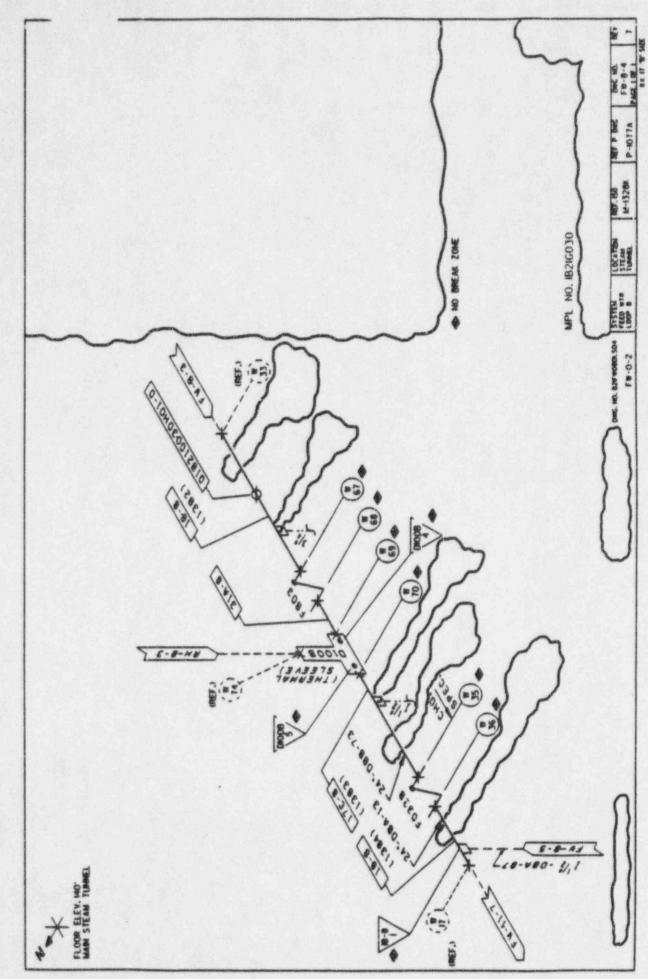




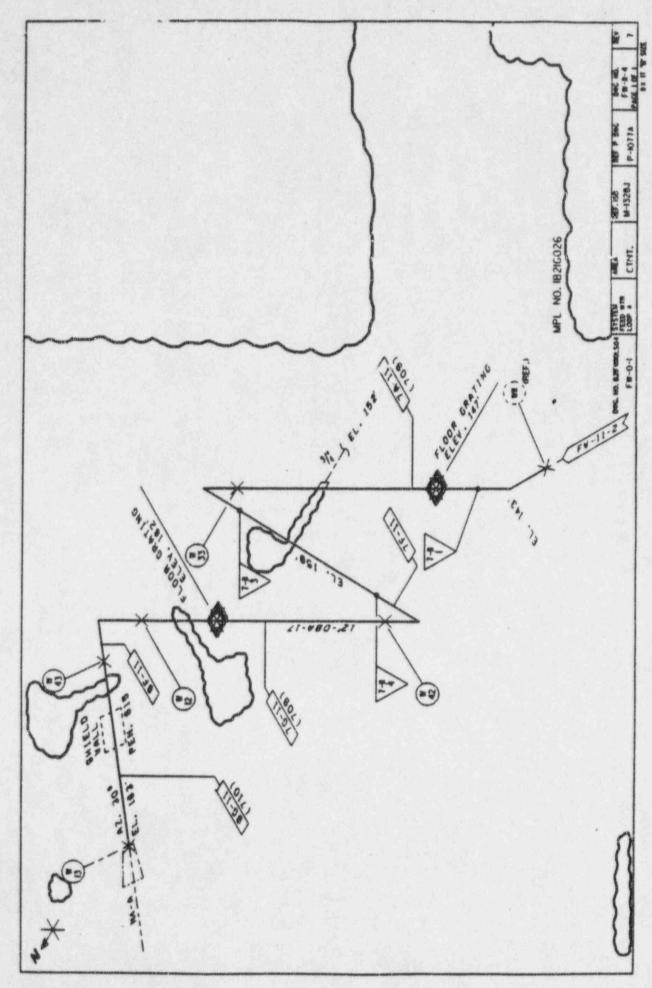


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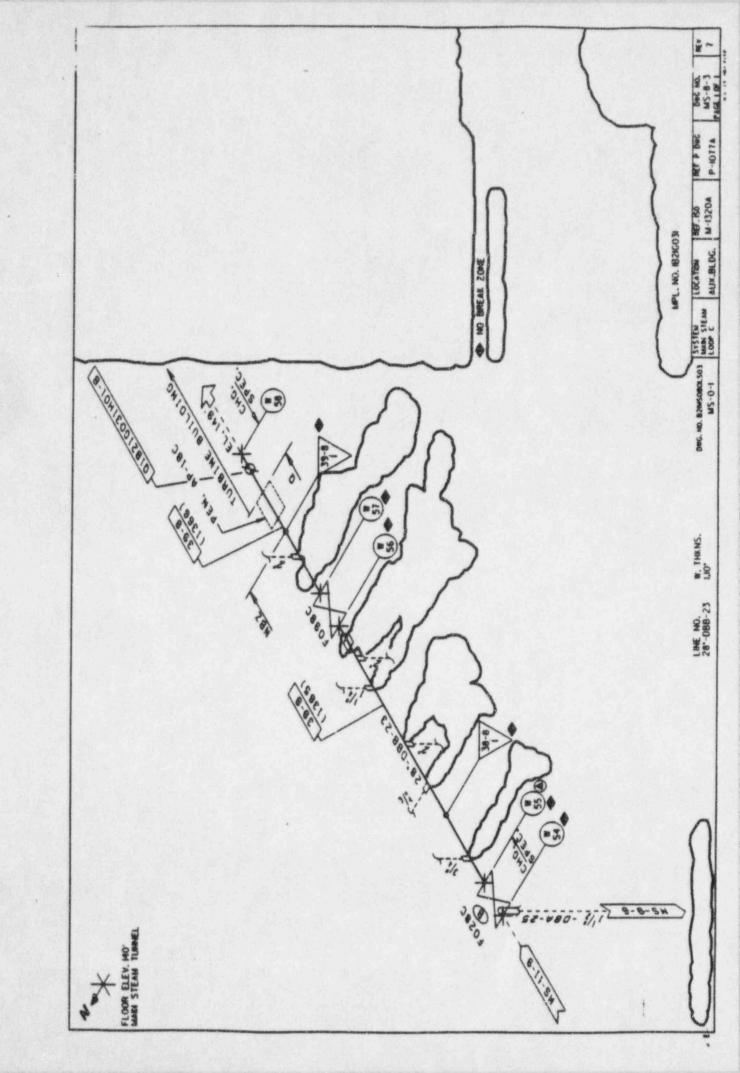


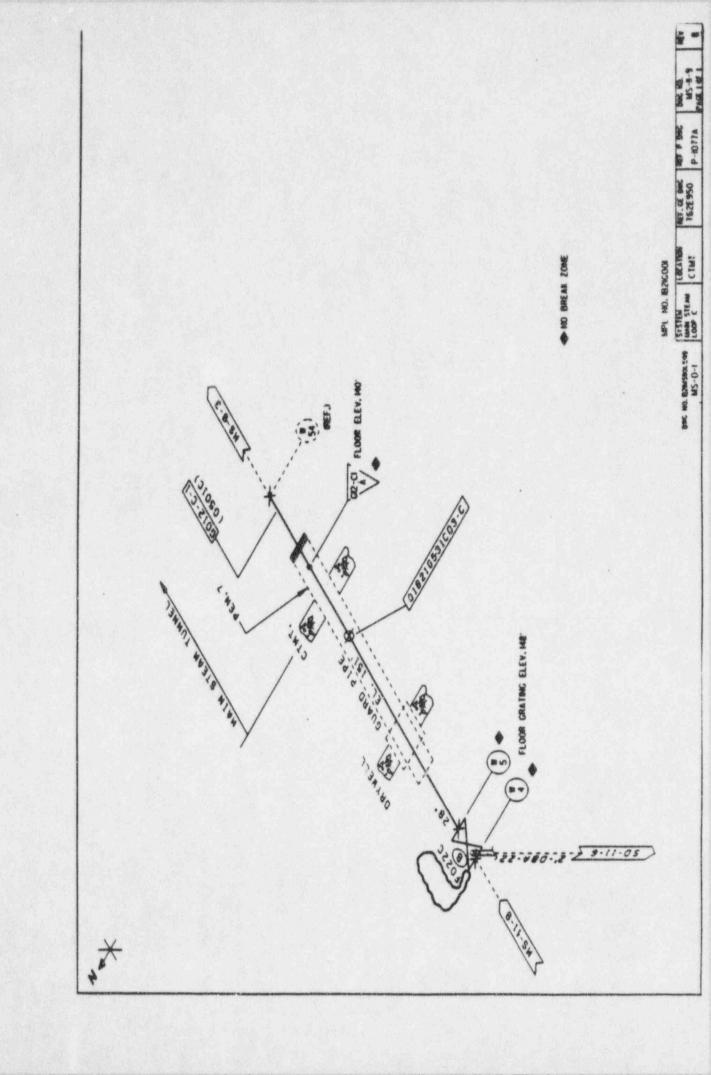


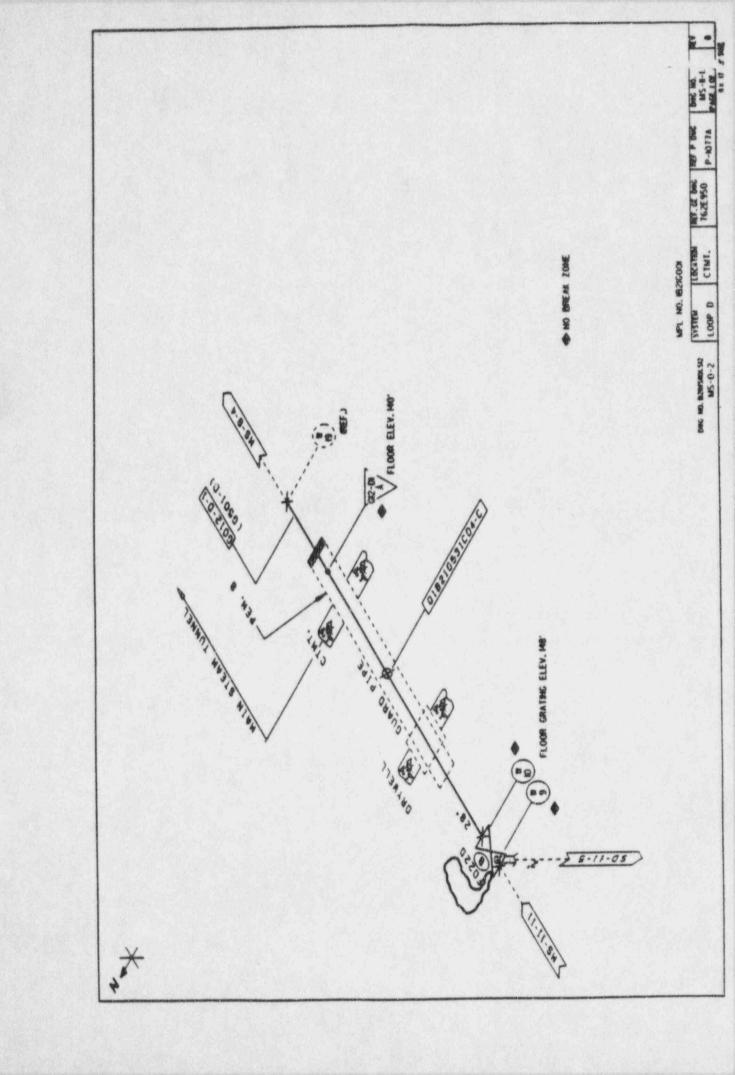
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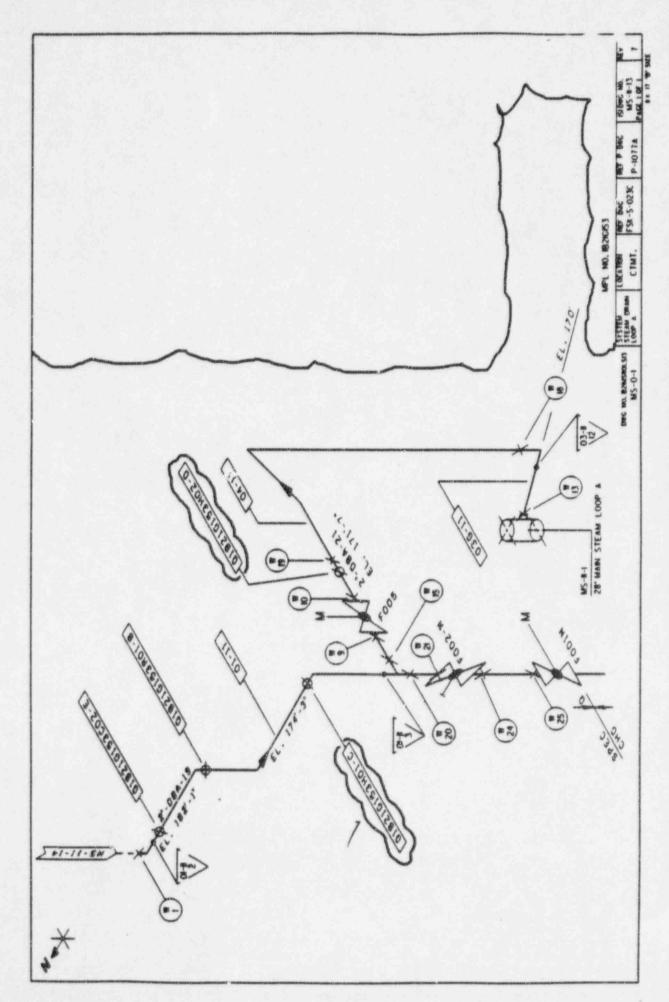


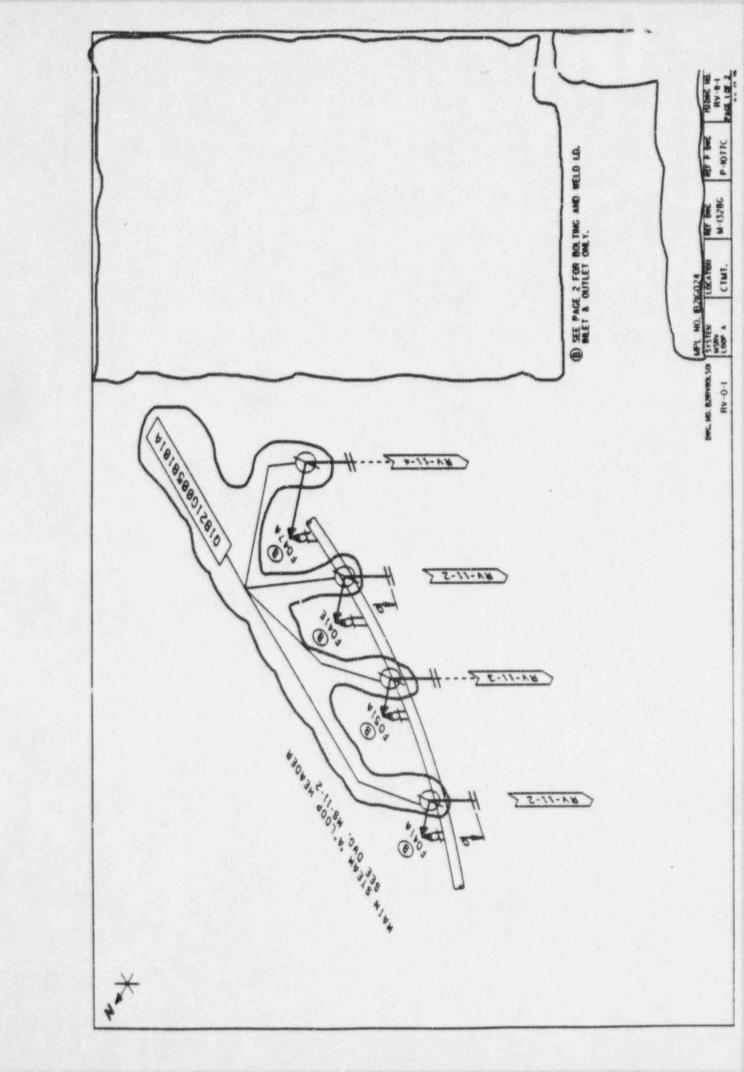
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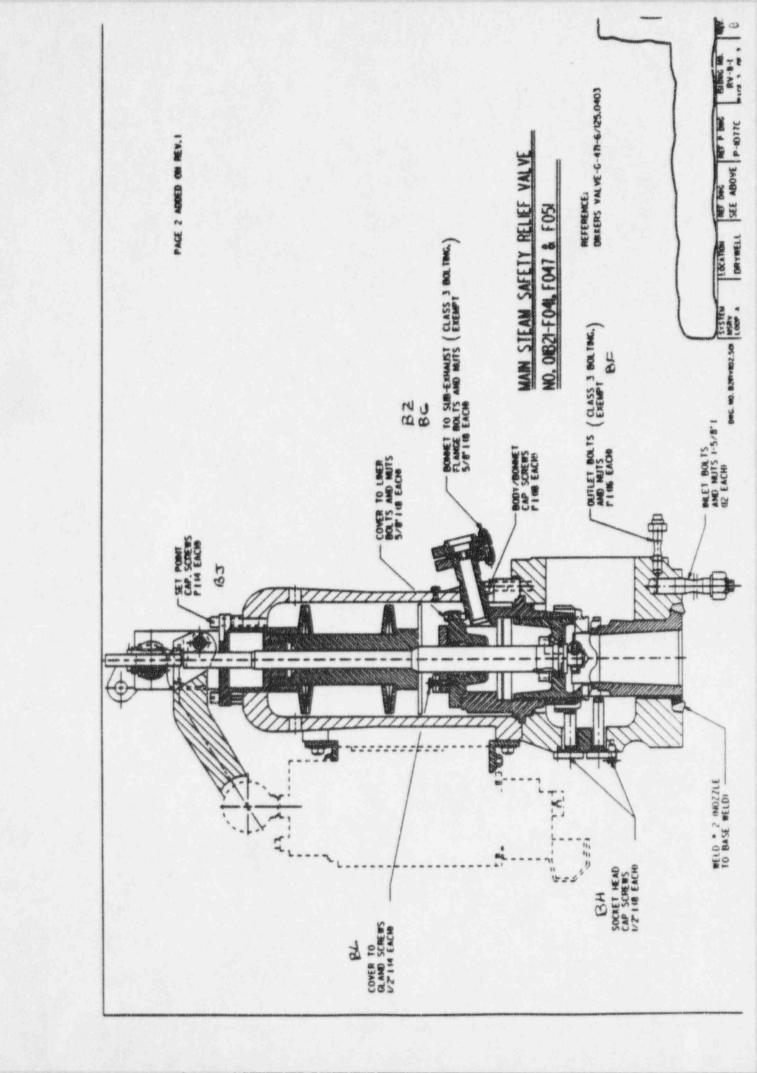


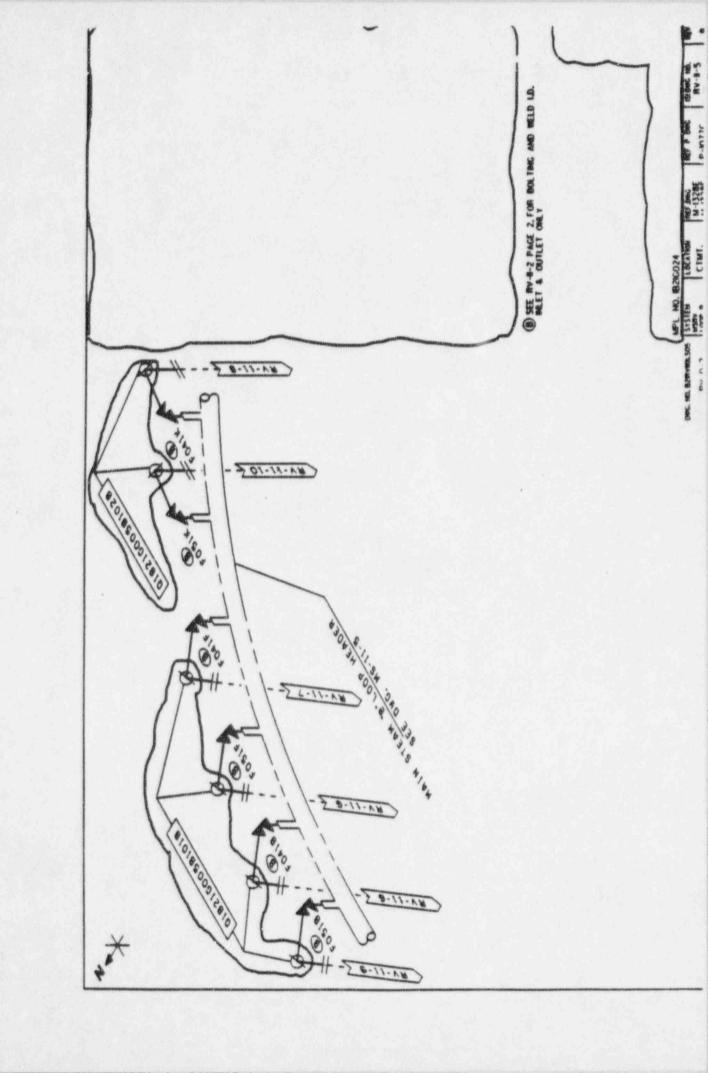


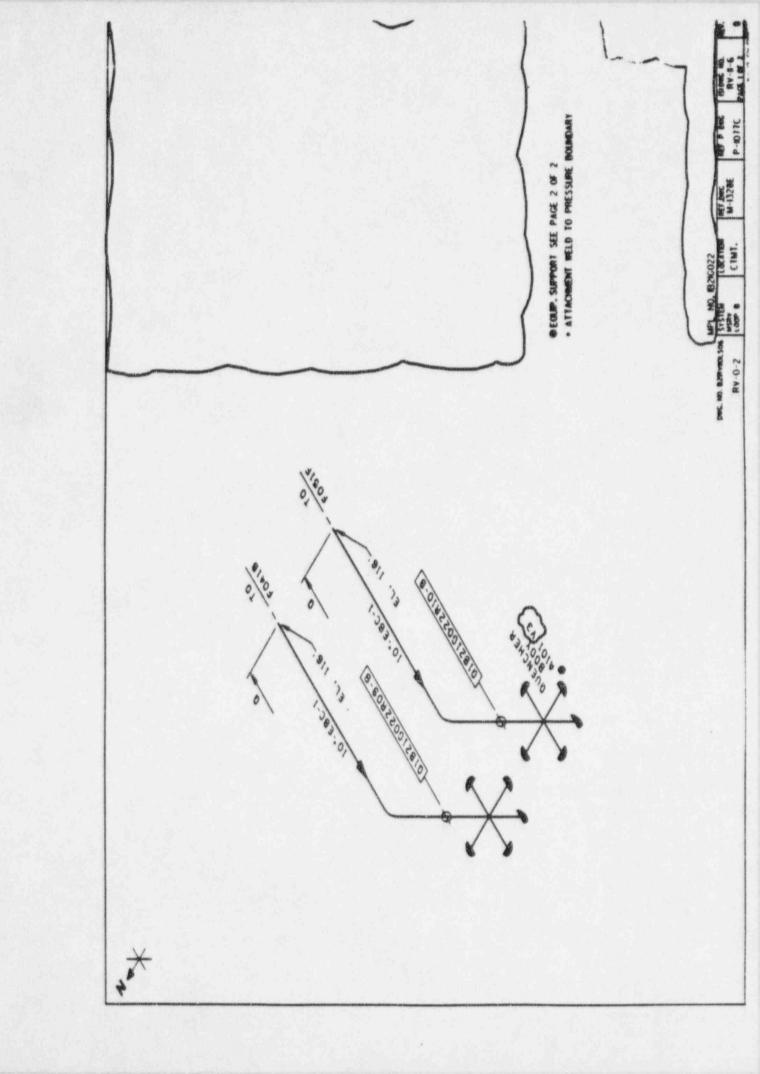




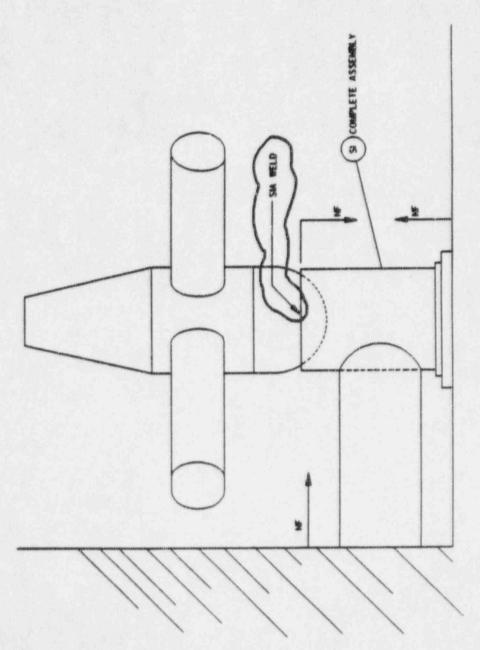








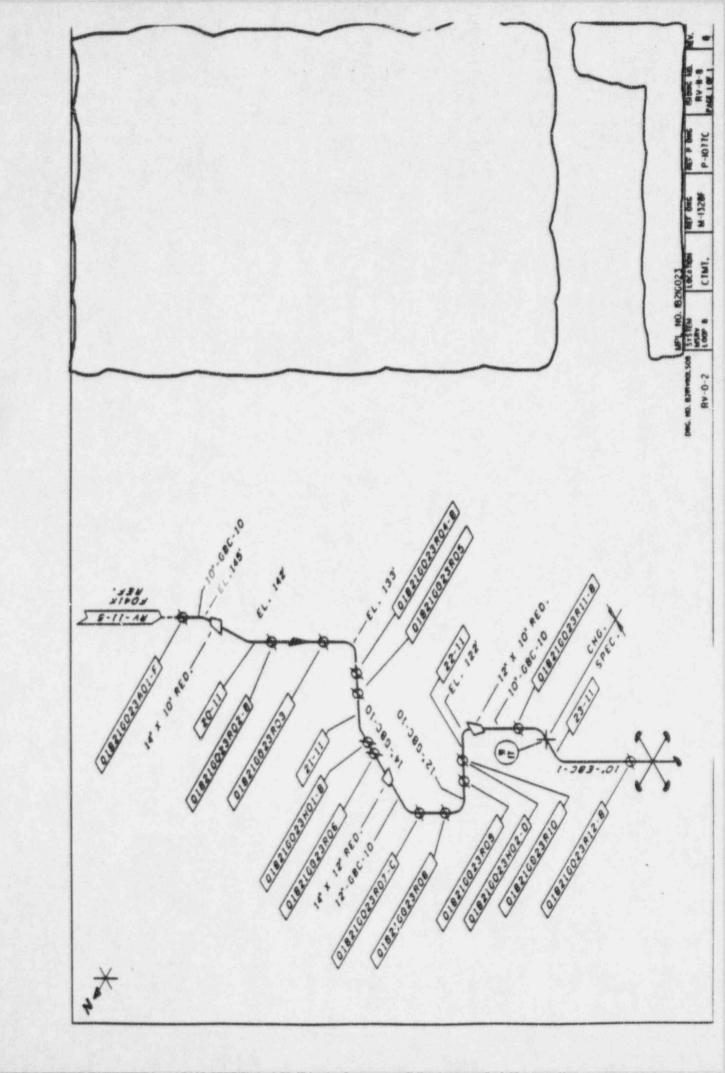
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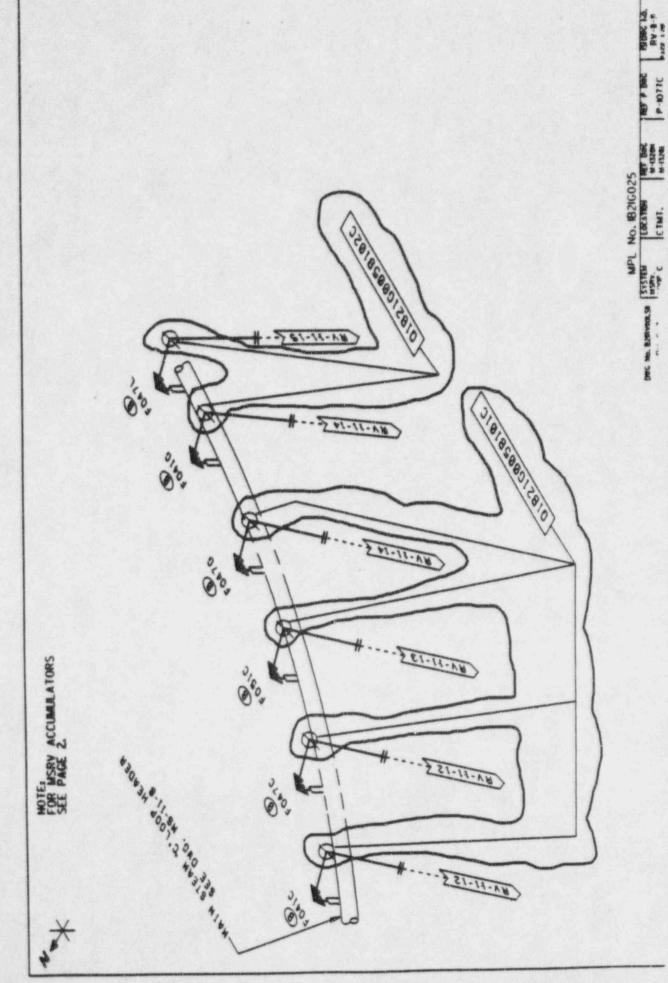


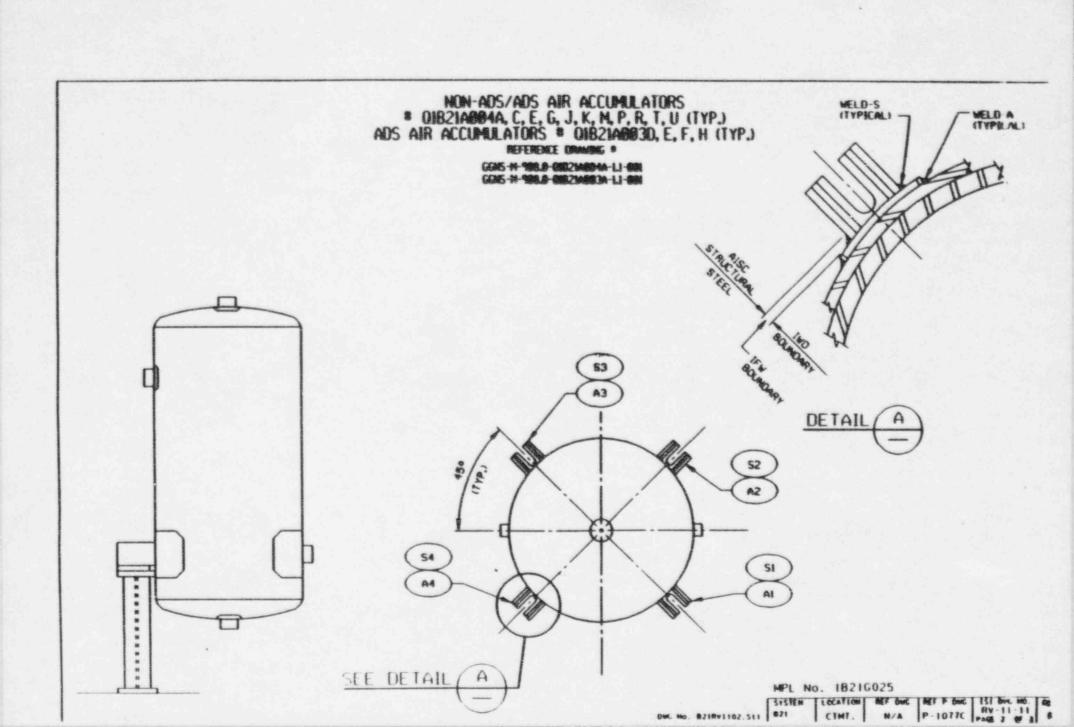
MAIN STEAM SAFETY/RELIEF VALVE DISCHARGE LINE OUENCHER * OBBZIAIO!

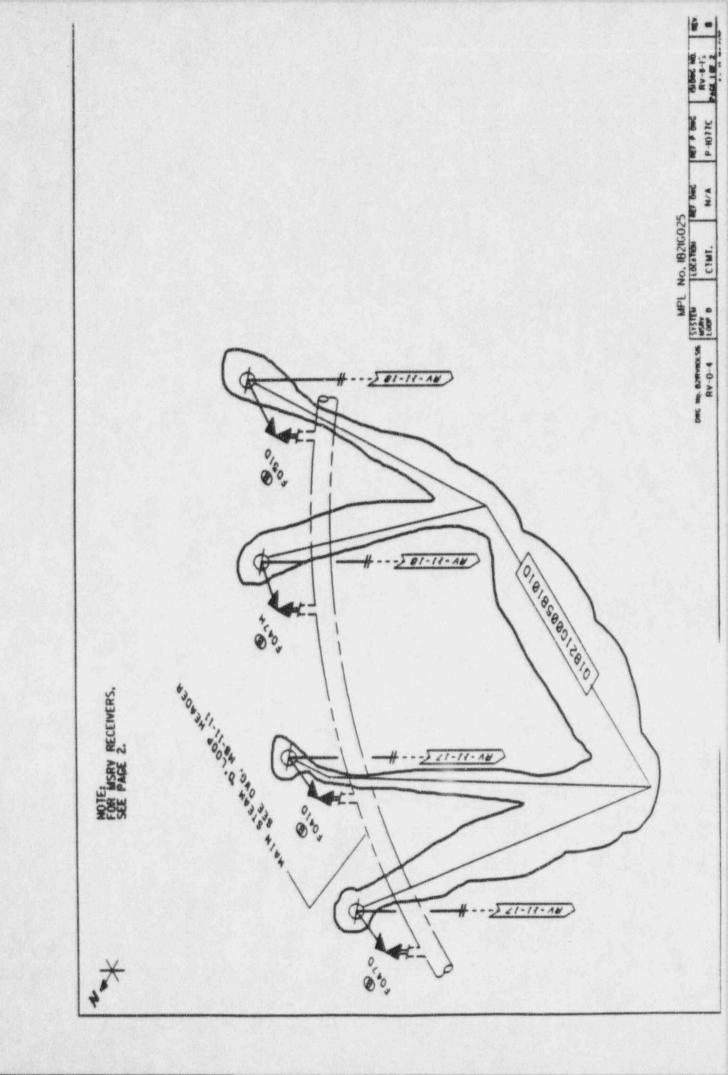
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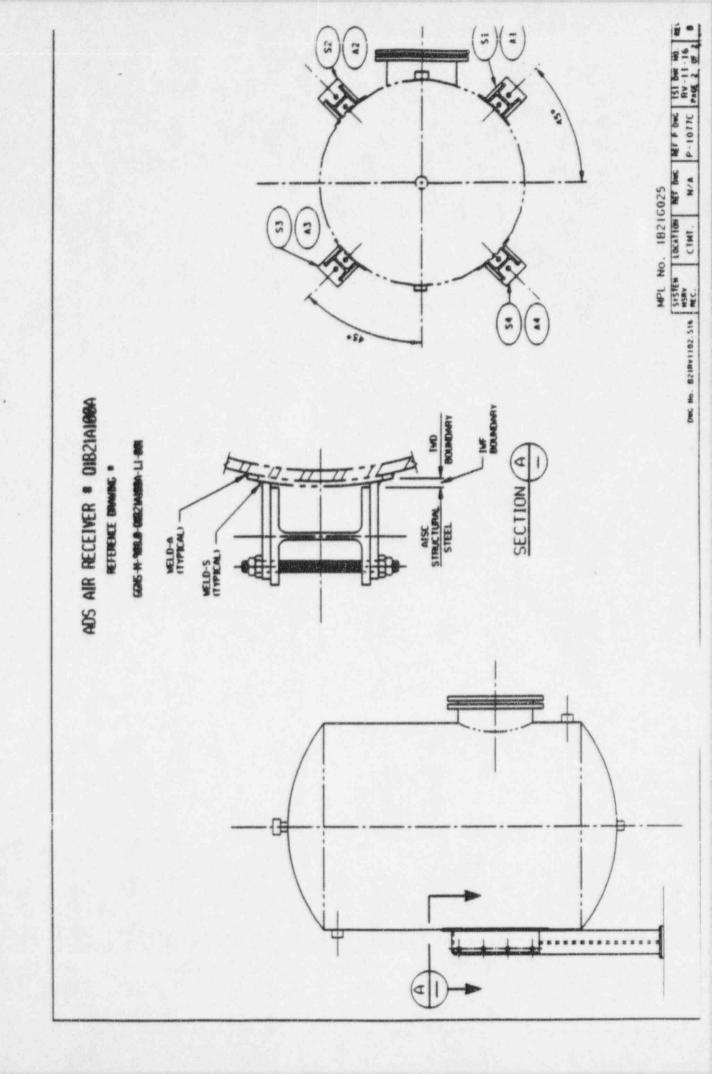
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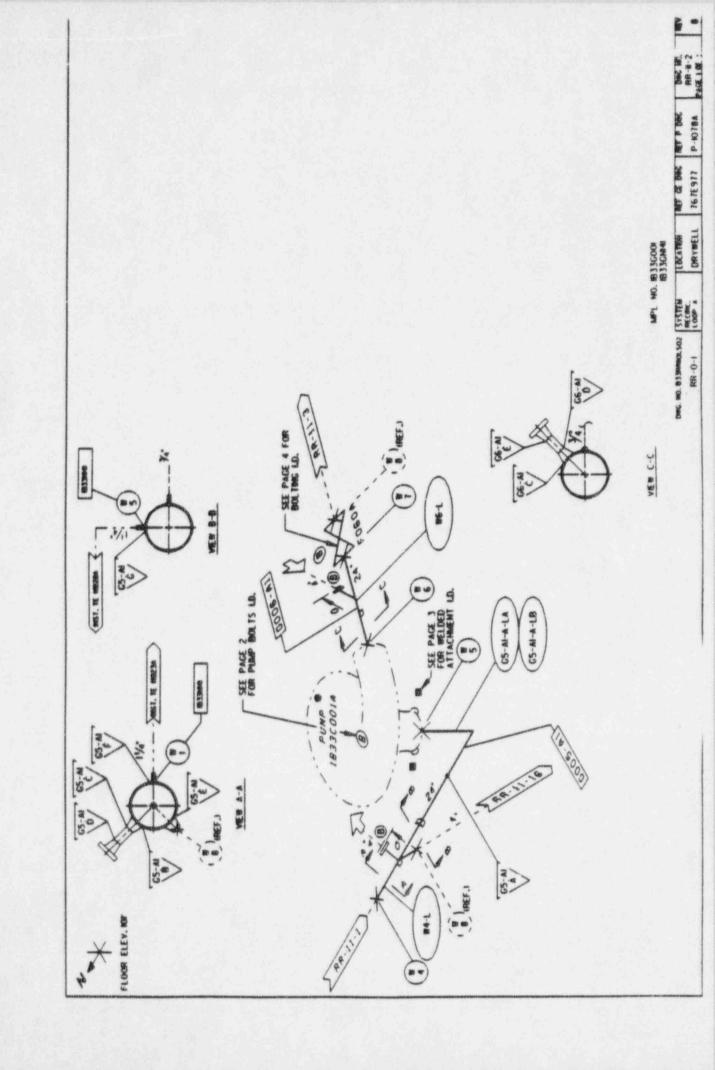


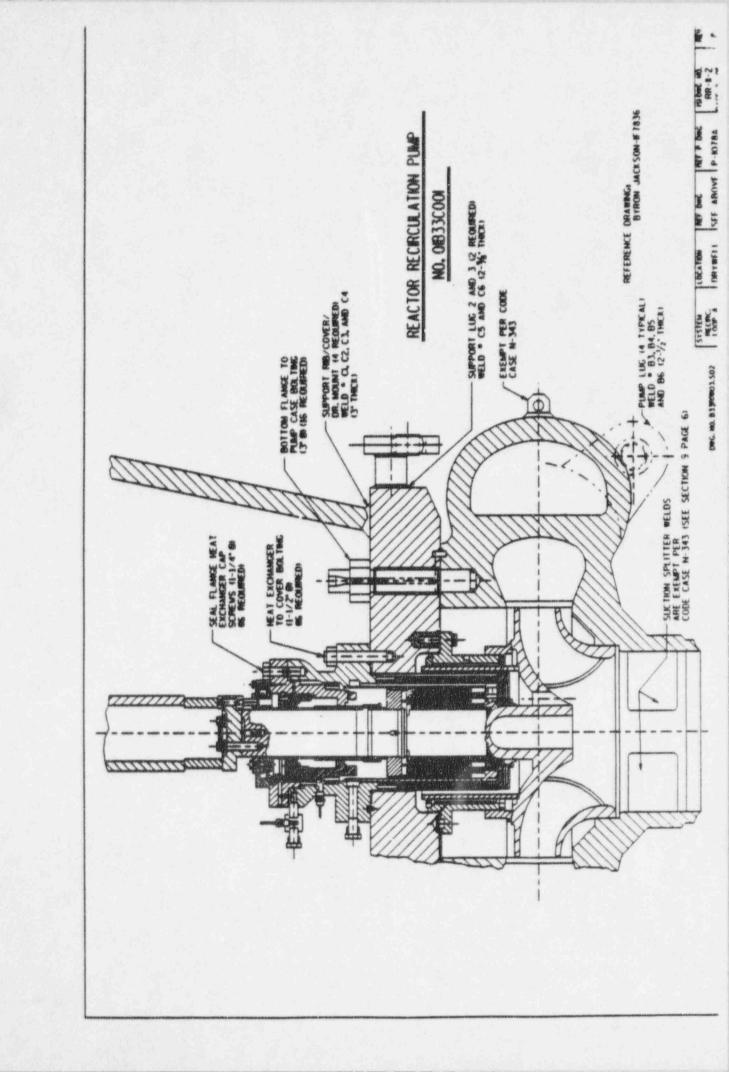












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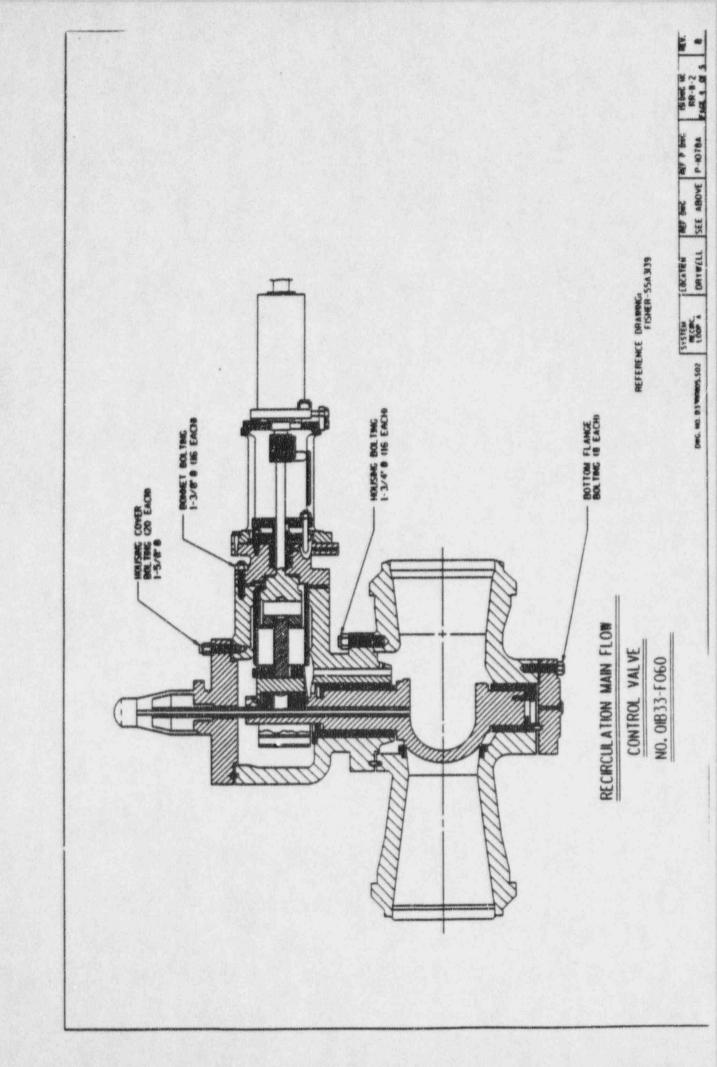
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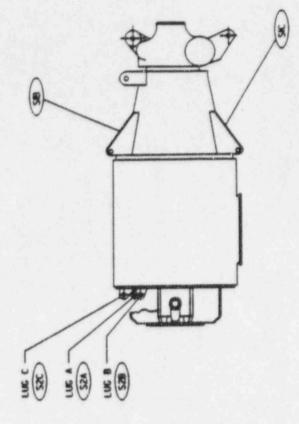
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SYSTEM

SEE ABOVE P-1078A

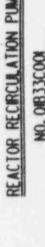
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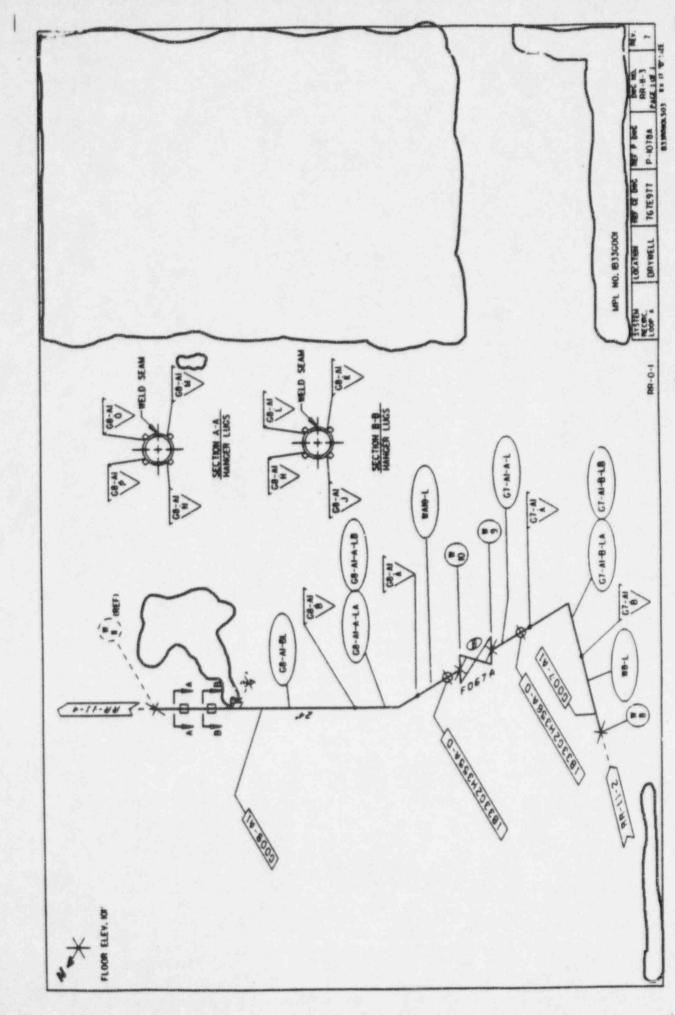
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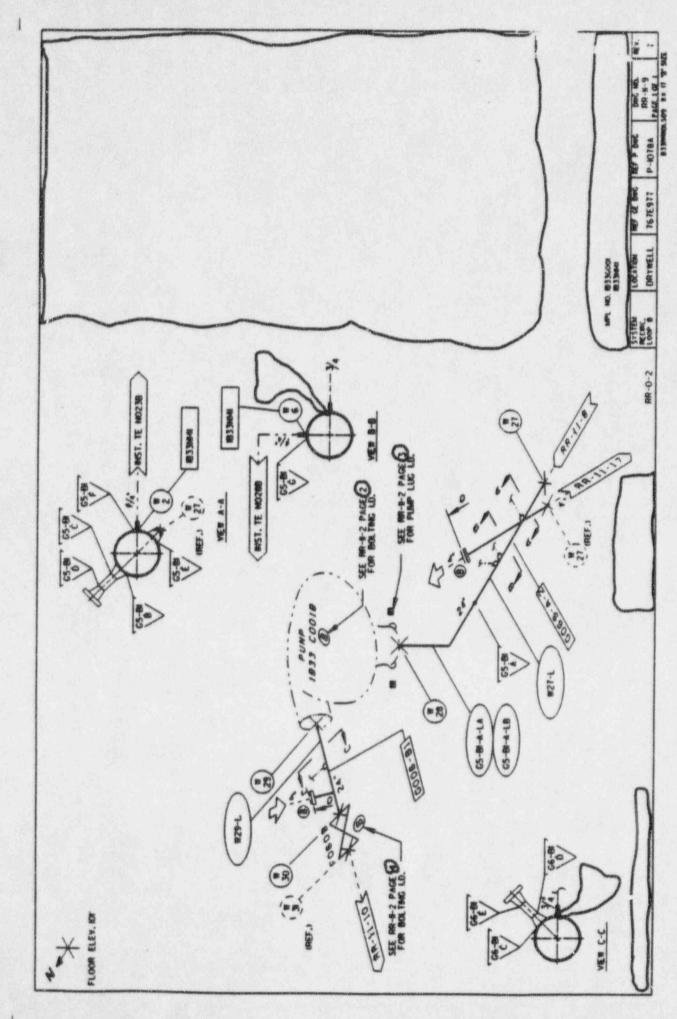


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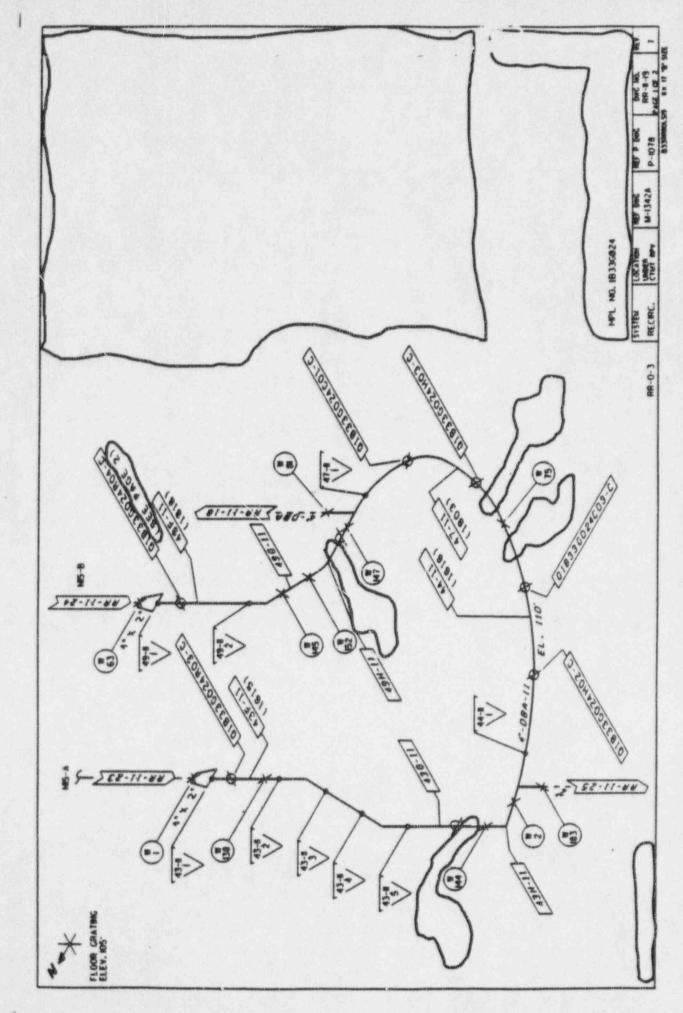
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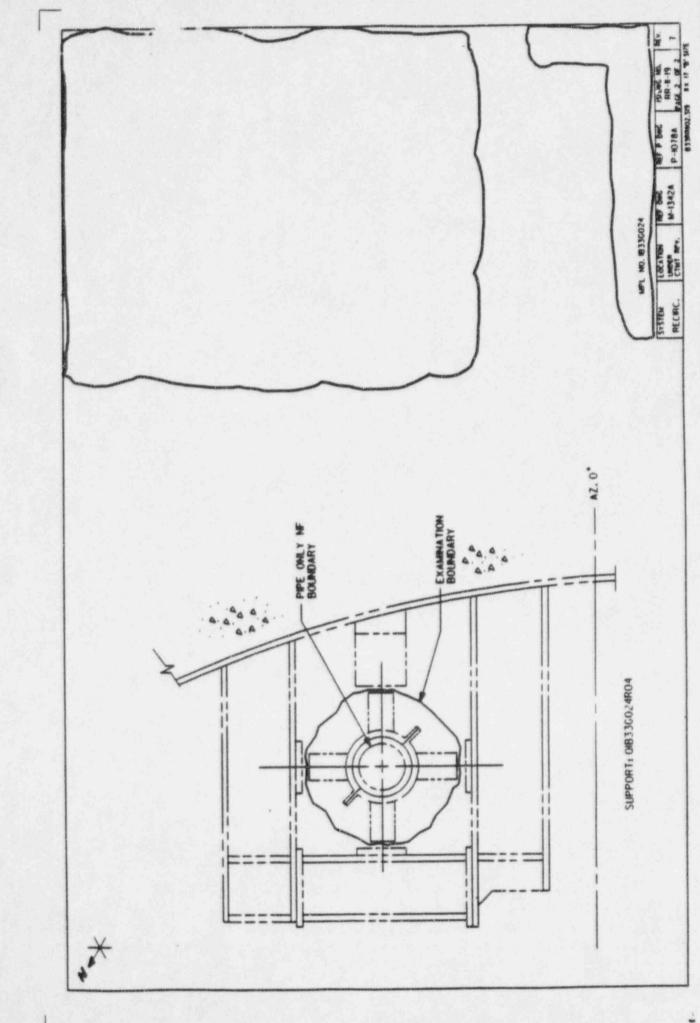
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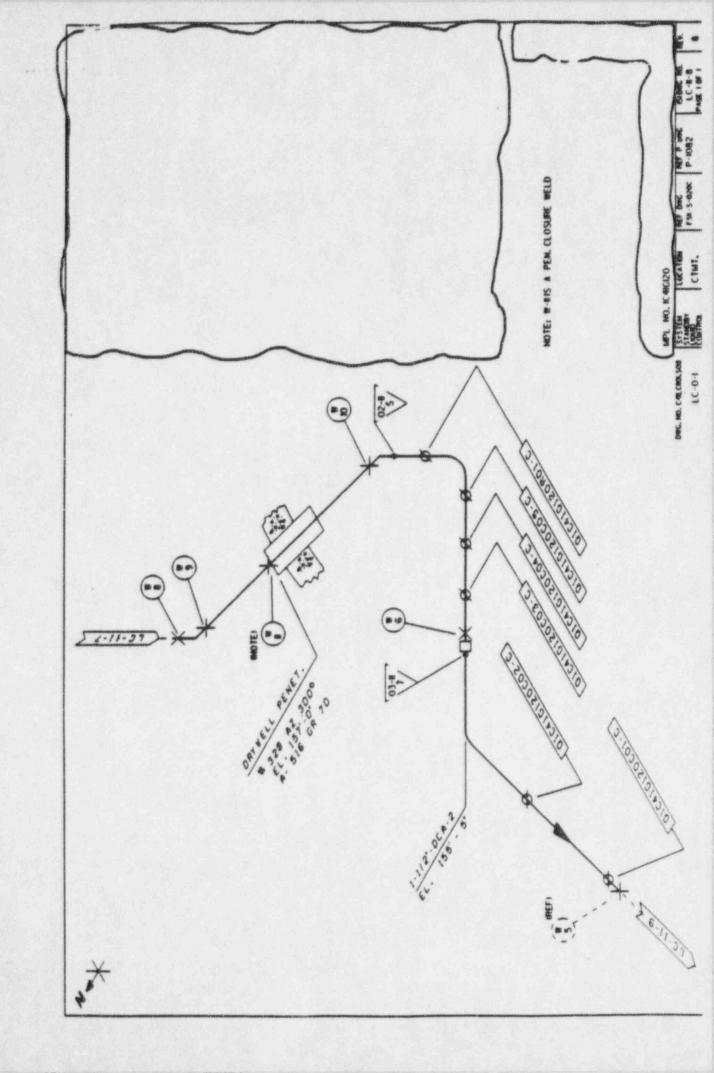


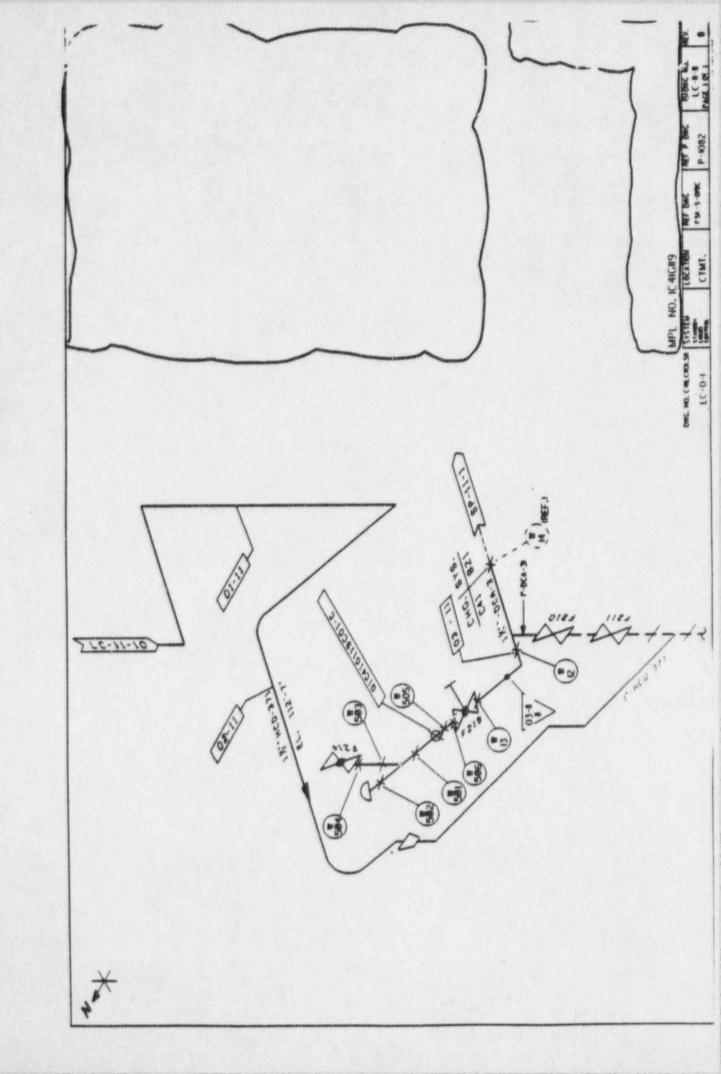
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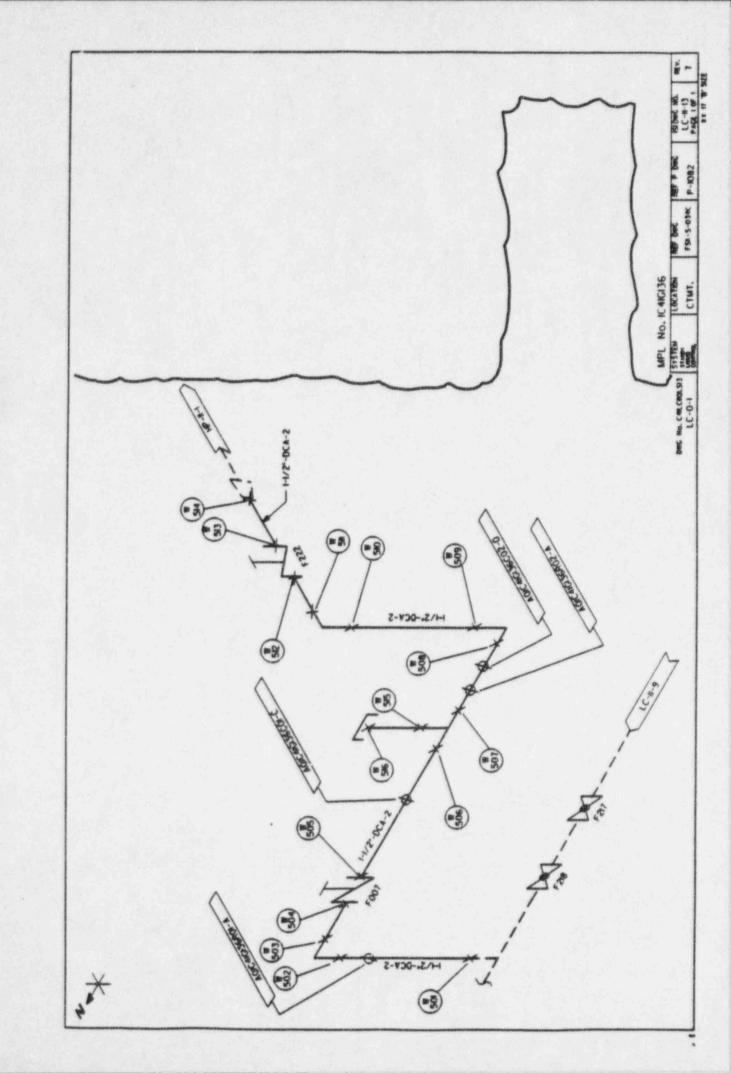


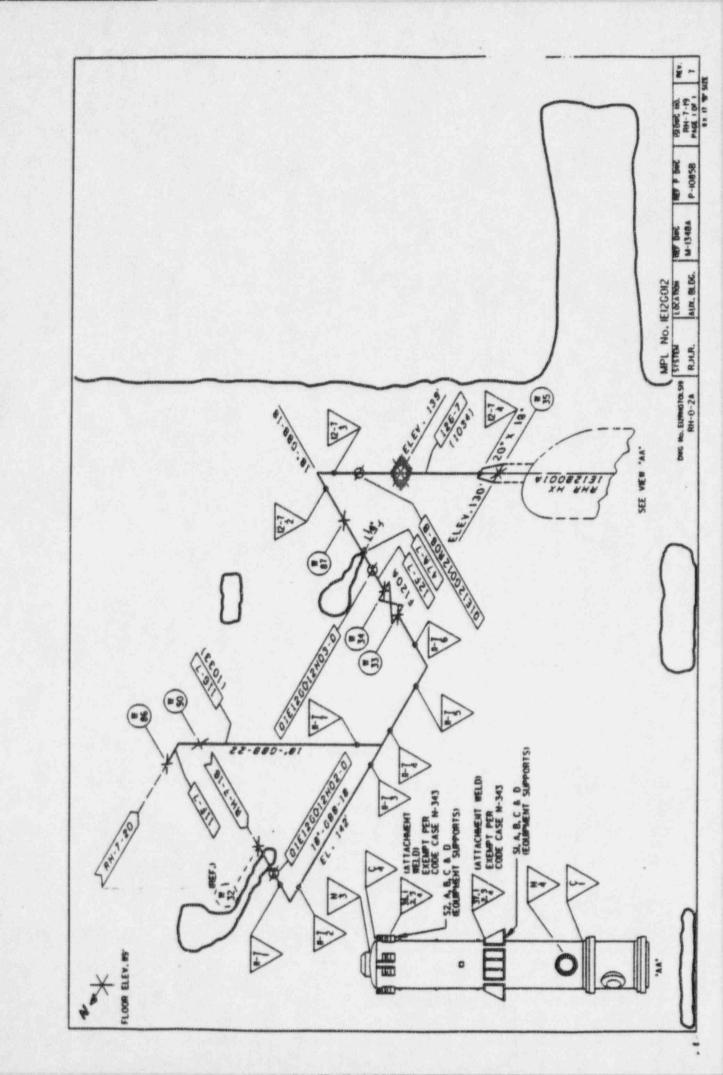
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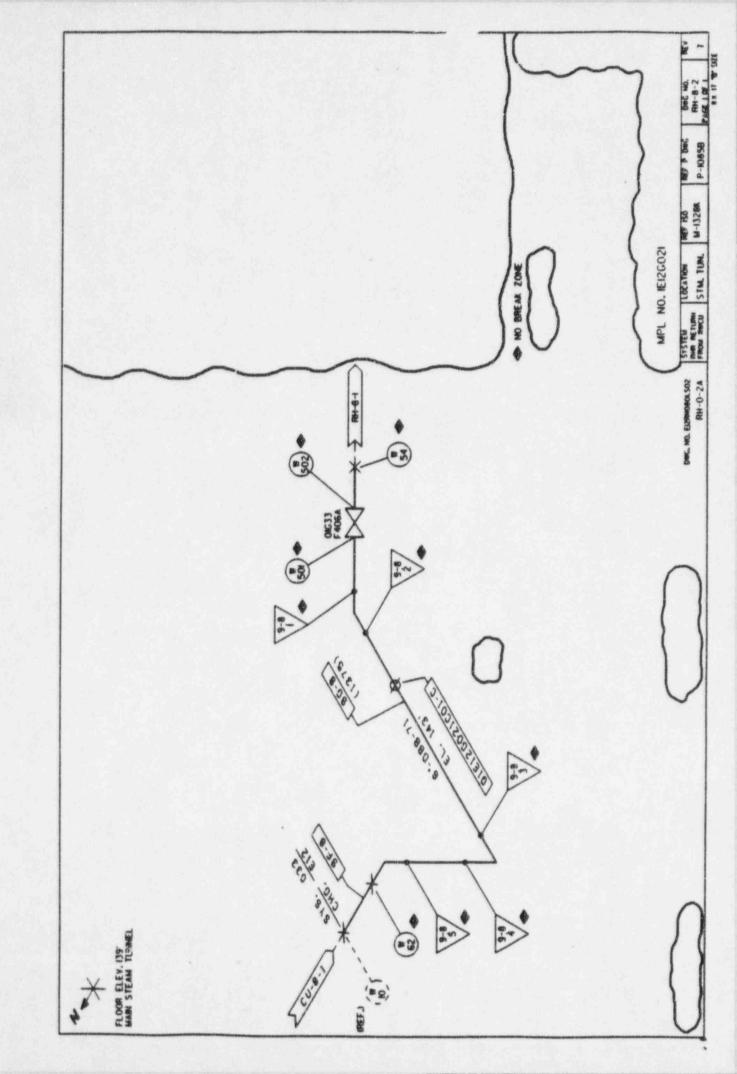


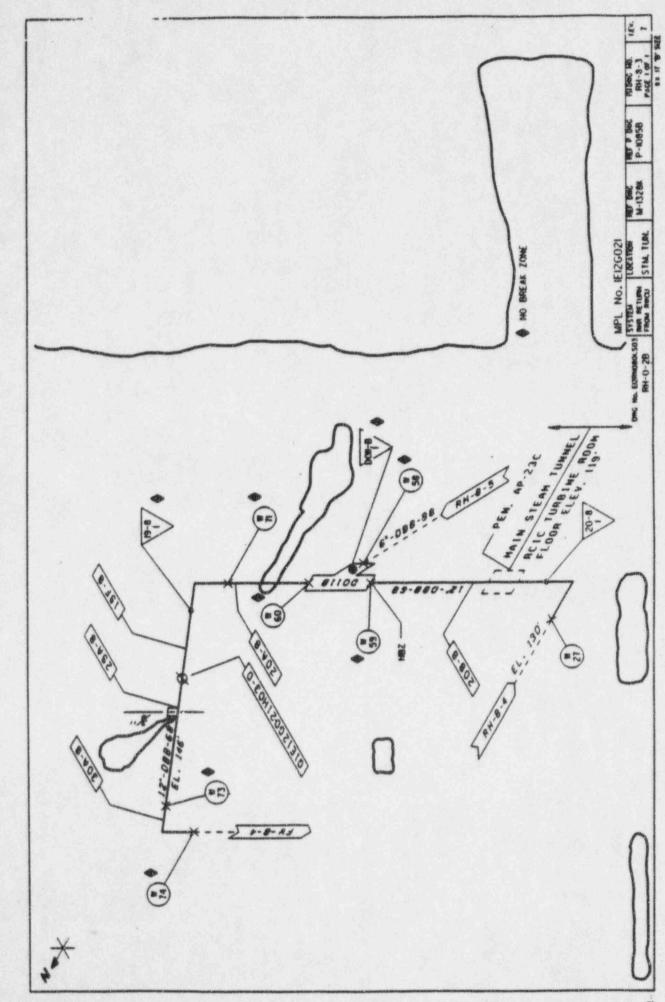


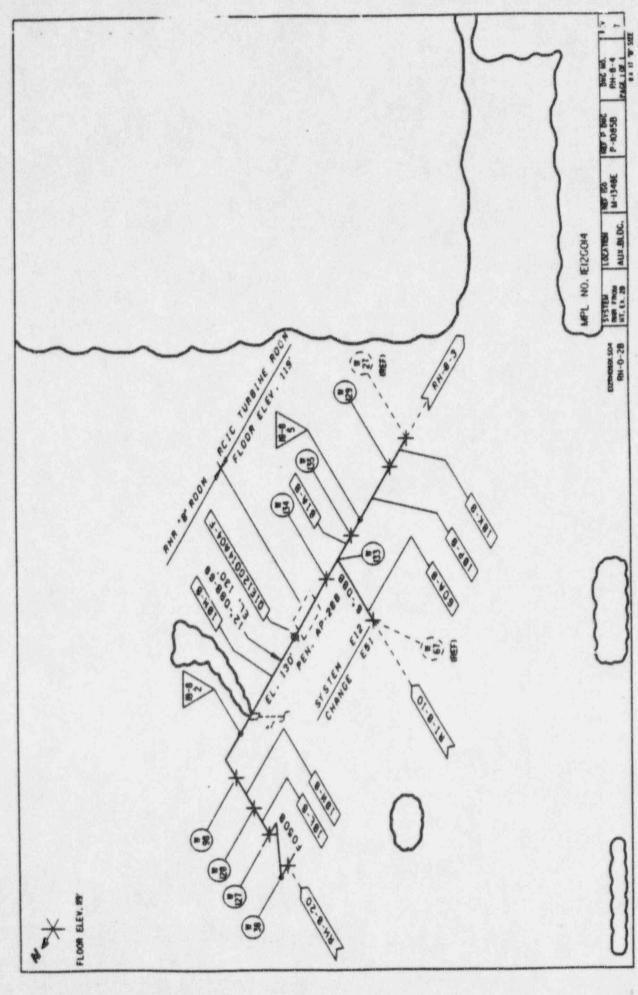




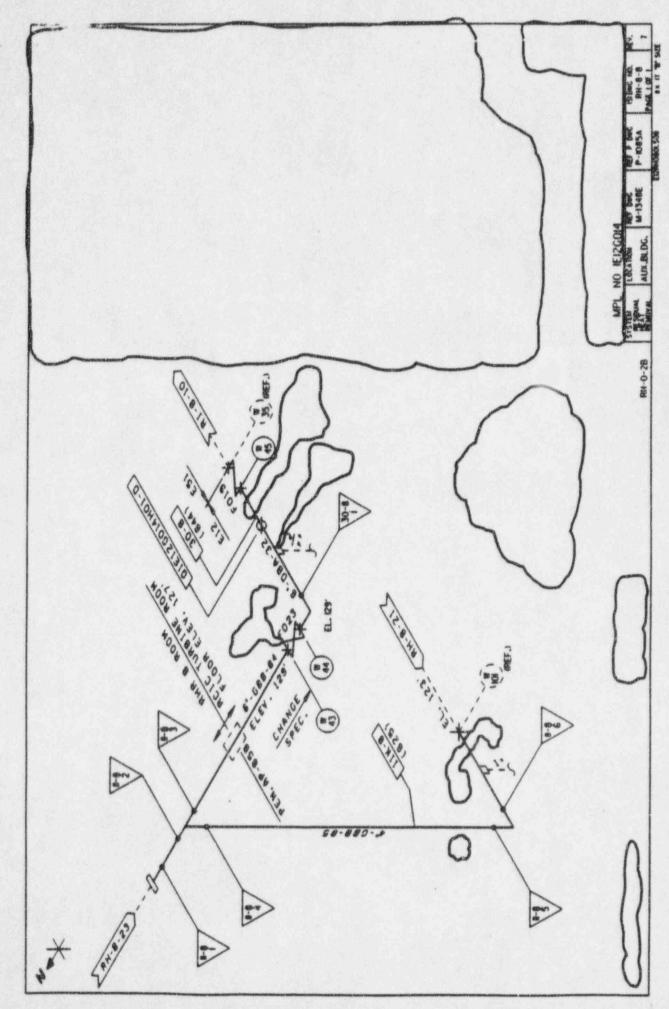


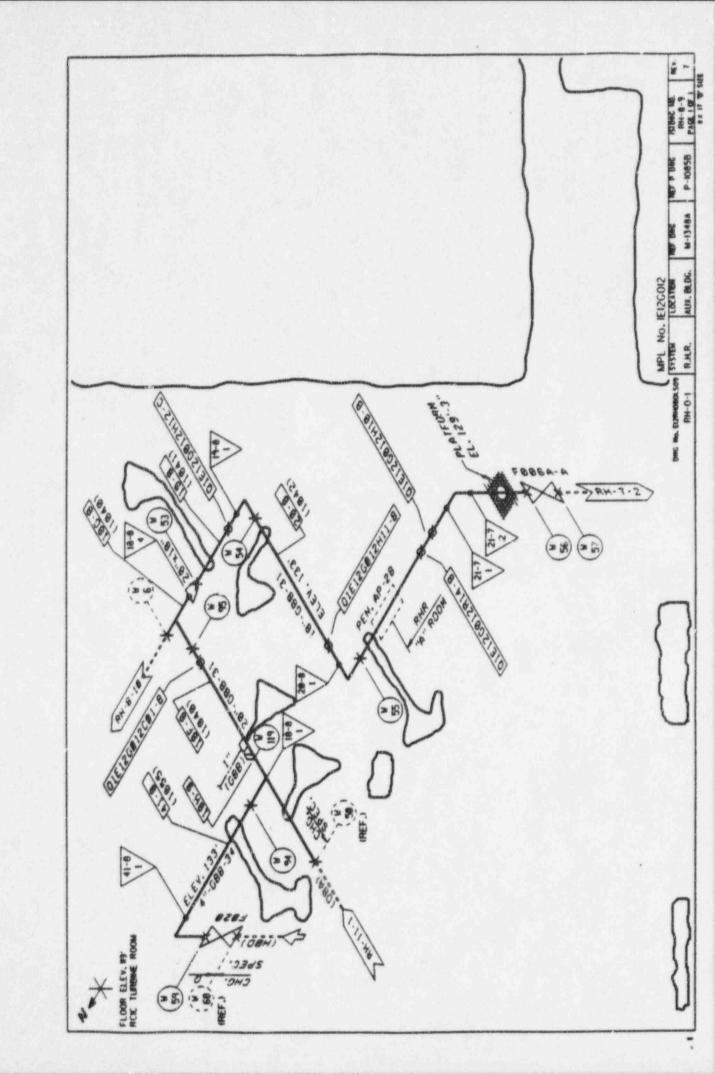


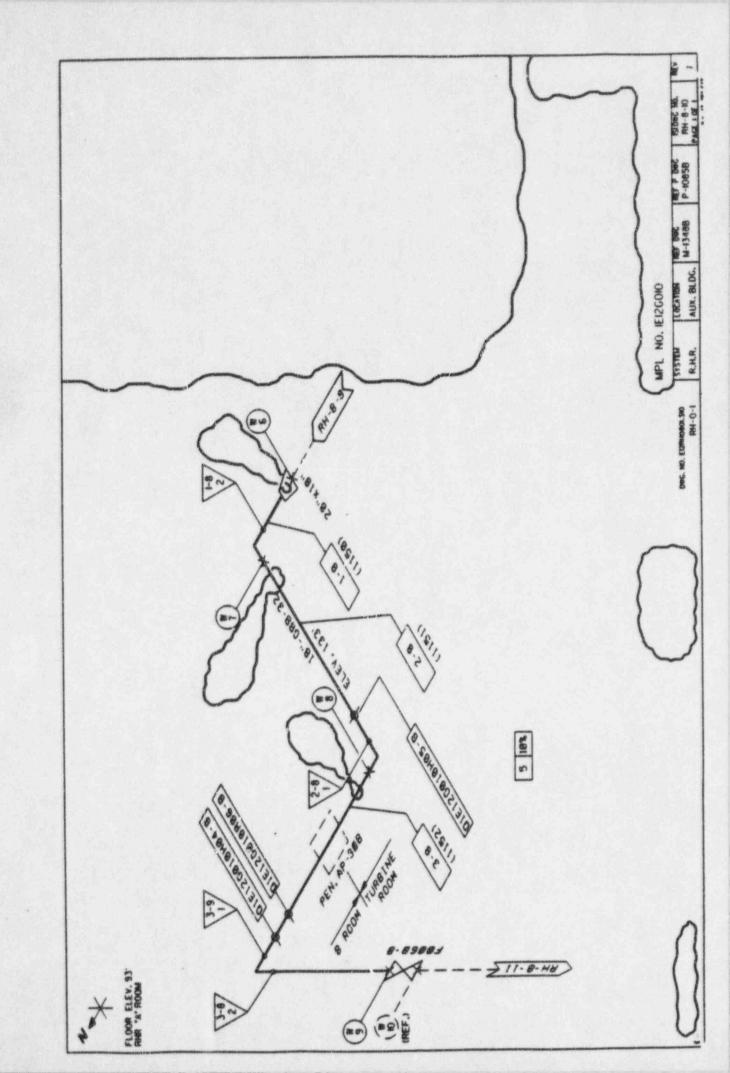


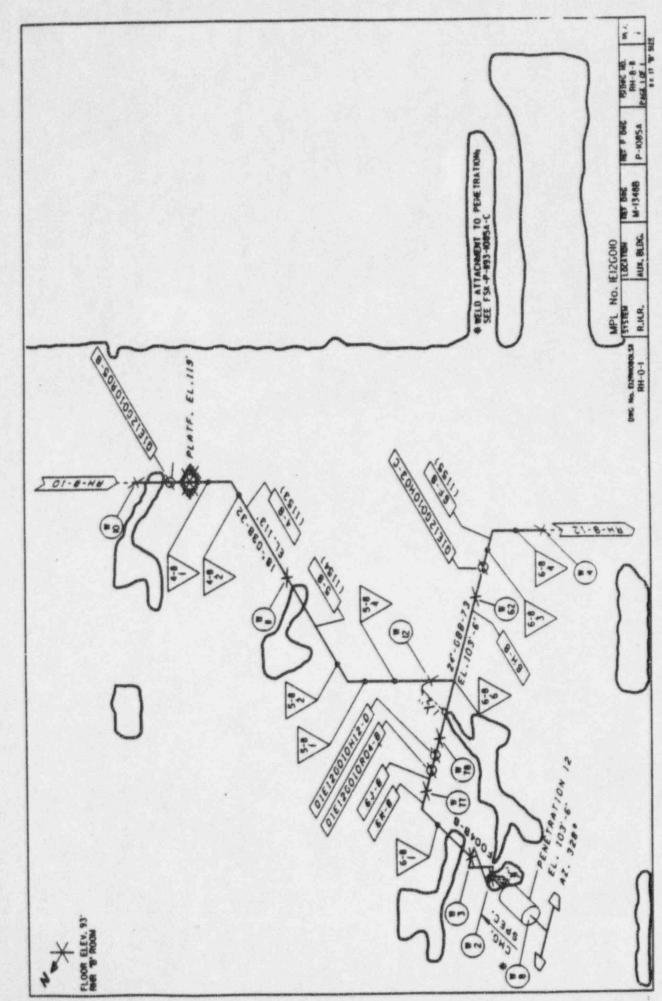


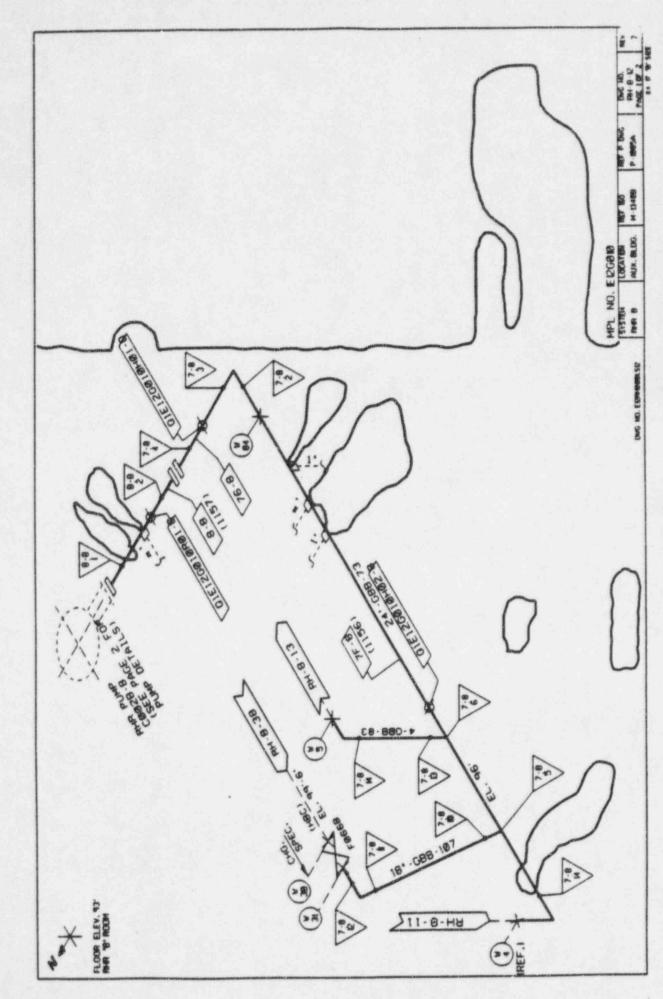
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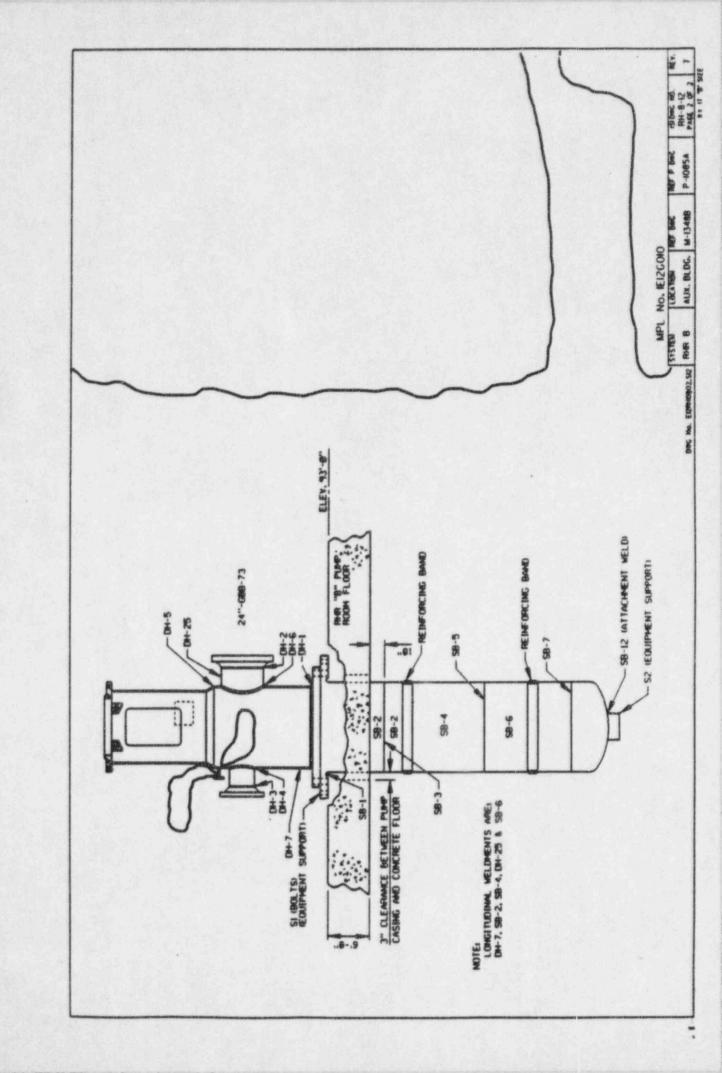


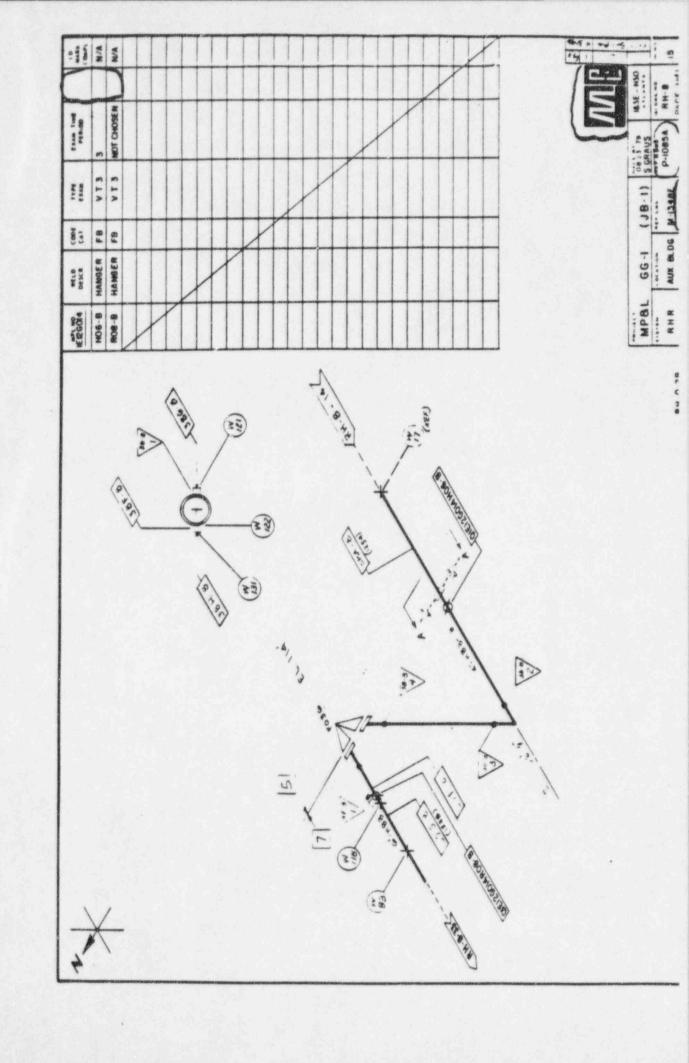


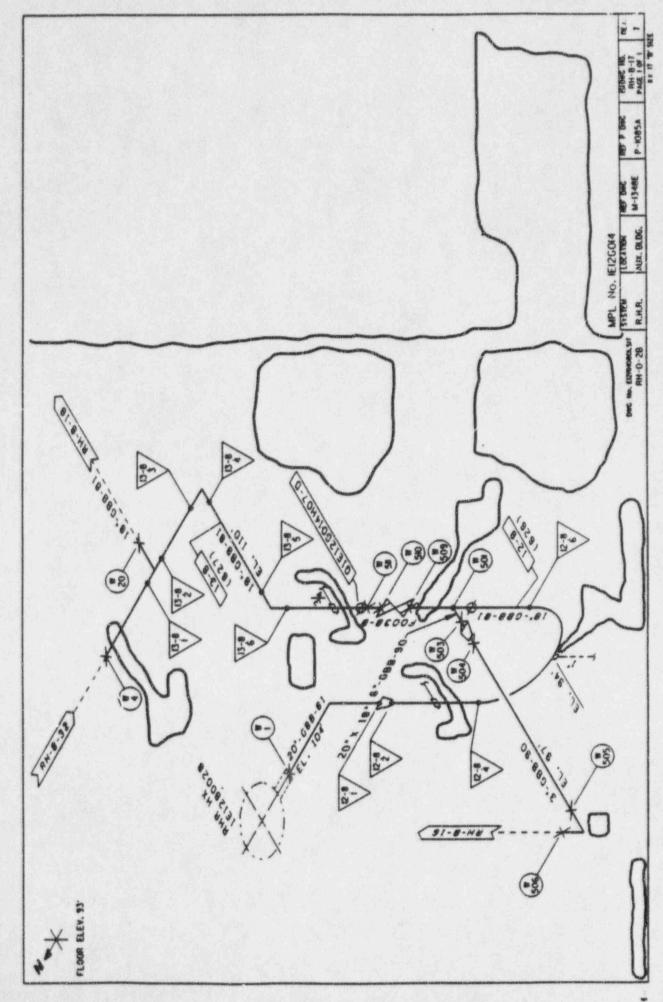


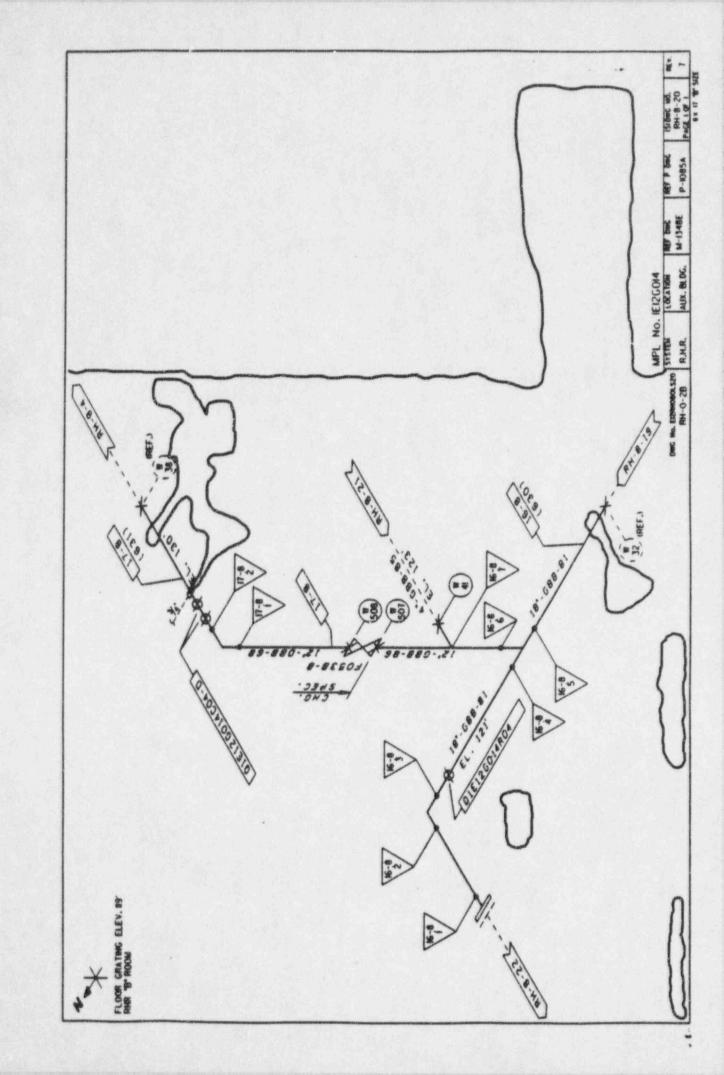


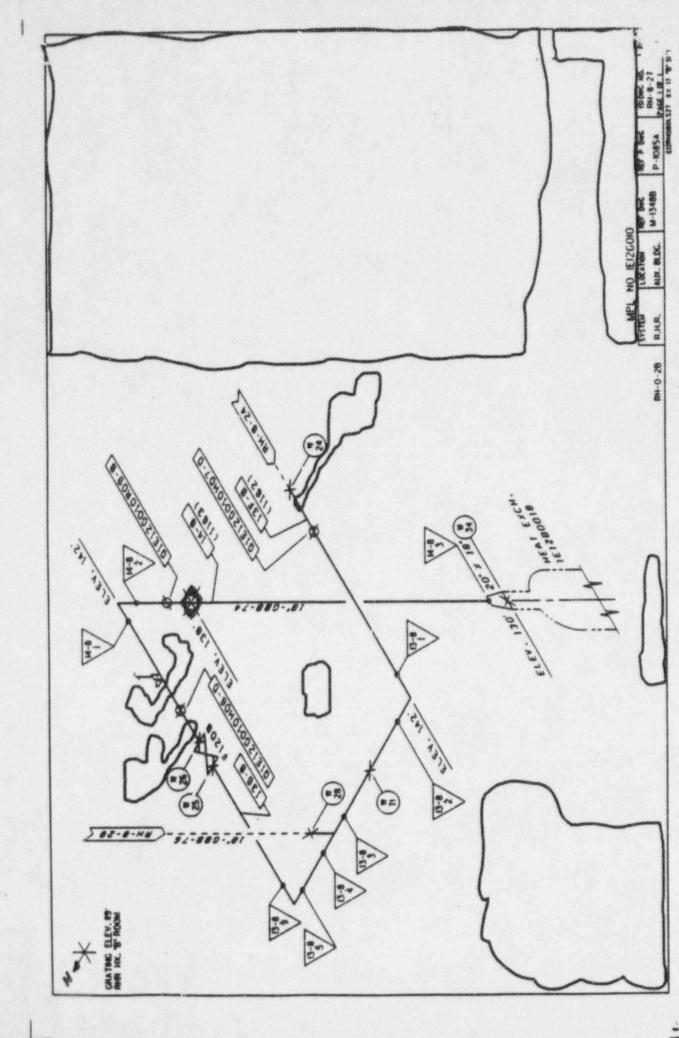




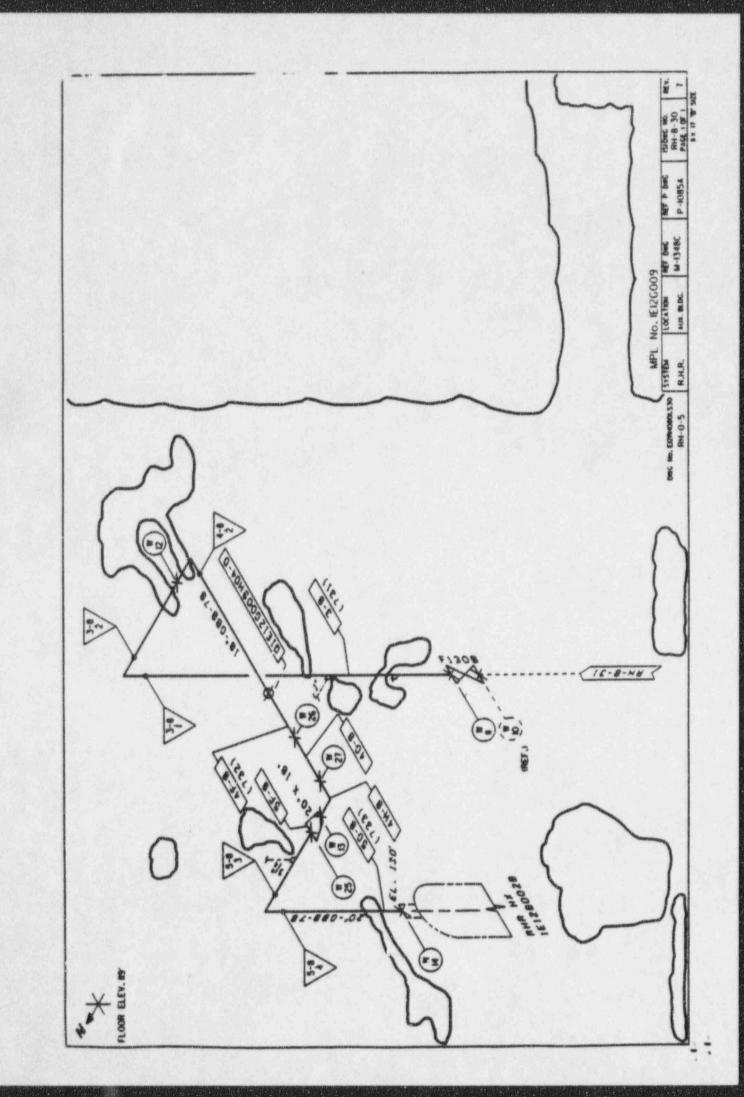


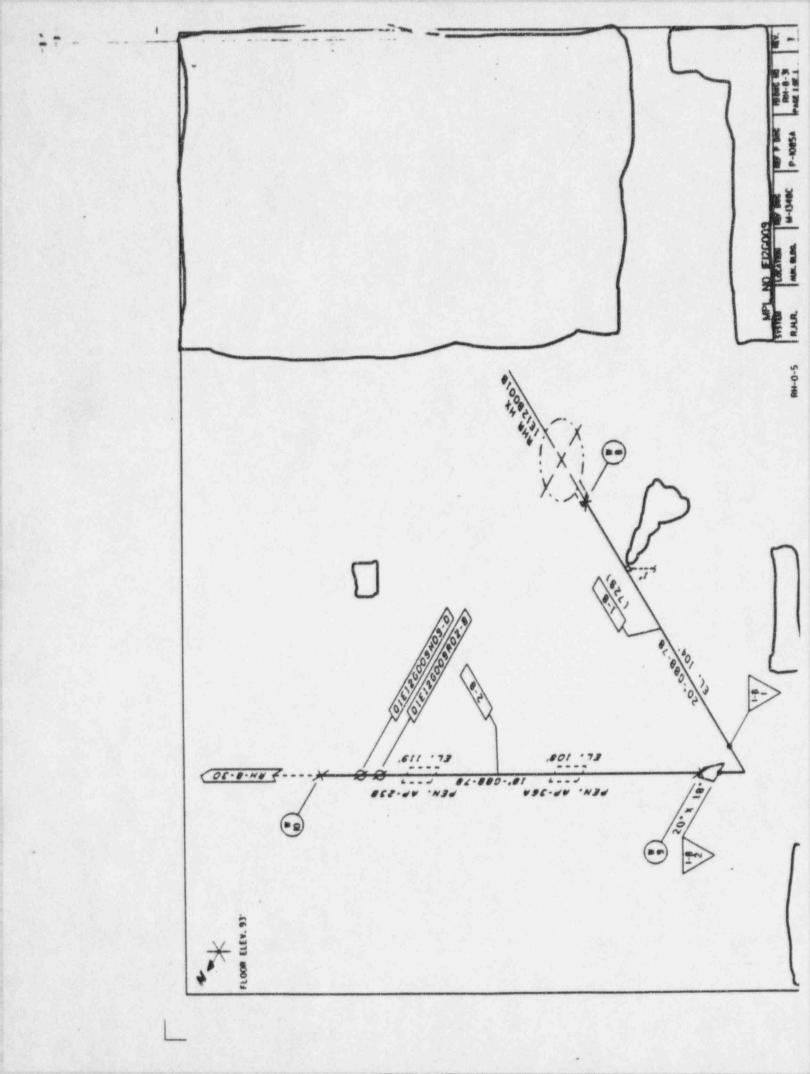


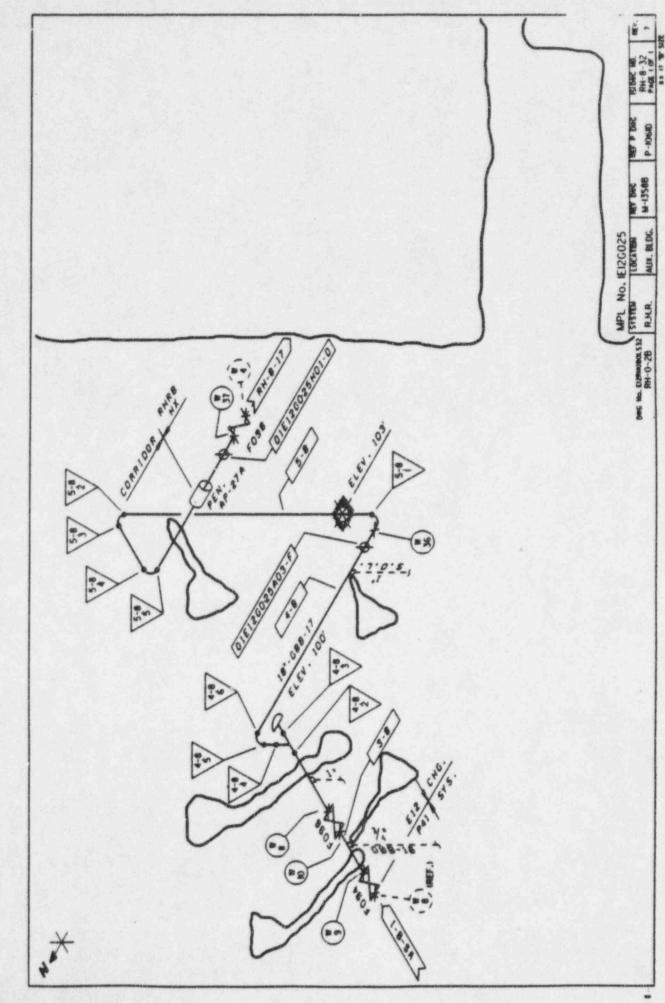


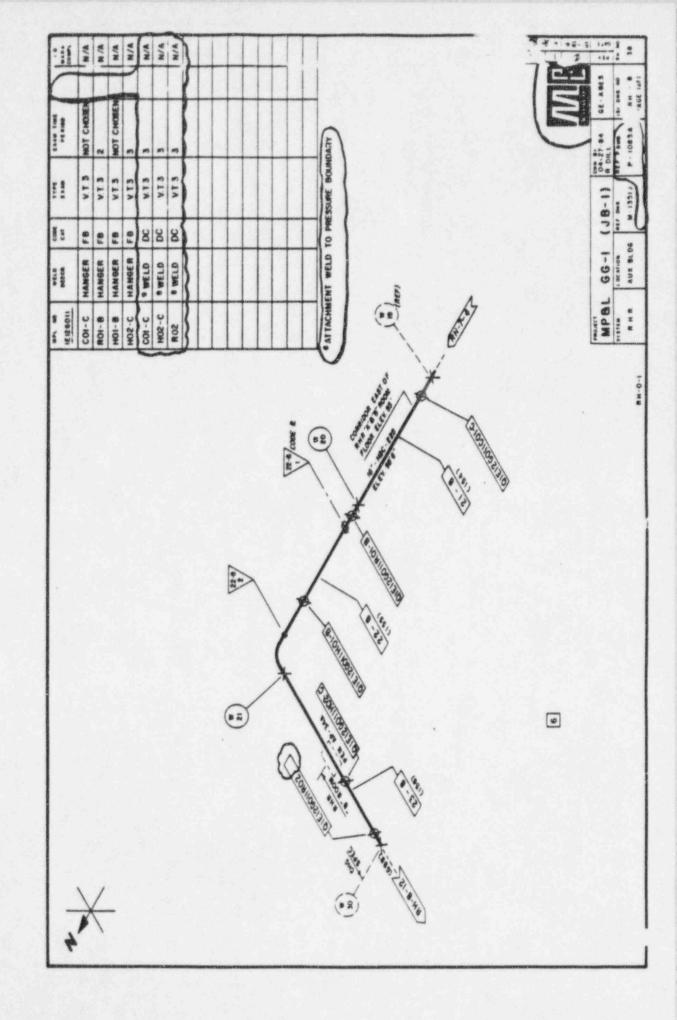


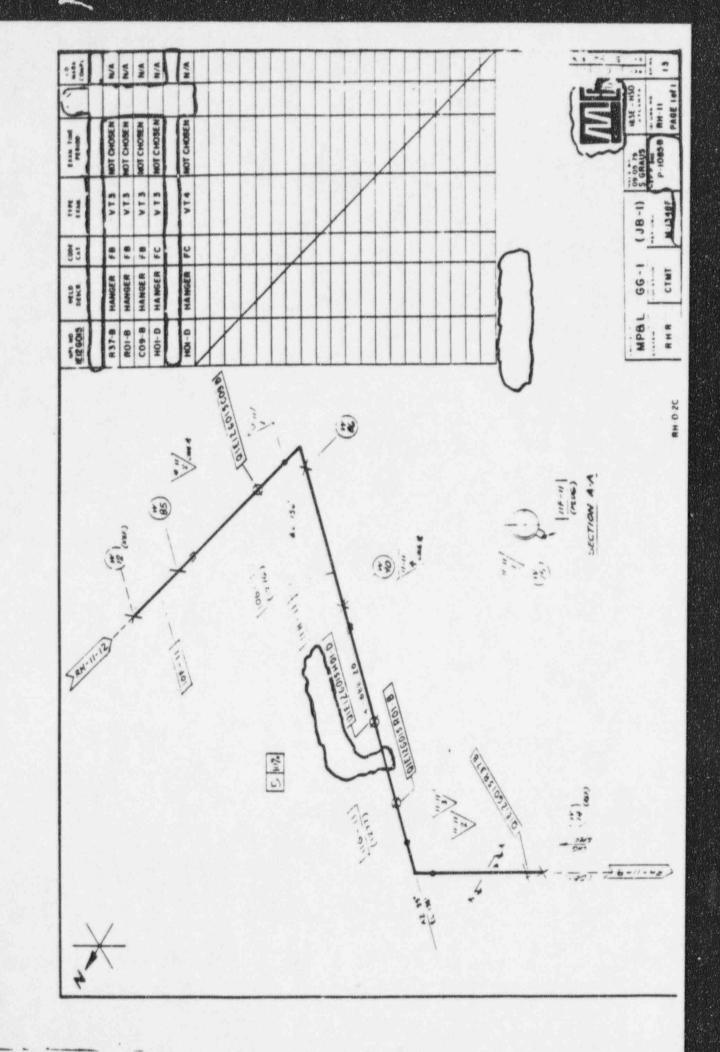
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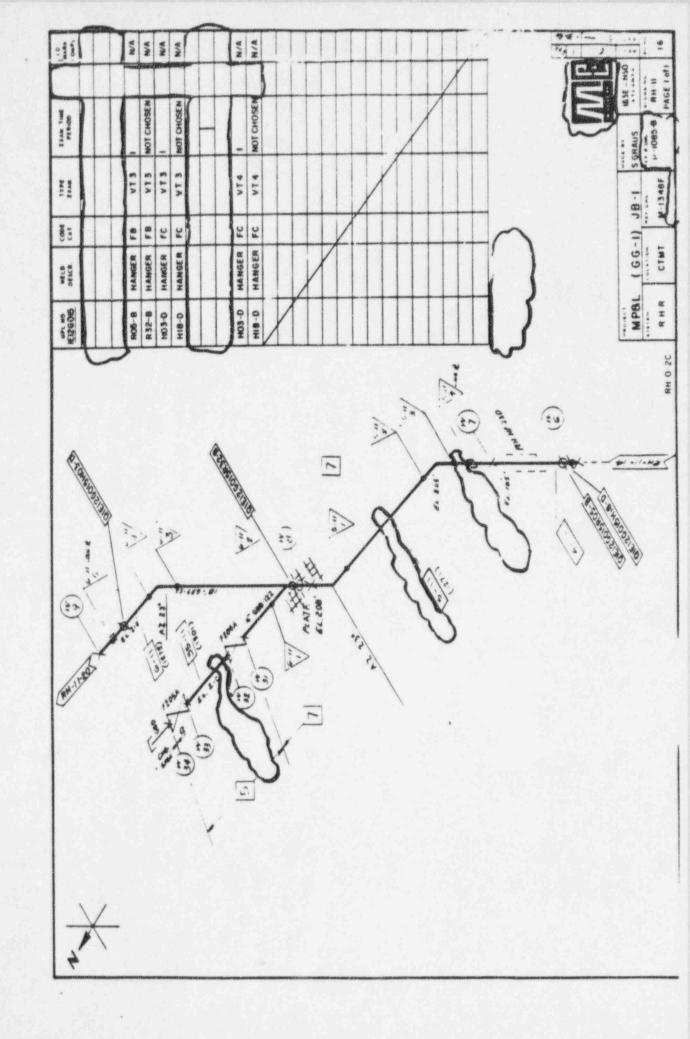


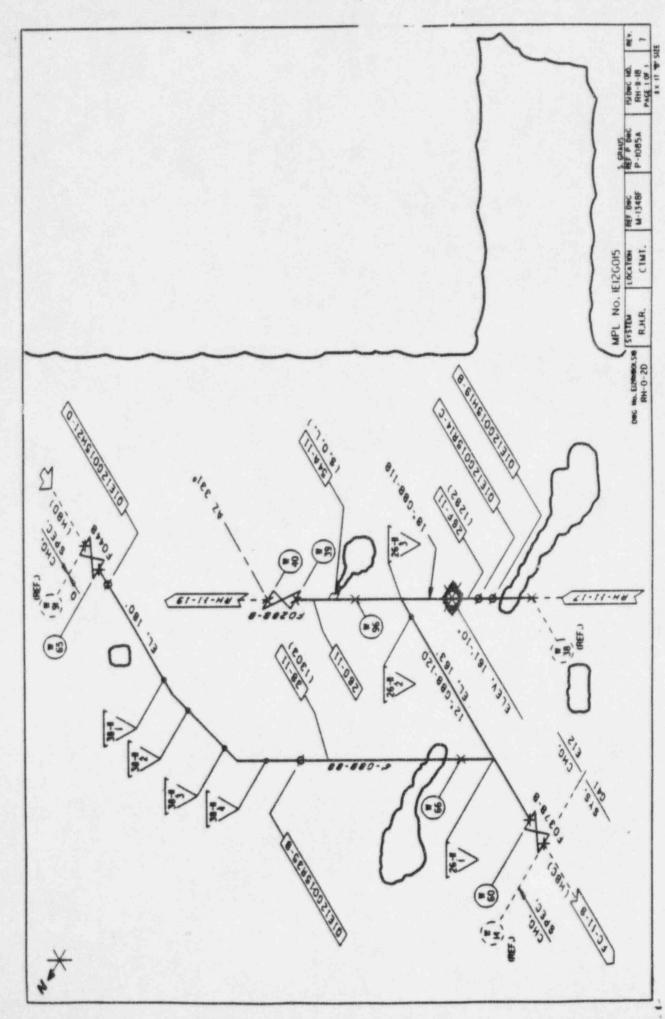




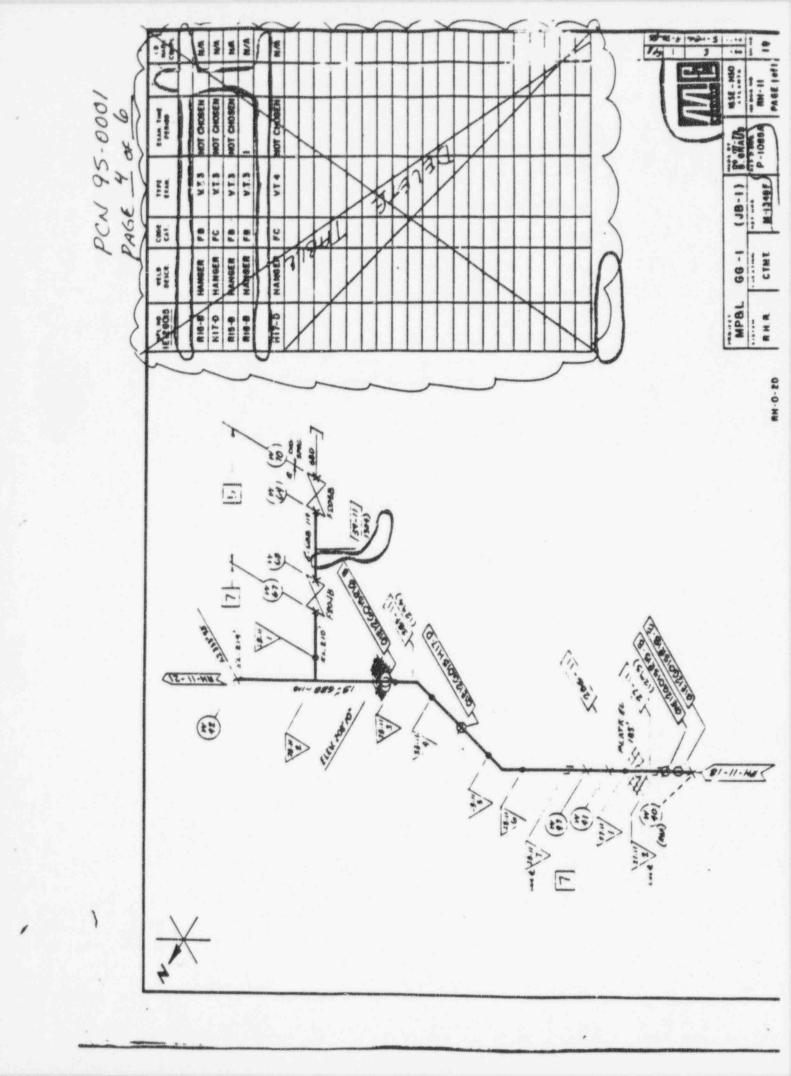


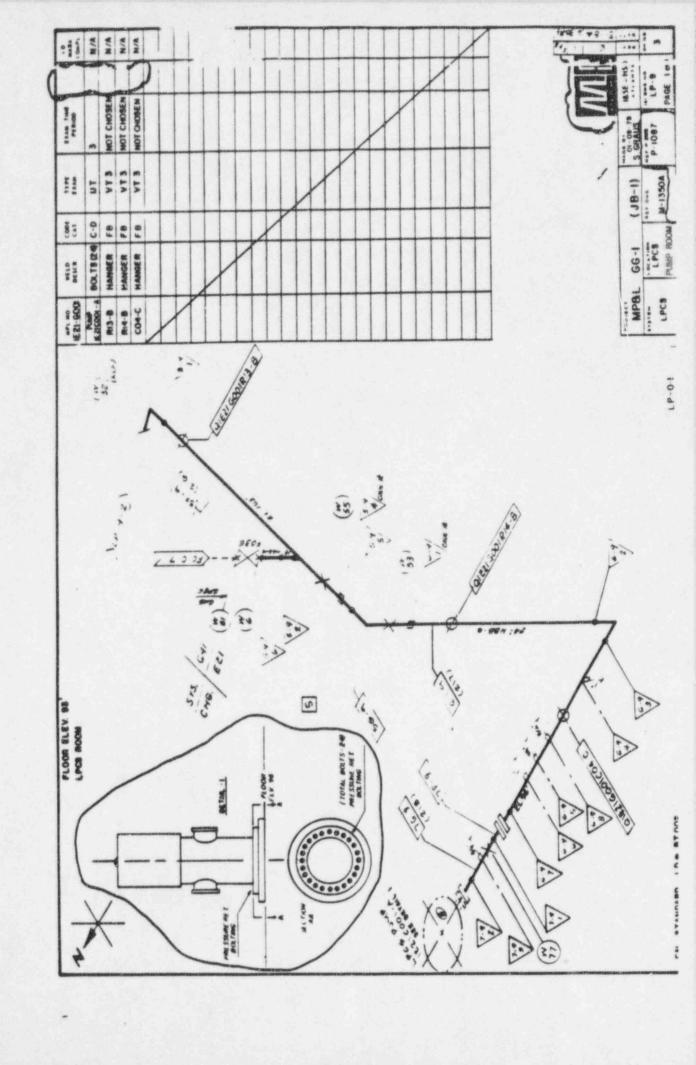


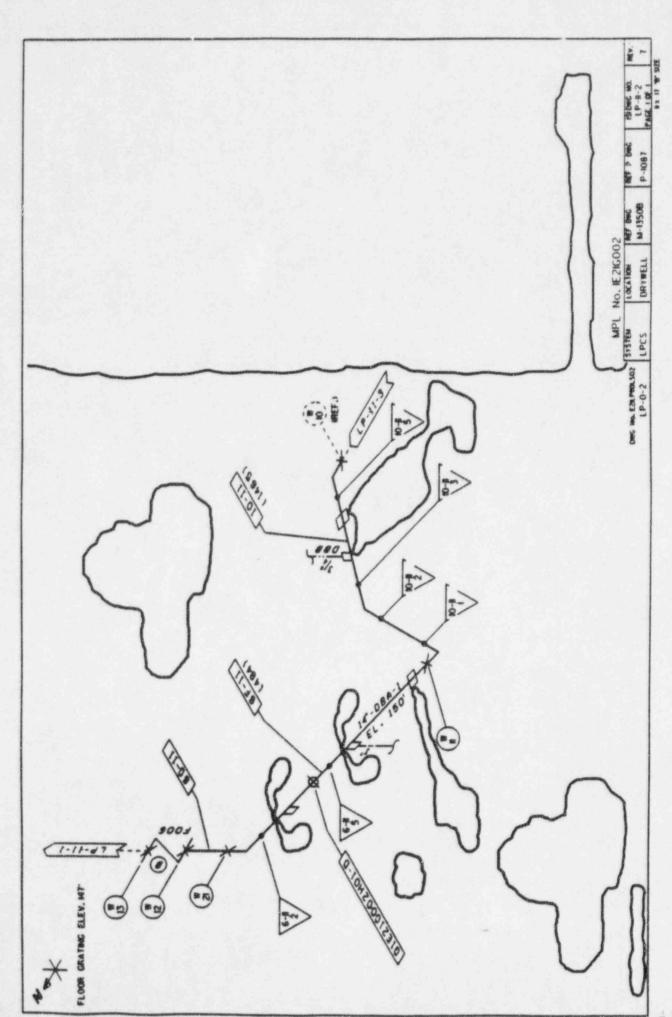




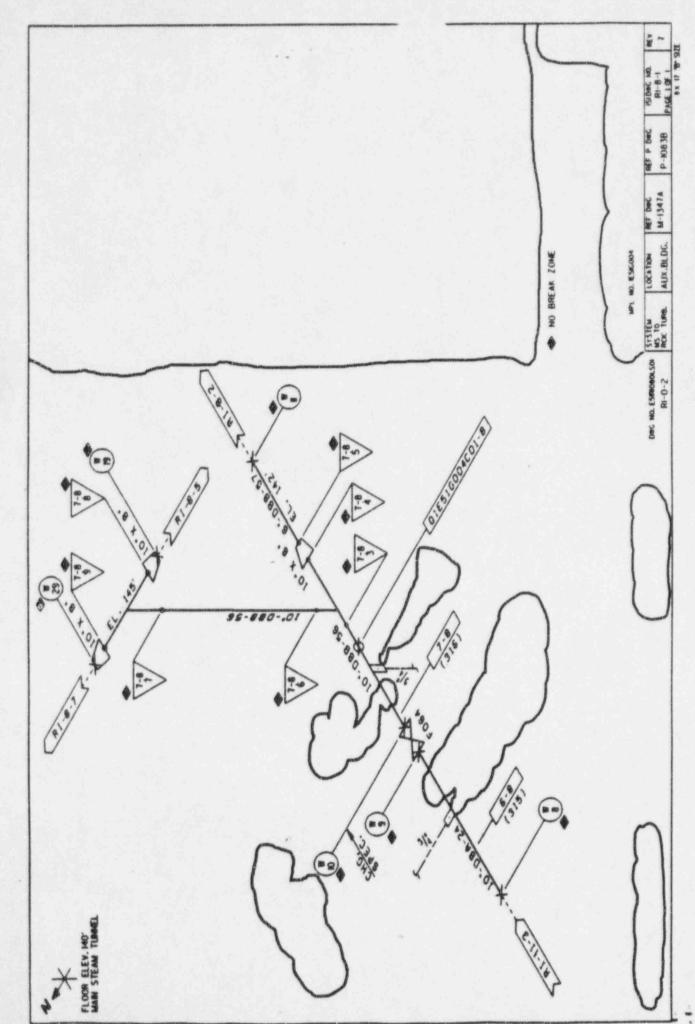
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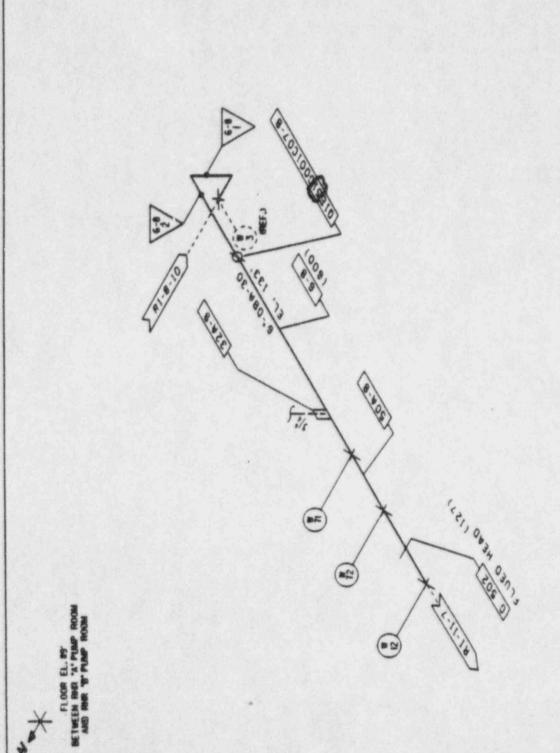






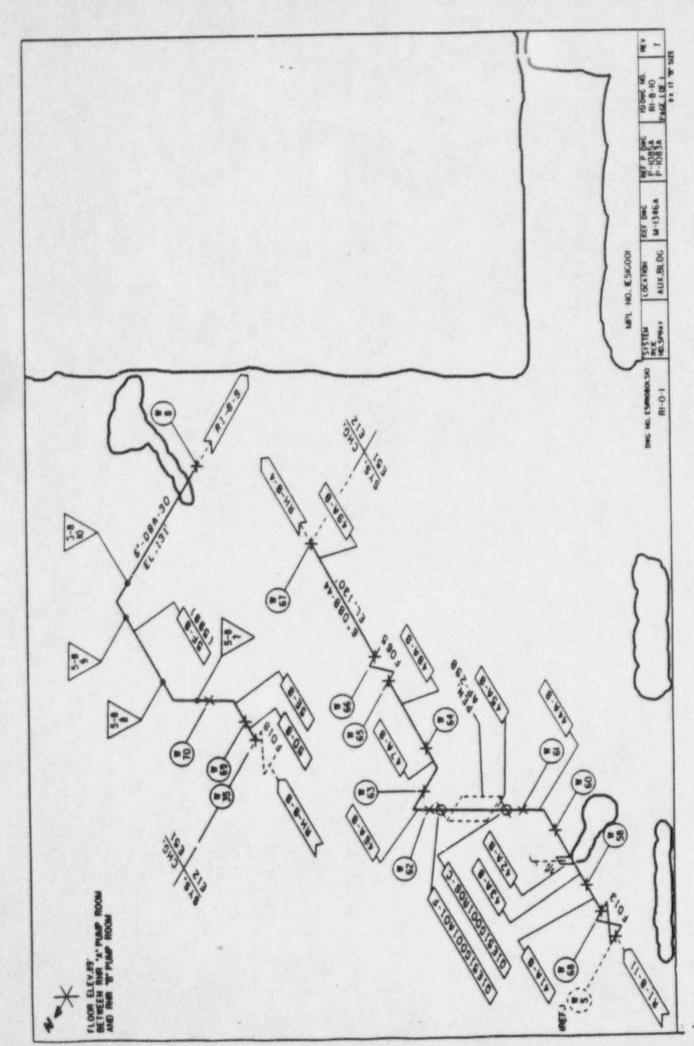
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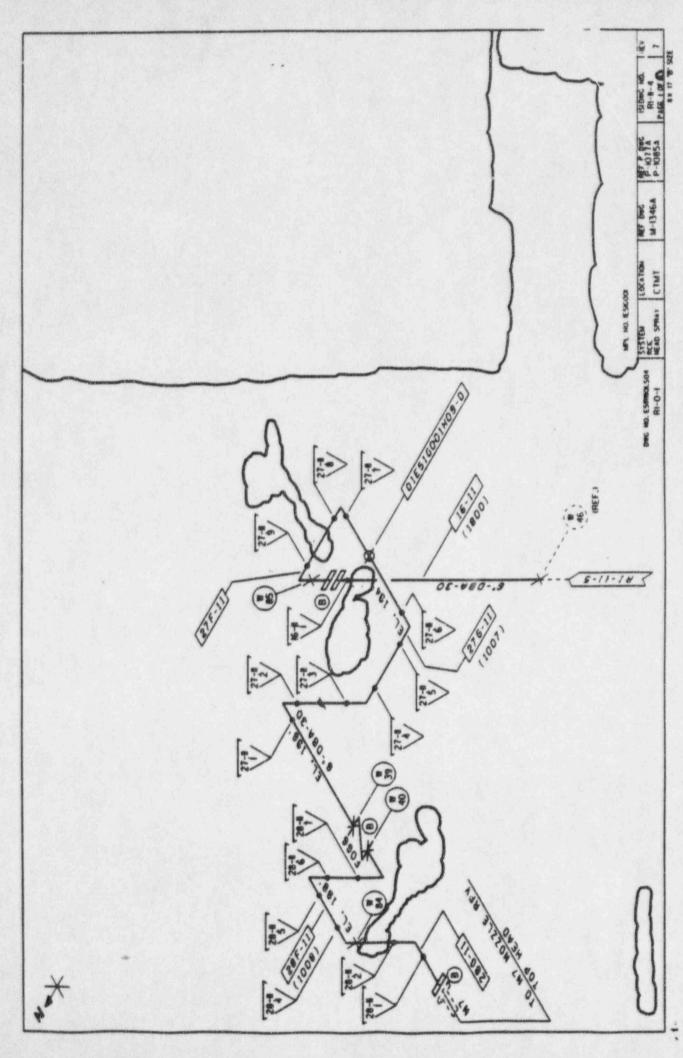


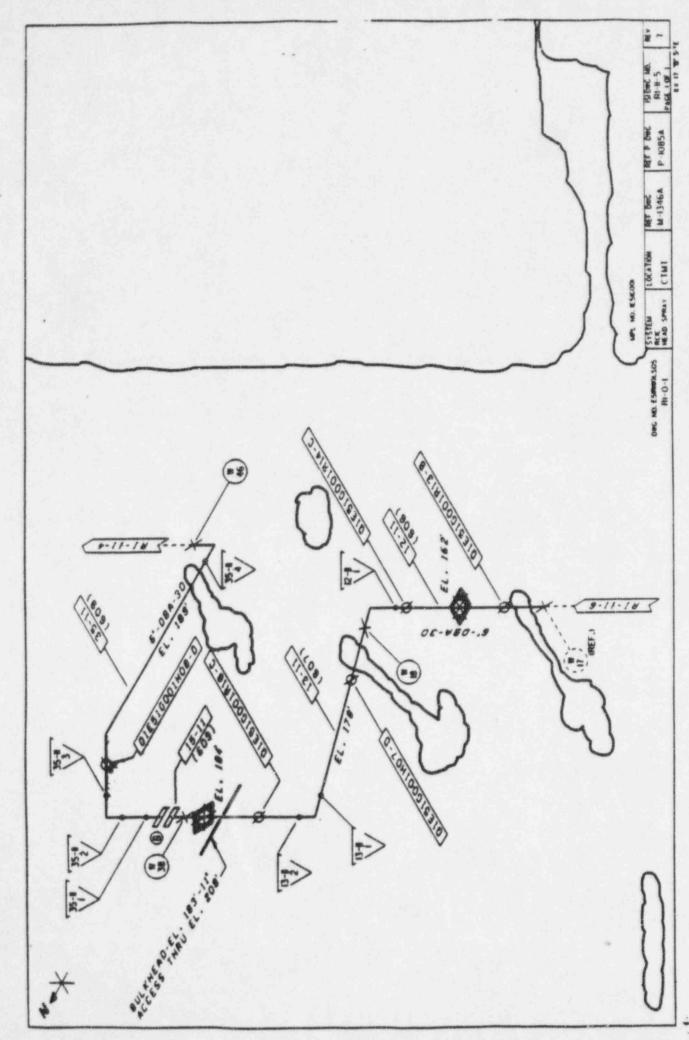


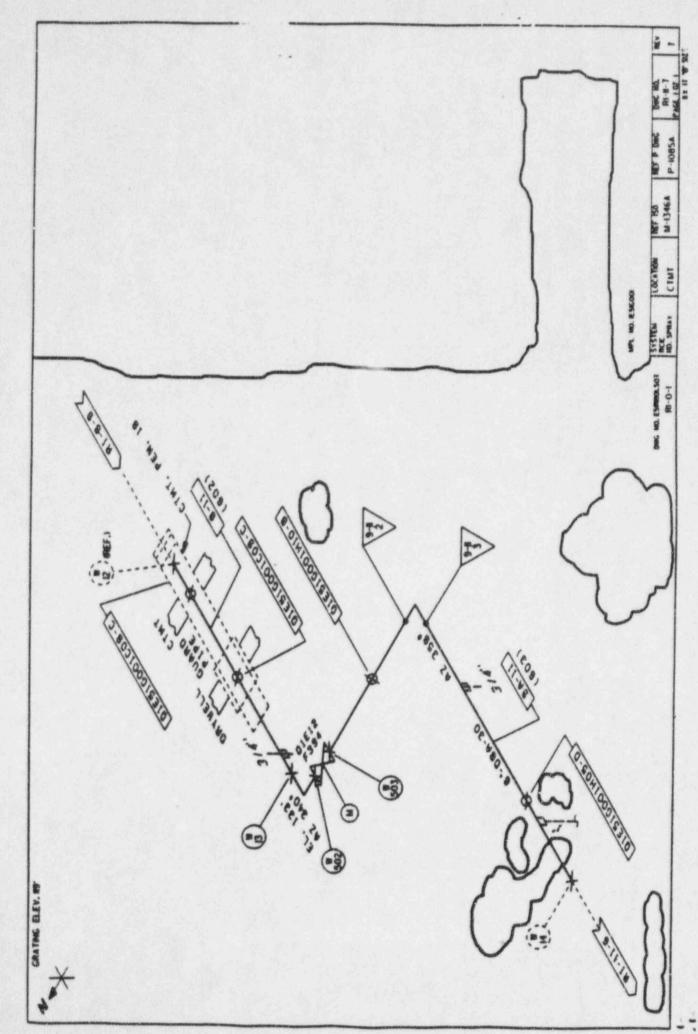
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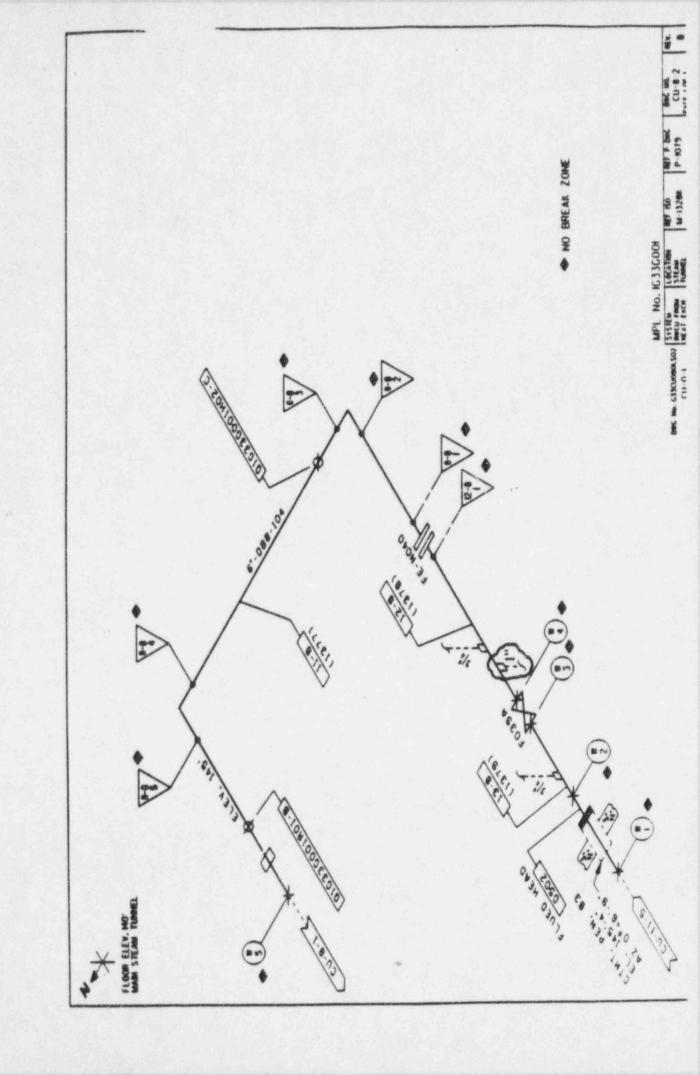
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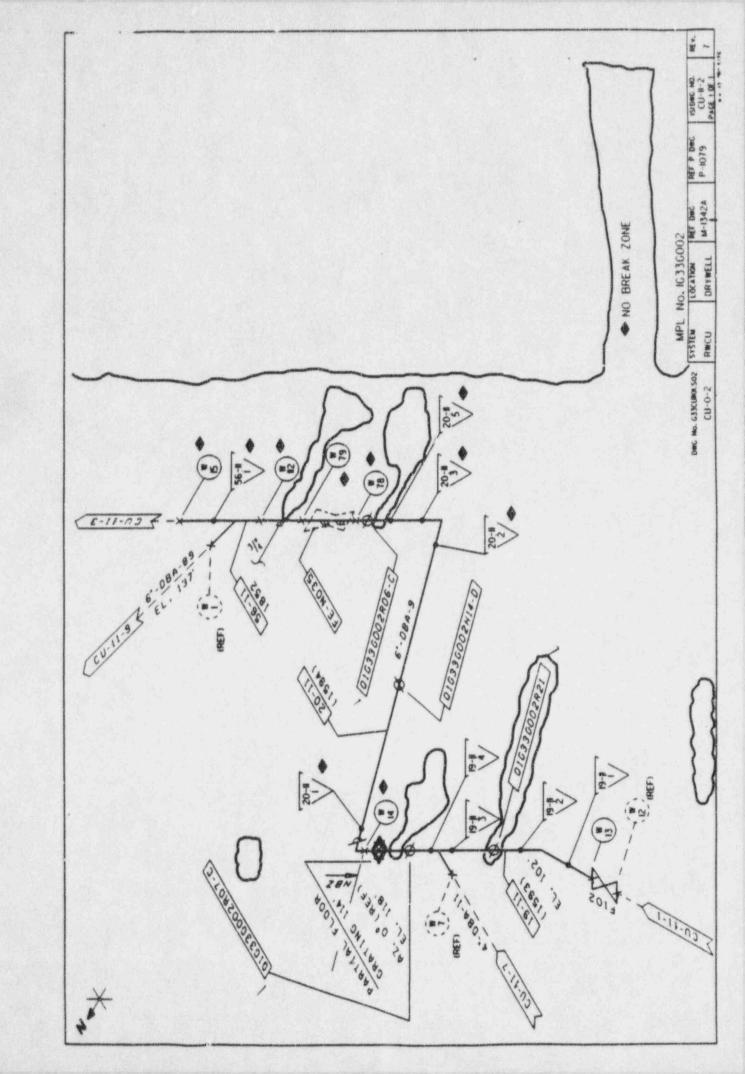


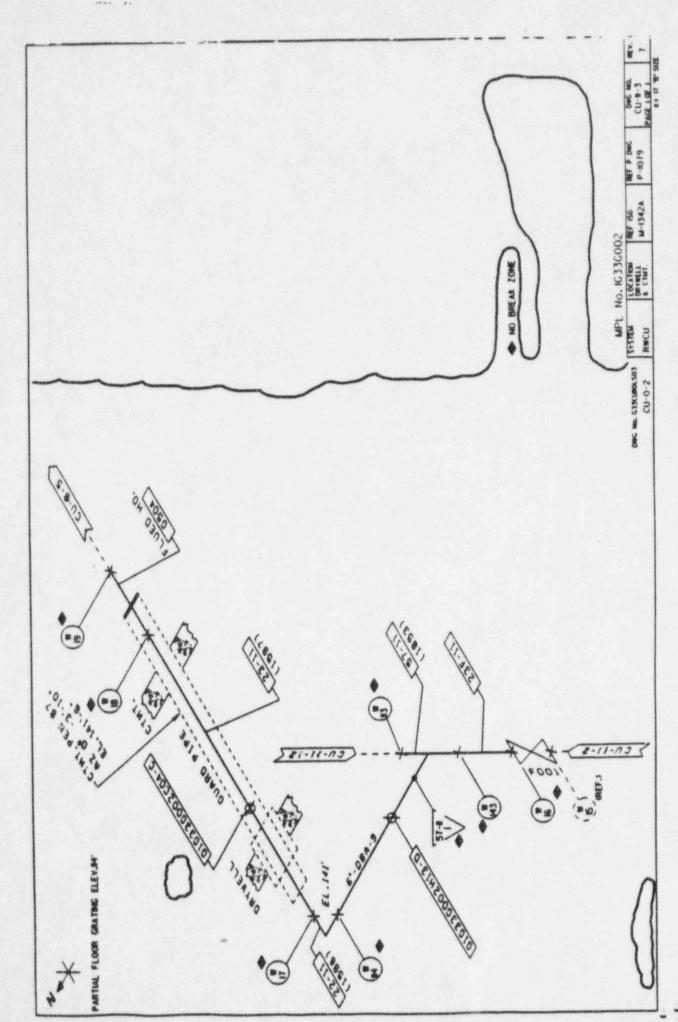


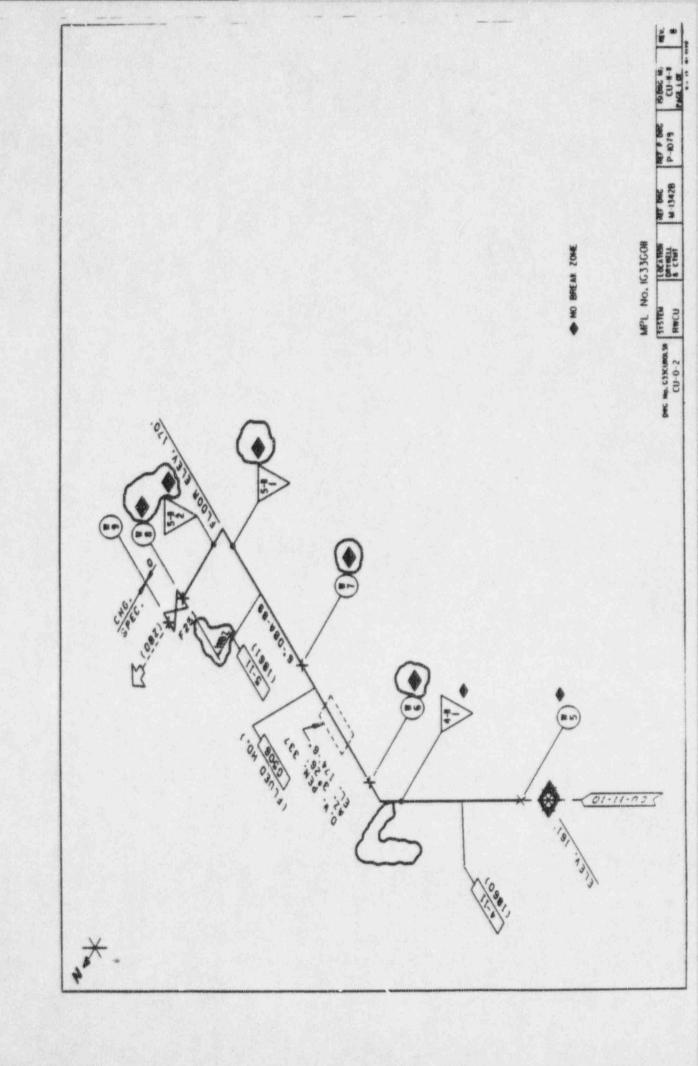


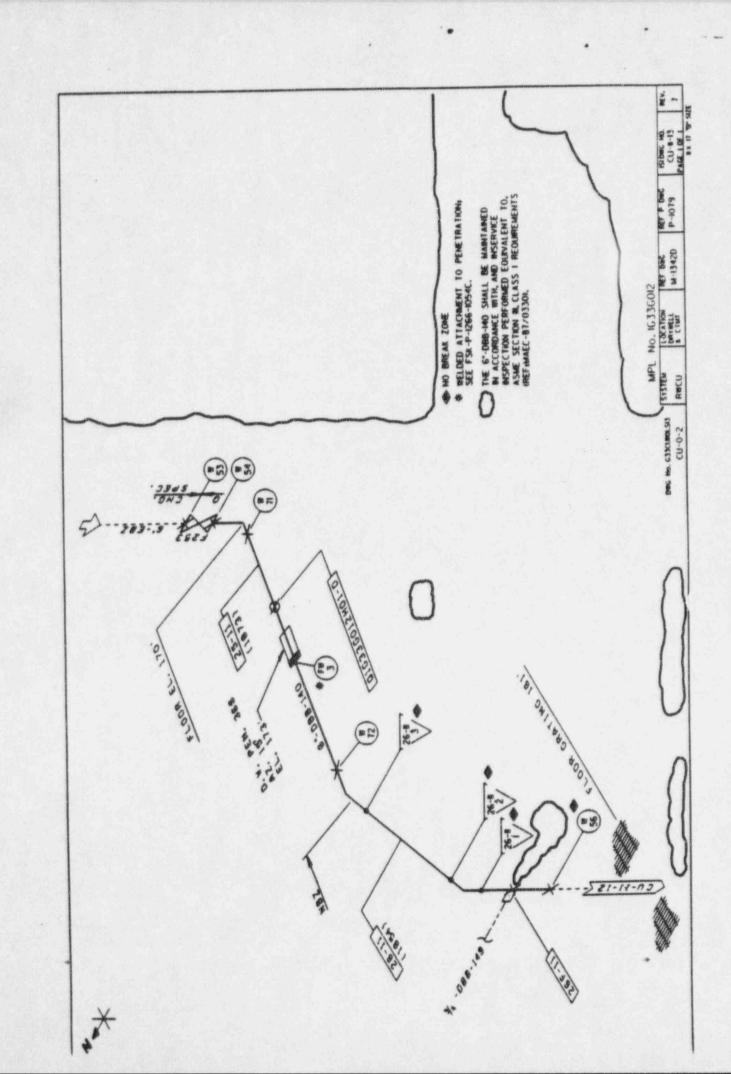


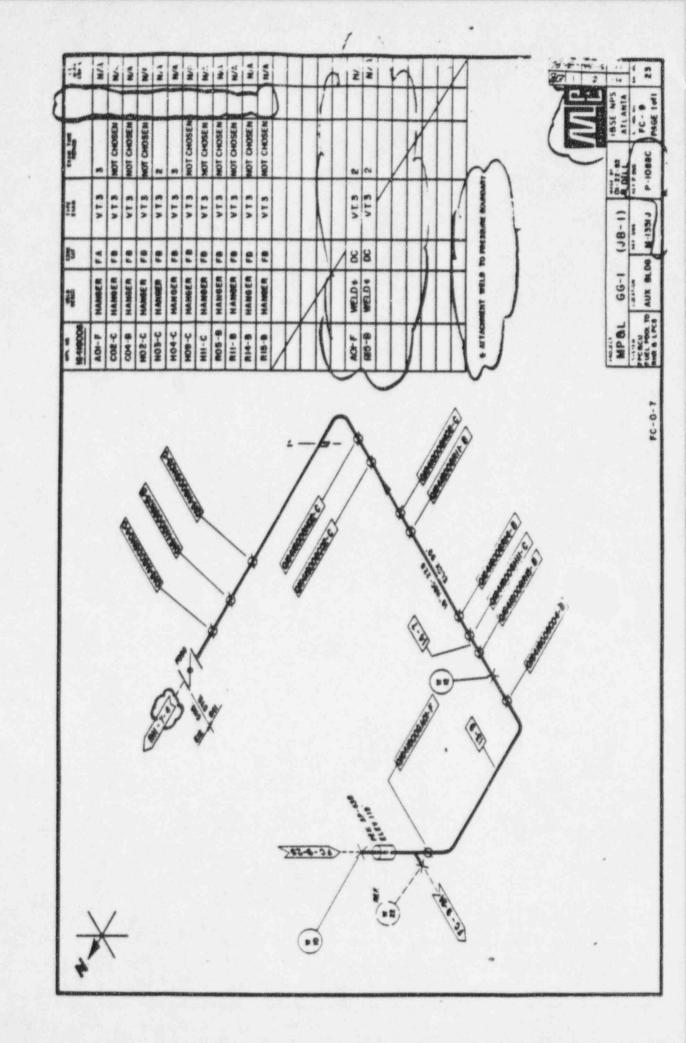






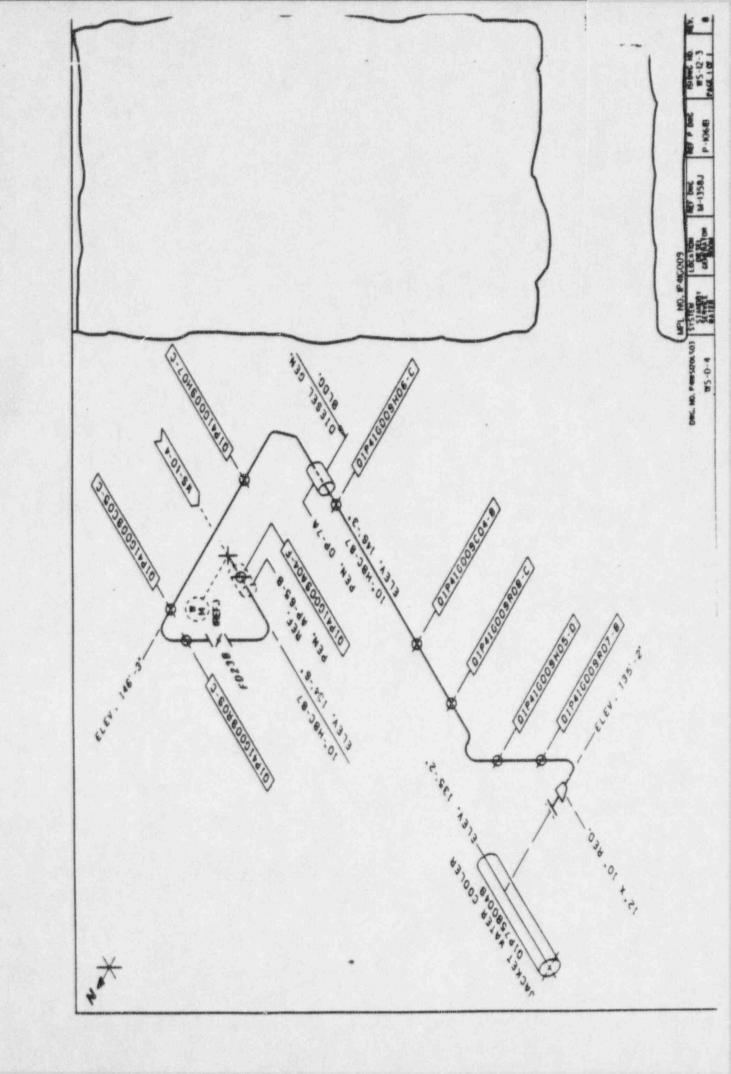


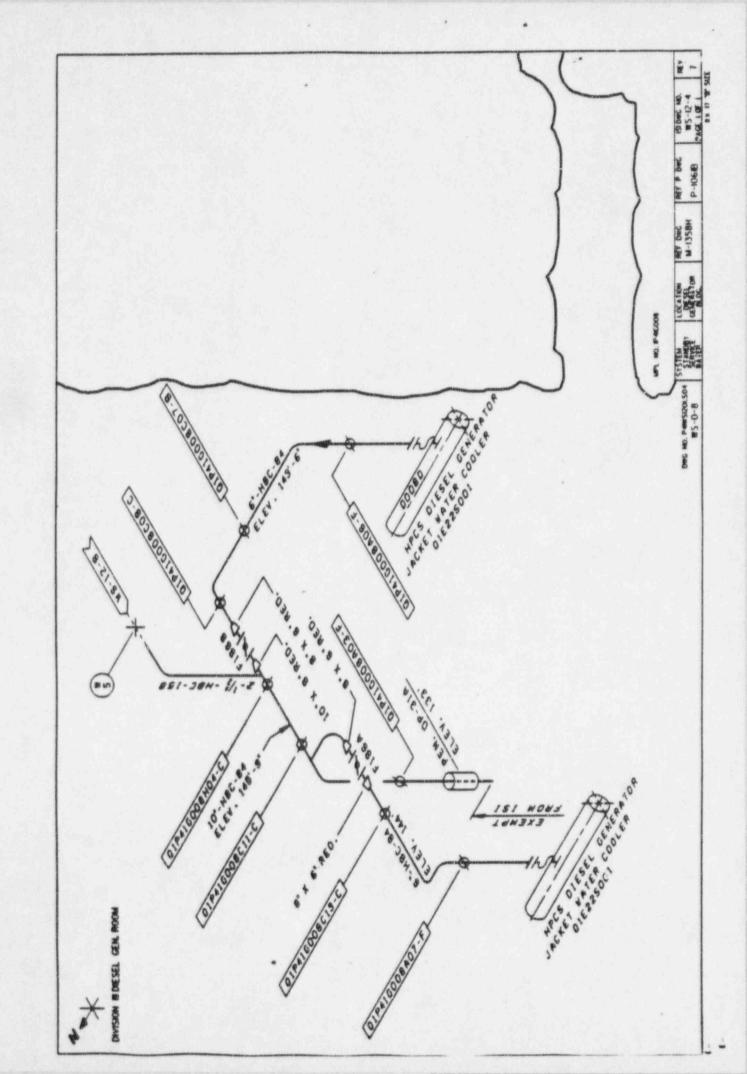


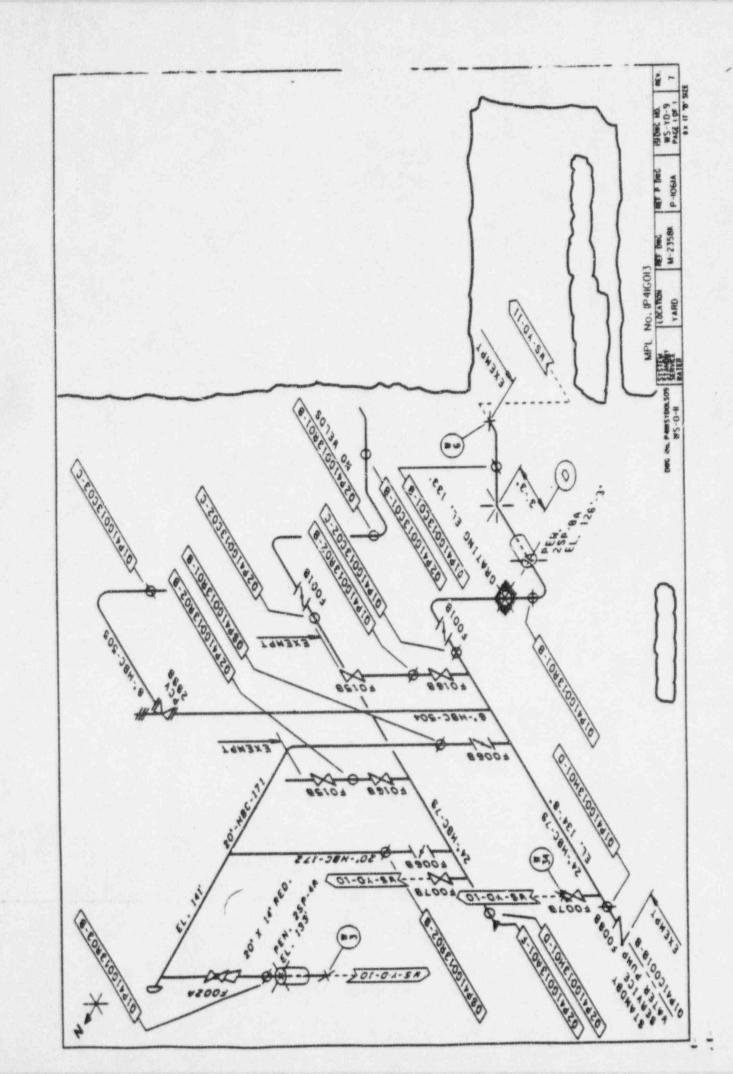


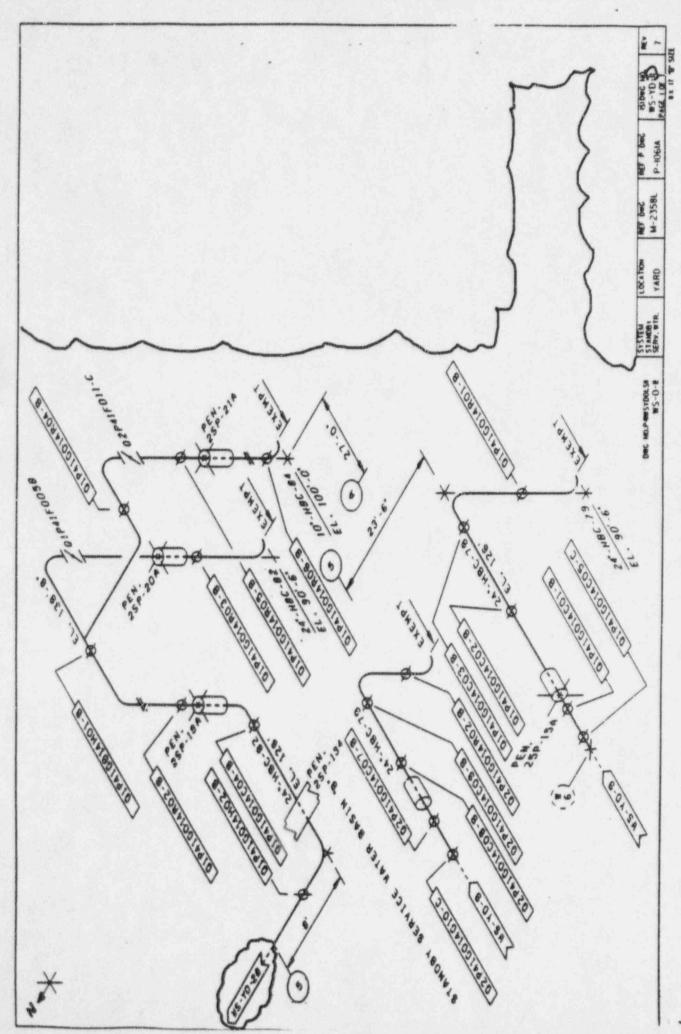
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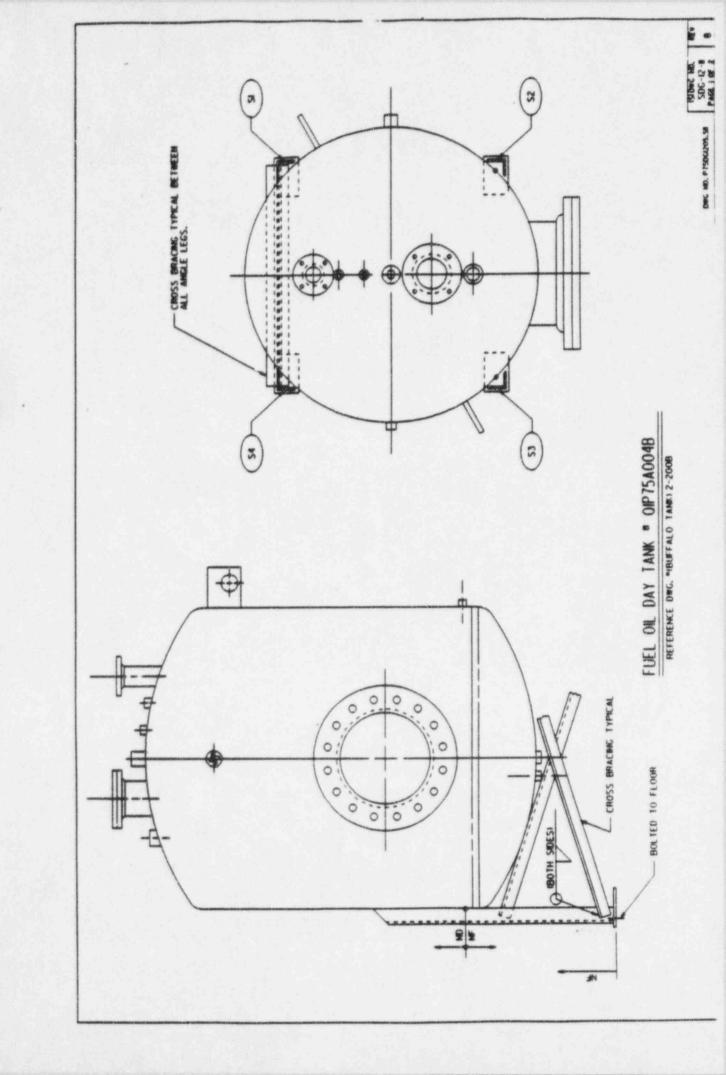
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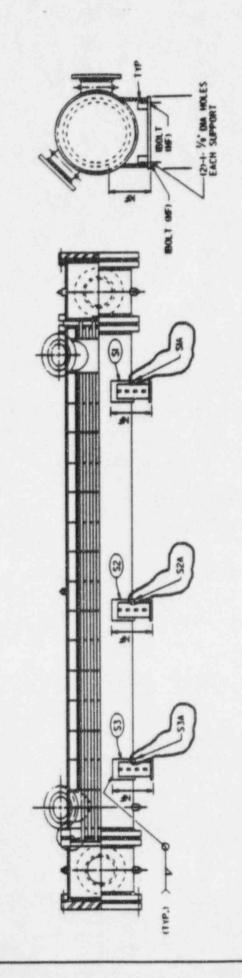




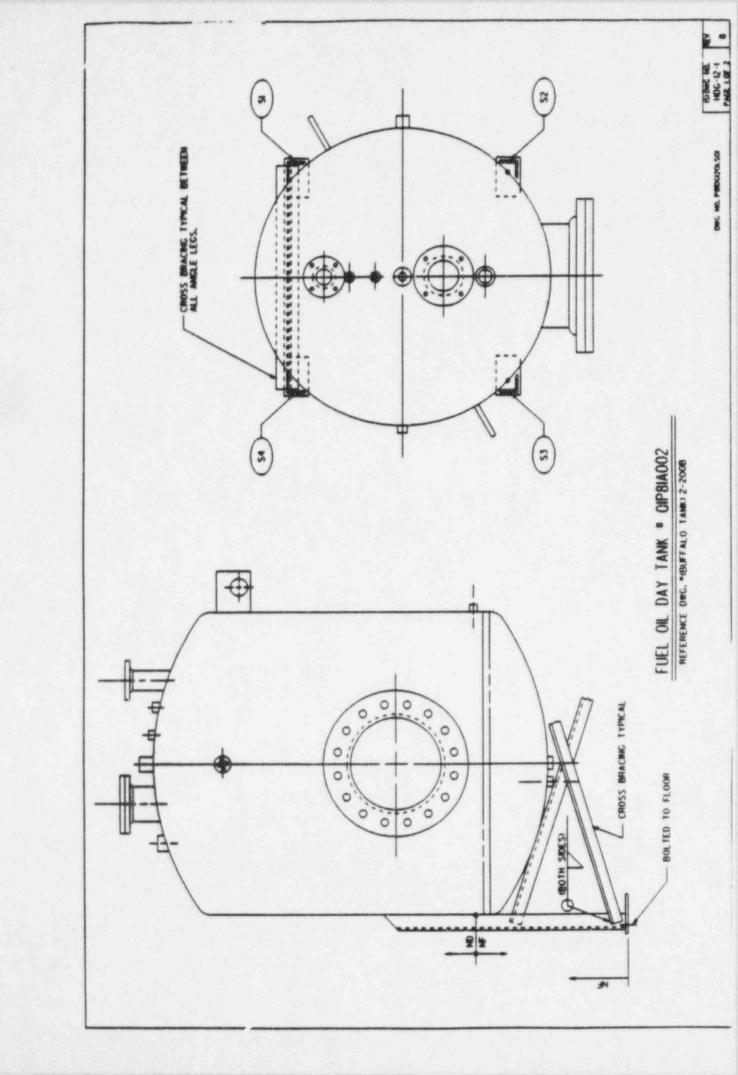




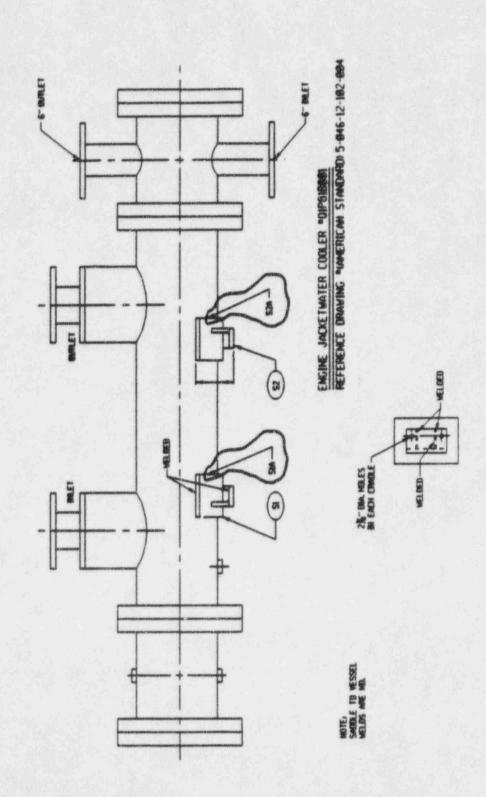
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JACKET WATER COCIER NO. OP 75-BOO4B







INSERVICE INSPECTION SUMMARY REPORT

FOR

GRAND GULF NUCLEAR STATION

SECTION IV

RELIEF REQUEST

RELIEF REQUEST NUMBER	SUBJECT
1-00008	PERIPHERAL CRD's
I-00009	PUMP CASING WELDS
1-00010	LIMITED ULTRASONIC ACCESS FOR PIPING WELDS
I-00013	INSERVICE INSPECTION RPV NOZZLE INNER RADII
I-00015	INSERVICE INSPECTION OF REACTOR PRESSURE VESSEL WELDS

GRAND GULF NUCLEAR STATION INSERVICE INSPECTION TEN YEAR PROGRAM

INSERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUESTS

GRAND GULF NUCLEAR STATION UNIT 1

RELIEF REGUEST NO. I-00008 REVISION 2

PAGE 1 OF 5

OF CONTROL ROD DRIVE AND INCORE HOUSING WELDS & FLANGE BOLTING

I. Component:

Peripheral control rod drive housing welds (tube-totube, tube-to-flange) and bolting located on CRD housings.

II. Code:

These portions of the CRD and in-core housing were designed and fabricated to the ASME Section III, Class 1 requirements. Applicable inservice inspections are to be performed in accordance with ASME Section XI, 1977 Edition through and including Summer 1979 Addenda.

III. Code requirements:

- Welds located in 10% of the peripheral CRD housings require surface examination (dye penetrant) during each ten-year inservice inspection interval in accordance with ASME Section XI, Table IWB-2500-1, Examination Category B-O.
- Pressure retaining bolting for the flange-toflange joints, located on the CRD and incore housings, are required to be visually examined (VT-1) once every ten-year inspection interval in accordance with ASME Section XI, Table IWB-2500-1, Examination Category B-G-2.

IV. Information to support the determination that the code requirements are impractical:

The weld areas and bolting are not accessible for inspection unless the control rod drive (CRD) support structures removed. A 360 degree surface examination cannot be accurately accomplished from the outside, due to interference from the adjacent CRD housings. Inspection of the weld from the

GRAND GULF NUCLEAR STATION UNIT 1

RELIEF REQUEST NO. I-00008 REVISION 2

PAGE 2 OF 5

OF CONTROL ROD DRIVE AND INCORE HOUSING WELDS & FLANGE BOLTING

IV. Information to support the determination that the code requirements are impractical (continued):

inside of the CRD housing would require that the control rod drive mechanism be removed, which could result in damage to the drive. With removal of the drive, a small amount of reactor water would escape to the CRD cavity area, possibly causing contamination of personnel and equipment. The time frame associated with the CRD support structure removal and CRD mechanism would be approximately six (6) man hours per drive. Dosage received by personnel in this interval cannot justify the inspection process to possibly find a fault which could be discovered by excessive leakage in the drywell sump monitored per Operating License Manual (Technical Specification) limits in effect.

V. Specific relief requested:

Permission is requested to exempt from inservice inspection, the peripheral CRD housing welds (tube-to-tube, tube-to-flange), the eight (8) bolts associated with each flange of 193 CRD housings and the four bolts associated with each flange of 58 incore housings.

VI. Reasons why relief should be granted:

Request for exemption from inservice inspection should be granted for the following reasons:

 The peripheral CRD housing welds have been examined by radiography and liquid penetrant methods and have been hydrostatic tested in accordance with ASME Section III code requirements. * 45

INSERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUESTS

GRAND GULF NUCLEAR STATION UNIT 1

RELIEF REQUEST NO. I-00008 REVISION 2

PAGE 3 OF 5

OF CONTROL ROD DRIVE AND INCORE HOUSING WELDS & FLANGE BOLTING

VI. Reason why relief should be granted (continued):

- 2. All incore and CRD housing bolting has been examined in accordance with the requirements of ASME Section III, which exceed the Section XI (VT-1) visual examination requirements.
- The welds and bolting will be subject to a system leakage test (IWB-5221) each refueling outage and a hydrostatic test (IWB-5222) once each ten-year inservice inspection interval per the requirements of ASME Section XI.
- while in operation, the maximum leakage rate, by calculation, will occur at at the peripheral CRD housing tube-to-flange weld. The maximum calculated leak rate is to 681 gpm. By criteria established in Subarticle IWB-1200, "exemptions by make up capacity", the normal make up capability for GGNS is 878 gpm, which exceeds the calculated maximum leakage.
- Leak detection is provided with the loakage detection system, with continuous monitoring in the control room.
- The CRD housing supports would prevent ejection of the housings in case of total failure of the welds or bolts.

GRAND GULF NUCLEAR STATION UNIT 1

RELIEF REQUEST NO. I-00008 REVISION 2

PAGE 4 OF 5

OF CONTROL ROD DRIVE AND INCORE HOUSING WELDS & FLANGE BOLTING

VI. Reasons why relief should be granted (continued):

 Removal of the control rod drive support structure would result in hardships with no compensatory increase in the level of quality and safety.

VII. Alternate testing:

None

NOTE: A similar request for relief from preservice inspection requirements was accepted by NRC in GGNs Safety Evaluation Report, Supplement #2.

VIII. NRC discussion statements:

The following statements, conclusions, recommendations, etc. have been adopted by the NRC and are to be considered part of this request-for-relief's approval.

If it becomes necessary to remove the CRD support structure in conjunction with other maintenance activities, it appears prudent to conduct surface examination of the accessible portion of housing welds and visual examination of the bolting. Correspondingly, if a CRD mechanism were removed for other purposes, volumetric examination of the housing welds should be conducted.

Therefore, relief is recommended as requested provided:

TOPPOST CALL IN THE

INSERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUESTS

GRAND GULF NUCLEAR STATION UNIT 1

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OF CONTROL ROD DRIVE AND INCORE HOUSING WELDS & FLANGE BOLTING

- (a) the Code-required system pressure and hydrostatic tests are performed as required by the Code and
- (b) the Code-required examinations are performed on the accessible areas if the CRD support structure or CRDs are removed for other maintenance activities.
- IX. Implementation of NRC discussion:
- 1. The Code requires 10% of the peripheral CRD housings (5) to be examined in the ten year interval. The total number of housings examined due to accessibility created by maintenance does not need to exceed the required 10%.
- 2. The Code allows the CRD housing examinations to be deferred until the end of the ten year interval. Correspondingly, examinations performed because of access created by maintenance may be deferred to the last scheduled maintenance activity in the ten year interval. Deferral is only permissible if it is assured that at least the required 10% are examined.
- 3. All category B-G-2 bolting shall be examined during maintenance activities that require the removal of the bolting. Deferral of the bolting examination is not permissible.

GRAND GULF NUCLEAR STATION UNIT 1 RELIEF REQUEST I-00009, REVISION 2

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INSERVICE INSPECTION OF PUMP CASING AND ATTACHMENT WELDS

- 4	
- 1	COMPONENT:
- 1	 Component:

Pump casing and attachment welds located within the surrounding concrete pump support encasement for the following pumps (see attached list and sketches):

PUMP	PUMP NO.	SKETCH NO.
Residual Heat Removal Low Pressure Core Spray	1E12C002B 1E21C001	RH-8-12 LP-9-4
High Pressure Core Spray	1E22C001	HP-8-10

II. Code:

The three pumps listed above were designed and fabricated to the ASME Section III, class 2 requirements. Applicable Inservice Inspection is to be preformed in accordance with ASME Section XI, 1977 Edition through and including Summer 1979 Addenda and Code Case N 343.

III. Code Requirements:

Pressure retaining welds, and attachment welds that provide a support function are required to receive a surface examination once every ten-year interval in accordance with ASME Section XI, Table IWC-2500-1 category C-C and C-G.

IV. Information to support the determination that the Code requirements are impractical:

Inaccessible pump casing welds are located where the concrete pump support encasement only allows a 3 inch clearance between the pump casing and the concrete encasement wall (see figure 1 for details of the design). Due to the limited accessibility, it is impractical to surface examine those portions of the welds located within the surrounding concrete pump support encasement. The 1E12C002B and 1E21C001 pumps also have a support integrally welded to the bottom exterior of the pump barrel that rests against the sump floor. The clearance between the floor and the bottom of the barrel is approximately 1 inch preventing sufficient access to perform the surface examination of the 1/2 inch of base material on each side of the attaching weld (see figure 2).

INSERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUEST

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INSERVICE INSPECTION OF PUMP CASING AND ATTACHMENT WELDS

V. Specific relief Requested:

Permission is requested to exempt from inservice inspection the inaccessible portions of the pump casing welds listed on Table 1. Also permission is requested to exempt the base material associated with the support attachment welds from the surface examinations as shown in figure 2.

VI. Reasons why relief should be granted:

Request for exemption should be granted for the following reasons:

- The pump casing welds have been volumetrically examined by radiography and passed in accordance with the ASME Section III. Class 2 requirements.
- The attachment welds were surface examined and accepted in accordance with the requirements of ASME Section III, Class 2 requirements.
- The accessible length of each applicable casing weld will be surface examined in accordance with ASME Class 2 requirements.
- 4. The entire weld volume of each support attachment weld will be surface examined in accordance with ASME Class 2 requirements.
- 5. The failure of these welds, thus leading to failure of the pump, would have no adverse effect on plant safety, as redundant emergency core cooling systems are provided.
- 6. Annunciators (i.e. low suction pressure, discharge pressure abnormal, etc.) are provided in the control room, along with other system indicators, to alert the operators to abnormal operating conditions.
- 7. The systems, including the pumps, are tested per the GGMS Operating License Manual (Technical Specifications) requirements to ensure operability.

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INSERVICE INSPECTION OF PUMP CASING AND ATTACHMENT WELDS

- VI. Reasons why relief should be granted (continued):
- Pumps will be subject to a system pressure test in accordance with ASME Section XI, Class 2 requirements.
- 9. Approximately 82 percent of the welds on the subject pump, which require surface examination, are accessible. Performance of the required examinations on these accessible welds should ensure that generic degradation is not occurring in these pump casing welds.

NOTE: A similar request for relief from preservice inspection of the pump casing welds has been accepted by the NRC in GGNS Safety Evaluation Report, Supplement No. 2.

VII. Alternate Testing:

None

VIII. NRC discussion statement (Revision 2):

The NRC has indicated in their response to the Rev. 2 submittal that the revision is basically a clarification of the existing conditions and the premise for granting relief has not changed. Therefore, the NRC's conditions for the Rev. 1 request-for-relief are still applicable. The following statements, conclusions, recommendations, etc. have been adopted by the NRC and are to be considered part of this request-for-relief's approval.

Since the surface examinations can be conducted from either the external or internal surface of the pump casing, an attempt should be made to examine the portions of the casing welds, inaccessible on the external surface, on an internal surface if the pumps are disassembled for maintenance.

Therefore, relief is recommended as requested provided:

(a) The surface examinations are performed to the maximum extent practical,

INSERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUEST

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-

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INSERVICE INSPECTION OF PUMP CASING AND ATTACHMENT WELDS

VIII. NRC discussion statement (Revision 2, continued):

- (b) the code-required system pressure tests are performed, and
- (c) the surface examinations are completed from the internal surface if a pump is disassembled for maintenance.

NRC additional discussion for revision 1 to the relief request:

The staff concludes that the limited surface examination of the support-to-casing welds for the residual heat removal pump and the low pressure core spray pump will provide the necessary assurance of structural reliability because although 1/2 inch of base metal on each side of the weld cannot be examined, 100% of the weld metal will be examined. In addition, if the pumps are disassembled for maintenance, surface examinations will be completed from the internal surface. The staff also concludes that compliance with the specific requirements of Section XI would result in hardship or unusual difficulties without a compensating increase in the level of quality and safety. Therefore, relief is granted as requested.

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TABLE 1

LIST OF PUMP WELDS

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E12 - RHR PUMP "B" CASING

Welds Surfaces That Shall Be Examined

 DH-1
 DH-4
 DH-7
 S8-4

 DH-2
 DH-5
 DH-25
 S8-5

 DH-3
 DH-6
 S8-3
 S8-6

Welds That Can Be Partially Examined

Welds that cannot be examined

58-7

SB-2 (18" accessible, 54" inaccessible)

S8-1 (inaccessible)

Attachment welds that can be partially examined

SB-12 (see figure 2 for details of limitation)

EZ1 - LPCS PUMP CASING

Welds Surfaces That Shell Be Examined

 DH-1
 DH-4
 DH-7
 SB-4
 SB-7

 DH-2
 DH-5
 DH-27
 SB-5

 DH-3
 DH-6
 SB-3
 SB-6

Welds That Can be Partially Examined

Welds That Cannot Be Examined

SB-2 (3" accessible, 69" inaccessible)

S8-1 (inaccessible)

Attachment Welds That Can Be Partially Exemined

SB-12 (see figure 2 for details of limitation)

EZZ-HPCS PUMP CASING

Welds Surfaces That Shall Be Examined

 DH-1
 DH-4
 DH-7
 SB-5

 DH-2
 DH-5
 DH-19
 SB-6

 DH-3
 DH-6
 SH-28
 SB-7

Welds That Can Be Partially Examined

SB-4 (68" accessible, 4" inaccessible) SB-1 (inaccessible)

SB-2 (inaccessible)

20.5 (Indecess in ia)

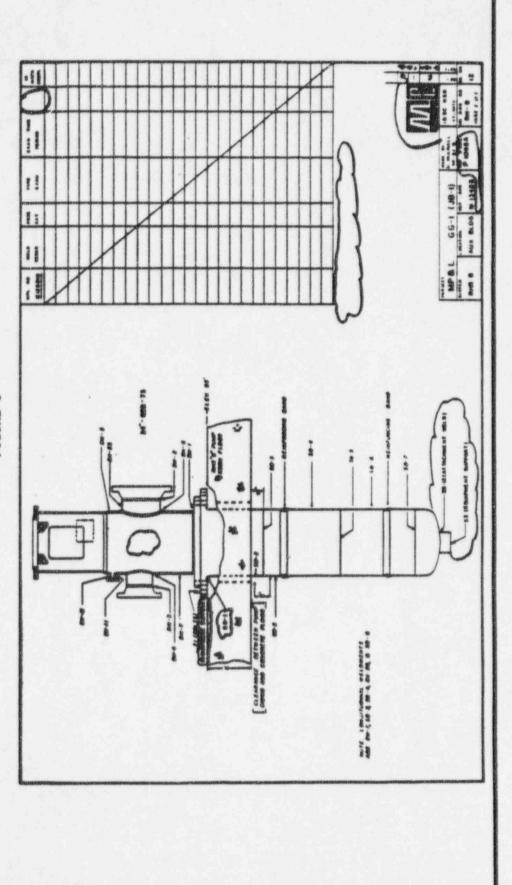
Welds That Cannot Be Examined

S8-3 (inaccessible)

IMSERVICE IMSPECTION REQUIREMENTS
BECTION 4
RELIEF REQUESTS

Relief Request MO. 1-00009

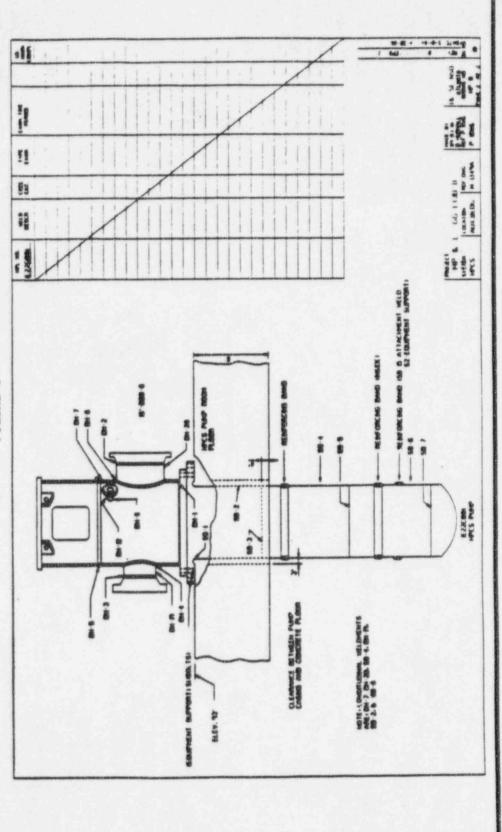
FIGURE 1



IMSERVICE IMSPECTION REQUIREMENTS
SECTION 4
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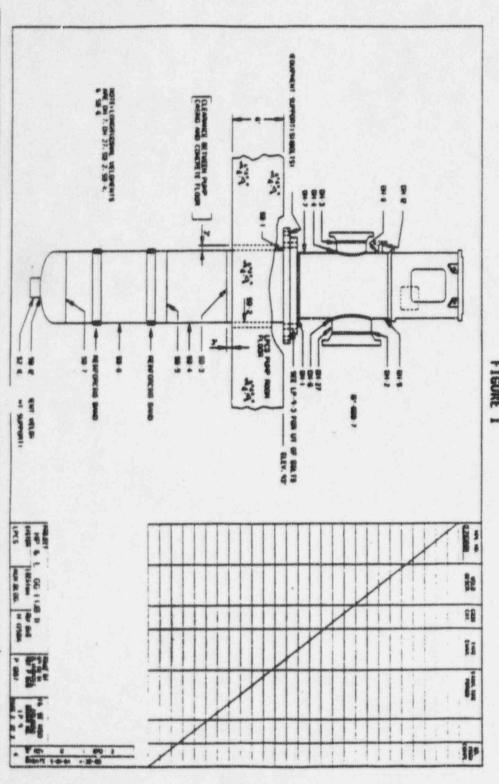
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FIGURE 1



Relief Request NO. 1-00009

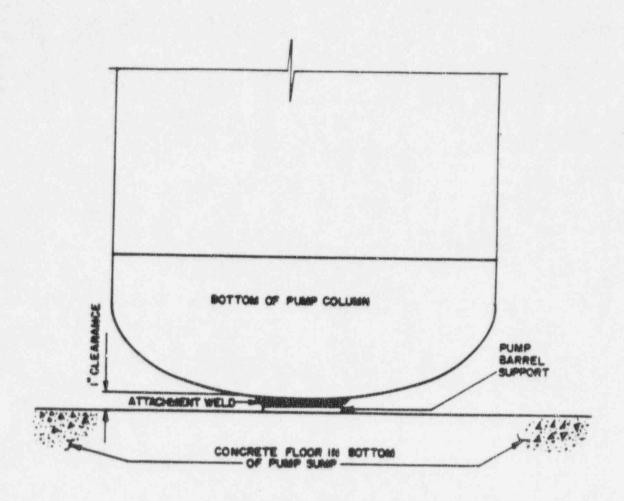
FIGURE 1



GRAND SULF MUDIEUR ST. TICH : INSERVICE INSPECTION TEN YEAR PROGRAM

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FIGURE 2



ATTACHMENT WELD LIMITATIONS PUMPS IEIZCOOLS AND IEZICOOL

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RELIEF REQUEST I-00010, REVISION 5

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INSERVICE EXAMINATION OF PRESSURE RETAINING WELDS

I. Component:

Inaccessible portions of ASME Section III, Class 1 and 2 pressure retaining and integral attachment piping welds listed in table 1 (see attached).

II. Code:

These portions of the pressure retaining and integral attachment piping welds were designed and fabricated to ASME Section III, Class 1 and Class 2 requirements. Applicable inservice inspections are to be performed in accordance with the ASME Section XI, 1977 Edition, through and including the Summer 1979 Addenda.

III. Code Requirements:

Class 1 and Class 2 pressure retaining piping welds are required to be volumetrically and surface examined, essentially 100% of the weld, once every ten year interval in accordance with ASME Section XI, Table IWB-2500-1, Category B-J, Table IWC-2500-1, Category C-F. The Class 1 integral attachment welds depicted in Table 1 are required to be surface examined once each ten year interval in accordance with ASME Section XI, Table IWB-2500-1, Category B-K-1.

IV. Information to support the determination that the Code requirements are impractical:

Portions of welds that were preservice examined have physical obstructions due to design. Due to this limited accessibility, it is impractical to perform the surface and volumetric examination for 100% of the required examination volume as indicated for the welds listed in Table 1.

V. Specific Relief Requested: Permission is requested to perform the Code required examinations to the maximum practical extent as described in Table 1.

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INSERVICE EXAMINATION OF PRESSURE RETAINING WELDS

VI. Reasons why relief should be granted:

Request for permission to limit the code required examination to the accessible areas should be granted for the following reasons:

- The inaccessible portions of listed pressure retaining welds were examined by radiography, passed in accordance with ASME Section III, Class 1 and 2 requirements.
- 2. The inaccessible portions of the pressure retaining and integral attachment welds were surface examined (magnetic particle or liquid penetrant), passed in accordance with ASME III and/or XI, Class 1 and Class 2 requirements.
- The inaccessible portions of listed piping welds will be subject to a system leakage test after each refueling outage for Class 1, and each inspection period for Class 2 in accordance with ASME Section XI requirements.
- The inaccessible portions of listed piping welds will be subject to a system pressure test each inspection interval in accordance with ASME Section XI, Class 1 and 2 requirements.
- s. Accessible portions of listed welds will be volumetrically and surface examined each inspection interval in accordance with ASME Section XI. Should indications be found, an engineering evaluation will be made to determine if the inaccessible portions of the listed welds have been affected.

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INSERVICE EXAMINATION OF PRESSURE RETAINING WELDS

- VI. should be granted (continued):
- Reasons why relief 6. Leak detection is provided, by way of the leakage detection system with continuous monitoring, for the RHR, RCIC, MS, RWCU, RECIRC and FW systems.
 - The failure of any one of these 7. pressure retaining piping welds would have no adverse effect or reduction in the margin of plant safety since there is isolation capability and/or shut down capability as part of the plant design. The design analysis bounds the limiting fault conditions for line breaks in and outside of containment.
 - The calculated maximum piping 8. stresses and usage factor at the integral attachments on the piping, including consideration of the local pipe wall stresses, have been determined in the Class 1 Stress Report and are equal to the following:
 - Primary plus secondary (equation 10); 32,775 psi (1.72 S.),
 - usage factor is 0.0442. b)

Circumferential and longitudinal welds in piping with stress levels below 2.4 S, and usage factors below 0.4 are excluded from ISI examinations, in accordance with Table IWB-2500-1 Category B-J.

Examinations at GGNS of category B-J, B-K-1 and C-F welds have not identified any flaws or evidence of service induced degradation.

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INSERVICE EXAMINATION OF PRESSURE RETAINING WELDS

VII. Alternate testing:

The applicable welds will be examined to the maximum extent practical as determined by the extent of the specific limitation. Each weld will be subjected to a volumetric or surface examination as required by Tables IWB and IWC 2500-1

VIII. NRC summary statement (Rev. 5):

"The staff has reviewed the submittal which supports the licensee's conclusion that the Section XI ASME Code requirements are impractical for the piping welds identified in Table due 1.0 1 inaccessibility of portions of the welds. Compliance to the Code requirements would require the redesign and refabrication of the piping systems to eliminate physical obstructions due to pipe supports, pipe fittings, and components. The proposed volumetric alternative limited examinations, along with the Section XI ASME Code surface examinations and the hydrostatic tests, ensure an acceptable level of inservice structural integrity. The staff concludes that relief should be granted as requested in Relief Request No. I-00010, Revision 5, due to physical inaccessibility of portions of the identified welds.

IF ERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUEST

GRAND GULF NUCLEAR STATION UNIT 1 RELIEF REQUEST NO. I-00010 REVISION 5

TABLE 1

38 M3	SYSTEM	9 9	8 8	3718	COMPONENT	EXAMINABLE VOLUMETRIC AREA	TYPE	EXAMINABLE SUBFACE AREA	CLASS	NELD TYPE	REASON FOR
-	213	6014-FV-44	RH-8-8	1.9	VALVE TO ELBOW	\$58	1	100X	-	CIRC	ELBOW RADIUS
2	128	8/1-8-13-69	MS-11-8	282	ELBOW SEAM	38%	-	38%	-	1,046	PIPE RESTRAINT
3.	£51	6064-8-8-1	RI-8-2		ELBON TO ELBON	70%	-	100%	2	CIRC	ELBOW RADIUS
	821	611-01-8-1/8	MS-11-11	28"	ELBON SEAM	36%	-	36%	-	1,046	PIPE RESTRAINT
5	129	68-A1-8-L/8	MS-11-2	_92	ELBOW SEAM	38%	-	38%	-	1,0%6	PIPE RESTRAINT
9	821	6030-FW-23	FW-8-2	24"	VALVE TO PIPE	388	-	100X	-	CIRC	SOCK -0-1ET
7	821	6030-FW-36	FW-8-4	24"	VALVE TO PIPE	93%	-	10ex	-	CIRC	S0CK-0-1£T
	129	6026-FW-17	FN-11-7	24"	331 O1 3d1d	93%	-	100%	-	CIRC	S0CK-0-1ET
0	621	6001-W4	MS-11-3	_92	VALVE TO PIPE	823	-	100%	-	CIRC	PIPE RESTRAIRT
10	821	6001-W4	MS-11-9	82	WALVE TO ELBOW	82%	-	100%	-	CIRC	PIPE RESTRAINT
=	821	69-CI-8-1/A	MS-11-8	28"	ELBOW SEAM	38%	-	38%	-	1.046	PIPE RESTRAINT
DELETED											

"Under the rules of IMC-5216(a), this weld is not subject to system hydrostatic testing. Item 4 under "Reasons why relief should be granted" does not apply to this weld.

INSERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUEST

GRAND GULF NUCLEAR STATION UNIT 1 RELIEF REQUEST NO. I-00010 REVISION 5

TABLE 1

ITEN NO	SYSTEM	MELD MO	ISO 80	PIPE	COMPONENT	EXAMINABLE VOLUMETRIC AREA	TYPE	EXAMINABLE SURFACE AREA	CLASS	MELD	REASON FOR LIMITATIONS
13*	£51	6004-7-8-4	RI-8-1	10"	REDUCER TO TEE	71%	T	100X	2	CIRC	TEE
14*	E51	6004-7-8-9	RI-8-1	10"	REDUCER TO TEE	71%	T	100%	2	CIRC	TEE
15*	£51	6004-7-8-8	R1-0-1	10"	REDUCER TO TEE	71%	T	100X	2	CIRC	TEE
16	833	6024-92	RR-11-19	4"	ELBOW TO TEE	62%	T	100%	1	CIRC	TEE
17	633	6002-W179	CU-8-7	4"	ELBOW TO FITT.	Six	1	RA	1	CIRC	ELBOW RADIUS
18	821	611-01-8-L/A	MS-11-11	28"	ELBON SEAM	38X	Ţ	38%	1	LONG	PIPE RESTRAINT
19	821	6001-W9	MS-11-12	28"	VALVE TO PIPE	82X	T	100%	1	CIRC	PIPE RESTRAINT
20	821	68-A1-8-L/A	MS-11-2	28"	ELBOH SEAM	38%	1	38%	1	LONG	PIPE RESTRAINT
21*	£51	6001-W1	RI-8-12	6"	WALVE TO ELBOW	73%	T	100%	2	CIRC	ELBOW RAGIUS
22	E51	6001-W40	RI-11-4	6"	VALVE TO ELBOW	73%	1	100%	1	CIRC	ELBOW RADIUS
23	833	6001-W5	RR-11-2	24"	ELBOW TO PUMP	73% see note 1	T	100%	1	CIRC	PUMP
24	833	6001-W6	RR-11-2	24"	PIPE TO PUMP	58% see note i	T	100%	1	CIRC	PLINP

"Under the rules of IMC-5210(a), this weld is not subject to system hydrostatic testing. Item 4 under "Reasons why relief should be granted" does not apply to this weld.

INSERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUEST

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17EH MO	SYSTEM	e Mile	051	3218	COMPONENT	EXAMINABLE VOLUMETRIC AREA	TYPE	EKANTHABLE SURFACE AREA	CLASS	WELD	REASON FOR
53	833	89-1009	RR-11-3	24"	WALVE TO PIPE	50% see note 2	-	100X	-	CIRC	3A TVA
5.6	833	828-1009	88-11-8	24"	ELBON TO PLAR	62% see note i	-	1001	1	CIRC	PUMP
27	833	62A-1003	88-11-9	-92	PLASE TO PIPE	61% see note i	-	100X	-	CIRC	PLESS
82	633	1009-131	RR-11-10	24"	VALVE TO PIPE	50% see note 182	-	100X	-	CIRC	NAL VE
58	833	65-81-8	RR-11-9	4"/24"	SWEEP TO PIPE	58% see note 1	-	100X		BRANCH	SWEEP-0-LET
30	633	3-18-59	RR-11-9	4"/24"	SWEEP TO PIPE	63% see note 1	-	100X	-	ВВАВСН	137-0-d3345
31	633	6023-W37	RR-11-15	202	TEE TO PIPE	65% see note 1	-	100%	-	CIRC	TEE
32	833	6024-148	RR-11-16	49	PIPE TO SMEEP	50% see note 2	-	1001	-	CIRC	SWEEP-O-LET
33	833	6024-W27	RR-11-17		PIPE TO SMEEP	50% are note 2	-	100%	-	CIRC	SWEEP-0-LET
34	833	1-18-019	5R-11-11	12"/16"	SMEEP TO PIPE	50% see note 3		100%	-	ВКАКСН	SWEEP-O-LET
35	833	610-81-K	RR-11-11	12"/18"	3414 DI 43345	50% see note 3	•	1003	-	BRANCH	SMEEP-0-1ET
36	833	610-81-3	88-11-11	12"/16"	34EEP TO P1PE	50% see note 3	Q.	100%	-	BRANCH	131-0-4334S

INSERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUEST

GRAND GULF NUCLEAR STATION UNIT 1 RELIEF REQUEST NO. I-00010 REVISION 5

11EN NO	SYSTEM	619 80	8 8	3718	COMPONENT	EXANTHABLE WOLLINE TRIC AREA	TYPE	EXANT MANELE SURFACE AREA	CLASS	WELD TYPE	REASON FOR LIMITATIONS
'n	833	H-18-019	RR-11-11	12"/16"	SHEEP TO PIPE	SOE see note 3	0.	1001	-	BRANCH	SMEEP-0-LET
38	833	610-81-6	BR-11-11	12"/16"	SMEEP TO PIPE	50% see note 3		100%	-	BRABCH	131-0-d334S
39	833	610-81-6	RR-11-11	12"/16"	SAEEP TO PIPE	50% see note 3		100%	-	BRANCH	T31-0-433MS
40	833	6061-V34	RR-11-11	24"	PIPE TO CROSS	50% see note 3	•	1001		CIRC	CROSS
19	833	610-81-A	RR-11-11	18"	PIPE TO CROSS	50% see note 3		100%	-	CIRC	CROSS
42	833	610-81-8	RR-11-11	.91	PIPE TO CROSS	50% see note 3	۵	100%		CIRC	CROSS
43	821	68-A1-C	MS-11-2	8"/28"	SMEEP TO PIPE	100%	-	382	-	SRAHCH	PIPE SUPPORT
*	821	S026-W36	FW-11-1	24"	PIPE TO VALVE	35K	-	1001	-	CIRC	PIPE SUPPORT
45	821	GB-AI-L,N,N,P	MS-11-2	-82	1 UGS TO PIPE	B/A	8/A	(93	-	INT ATT	PIPE RESTRAIRT
46	821	610-81-L,M,N,P	MS-11-5	282	LUES TO PIPE	N/A	R/A	16k	-	INT ATT	PIPE RESTRAINT
47	821	68-C1-L,M,M,P	MS-11-8	28"	LUGS TO PIPE	N/A	N/N	18X		INT ATT	PIPE RESTRAINT
44	821	611-51-1. R. N.P	MS-11-11	28"	1.065 TO PIPE	N/A	#/A	369	-	INI AII	PIPE RESTRAIRT

INSERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUEST

GRAND GULF NUCLEAR STATION UNIT 1 RELIEF REQUEST NO. I-00010 REVISION 5

SYSTEM	WELD NO	38	SIZE	COMPONENT	EXANTINABLE WILLINETRIC AREA	TYPE	EXAMINABLE SURFACE AREA	CLASS	WELD	REASON FOR
833	6001927	BR-11-9	.42	PIPE TO VALVE	50% see note 1	1	100%	-	CIRC	AA! VE
833	6001133	BR-11-19	24"	WALVE TO PIPE	50% see note 1	-	100X	-	CIRC	NALVE
833	610-A1-A	94-11-4	.91	CROSS TO PIPE	50% see note 3		100%	-	CIRC	CROSS
833	610-A1-8	88-11-4	18.	CROSS TO PIPE	50% see note 3		100X	-	CIRC	CROSS
833	96-81-C	86-11-8	42/_\$	PIPE TO SAEEP	50% see note 1	-	100%	-	BRANCH	SMEEP
833	610-A1-F	88-11-4	167/12	PIPE TO SWEEP	50% see note 3		100X	-	BRAKCH	SMEEP
833	610-A1-6	RR-11-4	16-/12-	PIPE TO SHEEP	50% see note 3	•	100X	-	BRANCH	SMEE
833	610-A1-N	88-11-4	-21/_91	PIPE TO SMEEP	SOE see note 3	•	100X	-	ВЯАМСН	SMEEP
833	G10-A1-J	88-11-4	_21/_91	PIPE TO SMEEP	50% see note 3	•	100%		BRANCH	SWEEP
833	610-A1-K	PR-11-4	16"/12"	PIPE TO SACEP	50% age note 3	•	100%	-	BRANCH	SMEEP
833	610-A1-L	88-11-4	16"/12"	PIPE TO SWEEP	50% see note 3		100%	-	BRANCH	SHEEP
833	600144	88-11-2	24"	MAINE TO DIPE	50% see note 1	-	100%		CIRC	NALVE

INSERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUEST

GRAND GULF NUCLEAR STATION UNIT 1 RELIEF REQUEST NO. I-00010 REVISION 5

TABLE 1

11EN NO	SYSTEM	0 M	38	3218	COMPONENT	EXAMINABLE VOLUMETRIC AREA	TYK SCE	EXAMINABLE SURFACE AREA	CLASS	WELD	REASON FOR LIMITATIONS
19	633	971009	68-11-3	.,>2	PIPE TO VALVE	Self see note !	-	1001	-	CIRC	NAL WE
29	833	01A1009	RR-11-3	24"	VALVE TO PIPE	SUX see nots !	-	1003	-	CIRC	3A TVA
63	833	3-1V-99	RR-11-2	4"/24"	PIPE TO SWEEP	50% see note 1	-	1001	-	ВКАМСН	SMEEP
2	833	65-A1-E	2-11-39	4-/24-	PIPE TO SWEEP	50% see note 1	-	1001	-	BRANCH	SMEEP
65	633	65-A1-8	RR-11-2	4-/24-	PIPE TO SMEEP	50% see note 1	-	100%	-	BRANCH	SWEEP
3	821	3-10-119	MS-11-11	26"/10"	PIPE TO SMEEP	STR	-	87%	-	BRANCH	HAMSER
67	821	3-18-019	HS-11-5	26"/10"	PIPE TO SMEEP	718	-	100X	-	BRANCH	HANGER
8	821	3-18-019	MS-11-5	_01/_92	PIPE 10 SMEEP	718	1-	858	-	BRANCH	HAMGER
8	128	610-81-F	MS-11-5	_01/_92	PIPE TO SMEEP	78%	-	100%	-	BRANCH	HAMESE
70	821	610-81-H	MS-11-5	28"/10"	PIPE TO SHEEP	78%	-	100%	-	BRANCH	MAMSER
11	821	9-19-019	MS-11-5	_01/_92	PIPE TO SAEEP	78%	pers	100%	-	BRANCH	HAMSER
320	£51	600418	81-8-21	6	WALVE TO PIPE	83.18%	-	100%	2	CIRC	PIPE RESTRAINT

"this weld." This weld is not subject to system hydrostatic testing. Item 4 under "Reasons why relief should be granted" does not apply to this weld.

INSERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUEST

GRAND GULF NUCLEAR STATION UNIT 1 RELIEF REQUEST NO. I-00010 REVISION 5

M3TI CM	SYSTEM NO	METD	150 80	PIPE SIZE	COMPONENT	EXAMINABLE WOLLMETRIC AREA	TYPE	EXAMINABLE SURFACE AREA	CLASS	WELD	REASON FOR LIMITATIONS
73	633	G012V54	CU-11-13	6-	VALVE TO ELBOW	85.59%	ı	100%	1	CIRC	ELBOW RADIUS
74	821	600195	MS-11-0	28"	VALVE TO PIPE	82.8%	1	100%	1	CIRC	VALVE
75	821	6001A10	MS-11-12	28"	VALVE TO PIPE	80.8%	T	100%	1	CIRC	ANTAE
76	833	6001W3	RR-11-1	24"	ELBON TO VALVE	30.0X	1	100X	1	CIRC	VALVE
77	833	6001A58	RR-11-8	24"	ELBOW TO VALVE	50.0%	1	100%	1	CIRC	VALVE
											0.000

INSERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUEST

GRAND GULF NUCLEAR STATION
UNIT 1
RELIEF REQUEST NO. I-00010 REVISION 5

TABLE 1

LEGEND:

P . SCAN PARALLEL TO THE WELD

T - SCAN TANGENT (PERPENDICULAR) TO THE MELD

MOTES:

- 1. In addition to the "I" scan limitation, these welds are augmented by the requirements of NURES 0313 and therefore are examined with a parallel scan that is not required by ASME Section XI. The parallel scan is limited to one side of the weld (50%) due to the fittings being joined by the weld.
- 2. 100% coverage was obtained in one direction only, using refracted longitudinal wave.
- 3. The "F" scan is performed for compliance with MURES 0313, 100% of ASME Section XI coverage is obtained without limitation.

REVISION 2

GRAND GULF NUCLEAR STATION

Page 46A Page 1 of 6

REQUEST FOR RELIEF NO. I-00013

INSERVICE INSPECTION RPV NOZZLE INNER RADII

I. Component:

Reactor Pressure Vessel Nozzles As Listed in Table I.

II. Code

The Unit I reactor pressure vessel was designed and fabricated to ASME Section III, Class I Requirements. Applicable inservice inspections are to be performed to ASME Section XI, 1977 Edition with Addenda through and including Summer 1979 Addenda.

III. Code Requirements:

Table IWB 2500-1, Examination Category B-D, Full Penetration Welds of Nozzles in Vessels, items B 3.90 and B 3.100 requires a full thickness volumetric examination of the attaching weld, inner radius, and a portion of the nozzle bore (see Figure 1).

IV. Information to support the determination that the code requirements are impractical

The volumetric examinations were performed during preservice utilizing manual techniques with a combination of procedures. There are 35 category B-D nozzle to vessel welds that are required to be examined during the ten year inspection interval. Since the performance of preservice, automated systems for RPV examinations have been developed and are scheduled to be used at GGNS when conditions permit. The use of automated ultrasonic examination systems for reactor inspections helps to minimize man-rem exposure and provide for better data collection and analysis. With the present technology and equipment available for automated nozzle examinations a limitation of volume coverage exists. Due to nozzle geometry, thicknesses and multiple angles associated with the examination, manual scans are required to supplement the automated examination in order to obtain full coverage.

The supplemental (manual) examinations are estimated to require an average of 6 additional man hours per nozzle (2 men x 3 hours); this does not include support personnel. The examinations would require working from a skip box (man lift) lowered into the annulus between the RPV and biological shield for nozzles in the No. 2 and No. 4 ring regions and from a ladder for nozzles in the No. 1 ring region. In addition, each inner radius examination requires the changing of transducer wedges to facilitate a clockwise and counterclockwise scan thus requiring an additional calibration.

SECTION 4
RELIEF REQUEST

REVISION 2

Page 46B Page 2 of 6

Of the 35 nozzles, 29 are to be examined using automated techniques, and the remaining 6 are to be examined using manual techniques because of their small diameter. The 29 nozzles utilizing automated examinations will require supplemental manual examinations totaling approximately 174 additional man-hours excluding personnel support time. Examination time for the 6 smaller diameter nozzles would be reduced from approximately 6 man hours to 5 man hours for each nozzle.

VExaminations performed to the 1977 edition, summer 1979 addends of ASME Section XI requires extensive manhours to be spent inside the annulus area between the reactor pressure vessel and the biological shield. Fixtures and rigging for lifting and maneuvering the examination personnel are complex and require additional personnel to be located within the drywell to monitor and operate the equipment.

Later editions of ASME Section XI minimized the difficulties of performing a full thickness examination by reducing the required examination volume (see figure 2). The newly defined examination area includes the potential crack initiation sites and minimizes the difficulties associated with examining a full nozzle thickness. Performance of volumetric examinations to the volume specified by IWB 2500-7(b) of the 1983 Edition, Summer 1983 Addenda of ASME Section XI will eliminate the need for supplementing the automated ultrasonic examinations with manual scans and reduce the total time required for performing examinations on those nozzles examined manually, thus reducing man-rem exposure significantly.

V. Specific Relief Requested: Permission is requested to allow the use of Figure IWB 2500-7(b) from the 1983 Edition, Summer 1983 Addenda of ASME Section XI for determining code required examination coverage for examination Category B-D weldments.

Since the request is for a portion of the 1983 edition, Summer 1983 Addenda of the ASME Section XI Code, Paragraph IWB 3512 and its referenced paragraphs must also be adopted in order to ensure that all related requirements of the respective edition and addenda are met.

VI. Reasons Why Relief Should Be Granted:

Relief from Figure IWB 2500-7 of the 1977 Edition through 1979 Summer Addenda of ASME Section XI is requested for the following reasons:

 The area of examination that is omitted by the 1983 Edition, Summer 1983 Addenda of ASME Section XI did not have any recordable indications identified during preservice.

the section and the section of

REVISION 2

Page 46C Page 3 of 6

- The newly defined examination area (see Figure 2) includes those areas that by industry experience have the potential for crack initiation.
- 3. The Code of Federal Pegulations, Title 10, Part 50.55a(g)(4)(iv) allows for the use of subsequent editions and addends that are incorporated by reference in 10CFR50.55a(b)(2) and subject to the Commission's approval.

As used in 10CFR50.55a(b)(2), references to Section XI of the ASME Boiler and Pressure Vessel Code Refer to Section XI, Division 1, and include editions through the 1983 edition and addenda through the Summer 1983 Addenda, subject to limitations not applicable to this request.

VII. Alternate Testing:

Since the requested relief meets the requirements contained in an Edition and Addenda of ASME Section XI that is accepted by the Commission, no alternate testing is proposed.

INSERVICE INSPECTION REQUIREMENTS SECTION 4 RELIEF REQUEST

PENTSTON 3

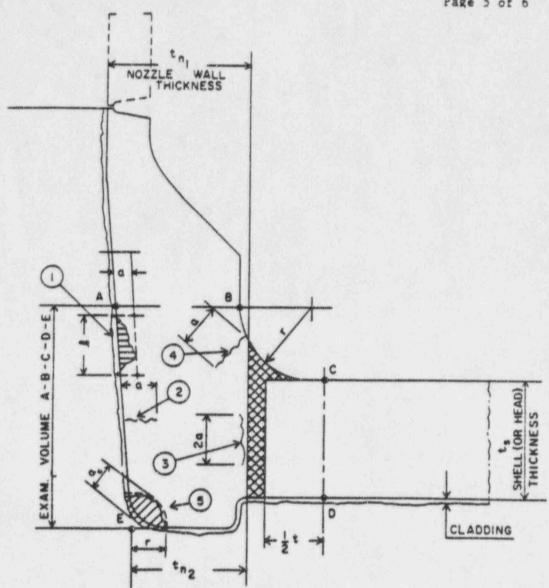
TABLE 1 RELIEF REQUEST - I-00013

Page 46D Page 4 of 6

Nozzle Cutout Diameter Note				
Curout Diameter Note	5			
No. Service Inches				
N1-A Recirculation Outlet 50.80				
N1-B Recirculation Outlet 50.80				
N2-A Recirculation Inlet 35.37				
N2-B Recirculation Inlet 35.37				
NZ-C Recirculation Inlet 35.37				
N2-D Recirculation Inlet 35.37				
N2-E Recirculation Inlet 35.37				
N2-F Recirculation Inlet 35.37				
N2-G Recirculation Inlet 35.37				
N2-H Recirculation Inlet 35.37				
N2-J Recirculation Inlet 35.37				
N2-K Recirculation Inlet 35.37				
N2-M Recirculation Inlet 35.37				
N2-N Recirculation Inlet 35.37				
N3-A Steam Outlet 52.87				
N3-B Steam Outlet 52.87				
N3-C Steam Outlet 52.87				
N3-D Steam Outlet 52.87				
N4-A Feedwater 35.12 To Be Supplemented	hv	NUREC	0619	ĺ
N4-B Feedwater 35.12 To Re Supplemented	hv	NITREC	0619	i
N4-C Feedwater 35.12 To Be Supplemented	by	NUREC	0619	l
N4-D Feedwater 35.12 To Re Supplemented				
N4-E Feedwater 35.12 To Be Supplemented	by	NUREC	0619	l
NG-F Feedwater 35.12 To Be Supplemented	by	NUREG	0619	
ND-A Corespray 35.37	,	HORLEG	0019	ı
N5-B Corespray 35.37				ı
N6-A RHR/LPCI 35.37				
N6-B RHR/LPCI 35.37				
N6-C RHR/LPCI 35.37				
N7 RCIC Head Spray 20.50				
N8 Spare 20.50				
N9A Jet Pump Instr. 17.00				
N9B Jet Pump Instr. 17.00				
N10 CRD Hyd. Sys. 19.88				
N16 Instr. Vib. 23.94				

PEUTSTON 2

Page 46E Page 5 of 6

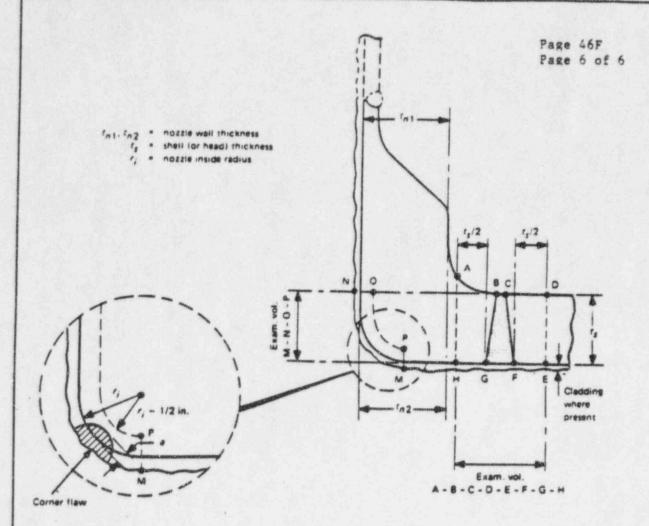


NOTE: ALL FLAWS ARE EXAGGERATED IN SIZE AND SCALE

FIG. IWB-2500-7 NOZZLE-TO-SHELL OR HEAD WELD JOINTS (Applies to Nozzles With or Without Internal Reinforcement)

FIGURE 1 RELIEF REQUEST NO. I-00013

PEVISION ?



EXAMINATION REGION (Note (1))

Shell for head) adjoining region Attachment weld region Nozzle cylinder region Nozzle inside corner region

EXAMINATION VOLUME (Note (2))

C-D-E-F B-C-F-G A-B-G-H M-N-O-P

NOTES:

(1) Examinedian regions are identified for the purpose of differentiating the acceptance standards in IW8-3512.

(2) Bischingsign volumes may be determined either by direct measurements on the component or by

FIG. IWB-2500-7(b) NOZZLE IN SHELL OR HEAD (Examination Zones in Flange Type Nozzles Joined by Full Penetration Butt Welds)

FIGURE 2 RELIEF REQUEST NO. I-00013

GRAND GULF NUCLEAR STATION UNIT 1 RELIEF REQUEST NO. I-00015 REVISION 1

PAGE 1 of 4

INSERVICE INSPECTION OF REACTOR PRESSURE VESSEL. WELDS

I. Component:

Reactor pressure vessel (RPV) components, welds and associated base material identified in table 1 of this relief request.

II. Code:

The unit 1 reactor pressure vessel was designed and fabricated to ASME Section III, class 1 requirements. Applicable inservice inspections are to be performed in accordance with Regulatory Guide 1.150 Revision 1 and ASME Section XI, 1977 Edition with Addenda through and including Summer 1979. Also, Relief Request No. I-00013 permits the use of ASME Section XI, 1983 Edition with the Summer 1983 Addenda, Figure IWB-2500-7(b) for identifying the Code required examination volume.

III. Code Requirements:

Table IWB 2500-1, Examination Category B-D, B-A and B-F, requires specified volumes to be examined volumetrically at specified periods during the ten year interval. Included in this volume is varying degrees of base material adjacent to each weld that also requires examination.

IV. Information to support the determination that the code requirements are impractical:

Due to geometric configurations of the GGNS Unit 1 reactor, certain code required examination volumes, as depicted in ASME Section XI. cannot be examined to the extent of obtaining ful. code coverage. Table 1 provides a listing of the affected components and reactor pressure vessel welds with a detailed description of the cause and decree of the limitation.

Relief Request Number I-00014 provides engineering rational addressing the limitations associated with the nozzle to vessel welds. The discussions provided prior operating plant experience to justify that no further examinations were necessary and additionally this was justified by recognizing that the feedwater nozzles are the limiting case. Although 100% of the code volumes were not examined for the nozzle to vessel welds, sufficient examination coverage was obtained to detect any potential cracking.

GRAND GULF NUCLEAR STATION UNIT 1 RELIEF REQUEST NO. I-00015 REVISION 1

PAGE 2 of 4

IV. Information to support the determination that the code requirements are impractical: (continued)

A study of the welds listed in table 1 has shown that these weld locations are also bounded by the feedwater nozzle discussions. The stresses due to any expected loadings and conditions at these locations are bounded by those at the feedwater nozzle locations. Supporting the concept of the bounding is the fact that no indications have been found at any of the partially examined locations. In addition, it should be noted that a partial examination of each weld was obtained which included either all or a portion of the reactor pressure vessel inner surface.

- V. Specific relief requested:
- Permission is requested to perform ultrasonic examinations within the limitations described in table 1 of this relief request.
- VI. Reasons why relief should be granted:

Relief as described within should be granted for the following reasons:

- The entire reactor pressure vessel was subjected to an ASME Section III hydrostatic test after fabrication.
- The entire reactor pressure vessel will be subjected to system leakage test at each refueling outage and a system hydrostatic test each inspection interval in accordance with the requirements of ASME Section XI.
- The subject welds were volumetrically examined in accordance with ASME Section III during fabrication.

GRAND GULF NUCLEAR STATION UNIT 1 RELIEF REQUEST NO. I-00015 REVISION 1

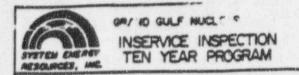
PAGE 3 of 4

- VI. Reasons why relief should be granted:
- 4. There is no history of service induced flaws in these areas of the reactor pressure vessel other than those of the feedwater nozzles discussed in Relief Request Number I-00014.
- 5. The areas of the reactor pressure vessel being examined are the limiting areas.
- 6. The potential for initiation and propagation of cracking has been discussed assuming both fatigue and stress corrosion cracking mechanisms. It was concluded by the use of limiting analyses results performed for the fascivater nozzle blend radii, that cracking is unlikely at Grand Gulf nozzla/vessel weld locations. In fact, even if it was hypothesized that these postulated cracks went undetected, a crack length of 58 inches was required before rapid crack growth were to occur during normal operation. It is unlikely that cracks of this size would go undetected. Therefore, a significant leak before break margin exists.

VII. Alternate testing:

Nome

VIII. NRC Discussion Statement: For future ISI examinations, the Licenses should continue to monitor the development of new or improved examination techniques. As improvements in these areas are achieved, the Commission will require that these enhanced techniques be made a part of the inservice examination requirements for the components or walds which received a limited examination. The staff concludes that examination to the extent described in this relief request will provide the necessary assurance of structural integrity because the large sample of walds that will be examined is sufficient to detect any significant service-induced degradation. The staff also concludes that compliance with the specific requirements of Section XI would result in hardship or unusual difficulties without a



GRAND GULF NUCLEAR STATION
UNIT 1
RELIEF REQUEST NO. I-00015 REVISION 1

PAGE 4 of 4

VIII. NRC Discussion Statement continued: compensating increase in the level of quality and safety. Therefore, relief is granted as requested.

INSERVICE INSPECTION SUMMARY REPORT

FOR

GRAND GULF NUCLEAR STATION

SECTION V

REPAIR/REPLACEMENT (NIS-2)

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NIS-2 NUMBERS

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00347	00361
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00349	00363
00350	



NIS-2 SUMMARY REPORT FOR REPAIRS/REPLACEMENTS ON CLASS 2 COMPONENTS



NIS-2 NO. 00337

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995

JACKSON, MS 39286-1995

PLANT: GRAND GULF NUCLEAR STATION

P.O. BOX 756

PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.)

Modifications and Replacements: The inlet and outlet flange stud holes of the Main Steam Safety Relief Valve (MSRV) spares were inspected for thread damage, fit, and acceptability. Existing heli-coil threaded inserts were inspected for thread damage and proper material. The stud holes determined to be unacceptable were drilled, tapped, and heli-coil threaded inserts were installed. Damaged heli-coil threaded inserts were replaced with new heli-coil threaded inserts. Any existing stainless steel heli-coil threaded inserts were replaced with inconel heli-coil threaded inserts. The MSRV spares were shipped to an independent testing facility for pressure setpoint testing and recertification after work was completed. The 5 Year Service Life Inspection was performed in conjunction with the work above and three valves were found to have discs with crack indications on the seating surfaces and outer shoulders of the discs during Liquid Penetrant Examinations. The cause for the indications was determined to be manufacturing flaws. The discs were replaced per Material Nonconformance Reports 0085-94 and 0100-94.

See Table 1 and 2 for Work Order (W.O.) #s and completion dates.
COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's I.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no.
Components: a) Dual Function Safety Relief Valves b) 8" x 10" c) N/A d) 1 e) Body: SA-352 LCB, Cast Carbon
Steel f) See Table 2 on Page 2 g) G.E Dwg. G-471-6/125.04.03 R6 h) Maint. Shop i) G. Dikkers & Co. j) Hengelo
(O) / The Netherlands k-I) See Table 2 on Page 2 m) ASME Section III, 1974 Edition, Summer 1976 Addenda n) N/A
(Continued on Page 2)
Edition with Summer, 1779, Addenda.

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Owner Representative

Date 3-1-95

FACTORY MUTUAL ENGINEERING Commissions 145600

National Board, State, Province and Nos.



NIS-2 NO. 00337

PLANT: GRAND GULF NUCLEAR STATION

P.O. BOX 756 PORT GIBSON, MS 39150 UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995

JACKSON, MS 39286-1995

Component Information:

(Continued from Page 1)

Replacement: a) Main Valve Discs b.c) N/A d) 1 e) ASME SA-351 CF3A f) N/A g) G.E Dwg. #G471-6/125 #D-SA h) Maint. Shop i) General Electric Co. j) San Jose, CA k) See Table 1 l) N/A m) ASME Section III, 1974 Edition, Summer 1976 Addenda n) N/A

Table 1

W. O. #	Valve S/N	Trace # Removed	Trace # Installed	Work Completed
122453	160829	HT. # 63-03-8, S/N 3B	M295830-S/N 30	09/01/94
122455	160838	HT. # 51.09.9, S/N 1A	M295840-S/N 32	08/03/94
122457	160844	HT. # 56.07.9, S/N 2B	M298540-S/N 35	07/05/94

Modifications/Replacements: a) Helical-coil Threaded Inserts b) inlet flange: 1%" x 8-UNC; outlet flange: 1" x 8-UNC c) N/A d) 1 e) Inconel-X750 f.g) N/A h) See Table 2 i) Heli-Coil Products j) Danbury, Conneticut k) control no.'s for inserts installed in inlet flange: 60669-A (W-6321); in outlet flange: 56952-A (W-6224), 3952-1 (W-6370), 50306-A (W-6141) I,m,n) N/A

Table 2

					Hol	e #'s	
	k)	l) National	f) Valv	e Location	h) Modified	/Replaced	Work
W.O #	Valve S/N	Board #	5	Series #	Inlet	Outlet	Completed
121821	160802	013	(Q1	B21) F041	none	2	06/16/94
121822	160804	006		F047	4,5,12	none	08/10/94
121825	160812	015		F051	2,9	none	08/10/94
121827	160815	101		F047	6	none	08/02/94
121829	160825	111		F047	none	9	06/28/94
121837	160844	201		F051	none	5	07/05/94



NIS-2 NO. 00338

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. 80X 31995

GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150 PLANT:

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

JACKSUR, MS 37COD-1777	
ABSTRACT OF REPAIRS/REPLACEMENTS/MODIF and corrective measures taken or recom	ICATIONS:(Include types and completion dates of tests, examinations, work completed, mended.)
	e No. Q1G36F101 failed a Local Leak Rate Test (LLRT). The valve wedge showed
	was initiated for corrective action. The valve seat, stem and backseat were cleaned,
The state of the s	ollowing tests and examinations were performed:
Local Leak Rate Test (LLRT): 11/12/93
Surveillance Operability Tes	t: 11/12/93
Maintenance Leak Test & V	isual Examination on Mechanical Connections: 2/2/94
Work Order NO. 109753: C	ompleted 2/9/94
COMPONENT INFORMATION: (Include all app	plicable information and indicate whether repaired, replaced or etc.) a)name b)size
c)capacity d)class e)material f)M k)manufacturer's I.D. no. l)National	PL No. g)drawings h)location i)manufacturer's name j)manufacturer's address Board No. m)Construction Code Edition & Addenda n)Code Case no.
1. Component: a) Gate Valve b)	4" NPS c) 150# d) 2 e) Body: SA105 f) Q1G36F101 g) VEN. DWG. NO.
	7, EL. 128' i) William Powell Co. j) Cincinnati, OH k) S/N 69387-1; Body:
	HT. NO. CB I) N/A m) ASME SECT. III, 1971 ED., Winter 1972 ADD. n) N/A
2. Replacement: a) Wedge/Disc	-j) Same as item one except for c) N/A e) SA351 k) Removed: CM NO. 2692B,
	B, Heat NO. B84 I-n) Same as item one
Security Control of the Control of t	
Noted and produced and analysis and a second	
We certify that the statements made in	this report are correct and conform to the rules of ASME Section XI, Division I, 1977
Edition with Suppler, 1979, Addenda.	1 1
signed Milhoe	Date 9/15/94 Title: Engineering Support Supt.
Owner Representativ	• / / /
	CERTIFICATE OF INSERVICE INSPECTION

CENTIFICATE OF INSERVICE INSPECTIC

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Date 9-15-94

FACTORY MUTUAL ENGINEERING Commissions 115. 600 National Board, State, Province and Nos.



NIS-2 NO. 00339

ENTERGY

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE

P.O. BOX 31995 JACKSON, MS 39286-1995

PLANT: GRAND GULF NUCLEAR STATION

P.O. BOX 756

PORT GIBSON, MS 39150

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS:(Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.) Replacement: Bolting was replaced on a stock pipe clamp. The bolts were replaced because the original bolts were
removed from the stock pipe clamp to replace bolting on a pipe clamp that was damaged during RF05. (See NIS-2 No.
00336)
Work was completed under Work Order # 129966: Completed 11/8/94
component information: (include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's I.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no. 1.Component: a) Pipe Clamp b) For 20" Pipe c) N/A d) 1 e) SA-307 Gr. B f) Q2B33G023R01 (Spare) q) HL- 1348A h) Maintenance Shop i) Bergen Patterson Pipe Support i) Laconia, N.H. k) Mark #Q2B33G023R01, Part #
6202-120N-20" I) N/A m) ASME Section III, Subsection NF, 1974 Addenda n) 1644.10
2.Replacement: a) Studs (4) b) 1½" c-n) Same as Item 1 except for e) SA-36 k) PN C1712D n) N/A
3.Replacement: a) Nuts (16) b) 1½" c-n) Same as Item 2 except for e) SA-563 Gr. A k) PN C1713D
We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division I, 1977
Edition with Summer, 1979, Addenda. Signed: Date 1/10/95 Title: Engineering Support Supt.

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Commissions MS. 620 National Board, State, Province and Nos.

uning Date 1-12.95





OWNER: ENTERGY OPERATIONS, INC.

P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION

P.O. BOX 756

PORT GIBSON, MS 39150

NIS-2 NO. 00340

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include	types and completion date	s of tests,	examinations, work completed,
and corrective measures taken or recommended.)			
BEDI ACEMENTS. All twenty Main Steam Relief Valve	e (MSRVe) were removed	d and renia	ced during Refueling Outage

REPLACEMENTS: All twenty Main Steam Relief Valves (MSRVs) were removed and replaced during Refueling Outage No. 7 for as-found set pressure testing and certification to meet Technical Specifications and ASME Section XI testing requirements. The MSRV replacements were rebuilt spares that had been tested and recertified. All studs and nuts for the MSRV inlet and outlet flanges were inspected during rotation of MSRVs and those with deficiencies were replaced.

The following tests and examinations were performed:

As-found Set Pressure Tests (by WYLE Labs.): (See Table on Page 2)

VT-1 Preservice Examinations on Inlet stud & nut replacements: 5/2,5,6/95

System Pressure Test & VT-2 Examinations: 5/23/95

Valve Operability Tests: 5/30/95

Work Order #139584 (For Insp. of MRSV studs & nuts): Completed 5/25/95

Work Order #139625, under Surveillance Task #1141 (For Rotation of MSRVs): Completed 5/30/95

(Continued on Page 2)

COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's I.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no.

1. REPLACEMENTS: a) Dual Function Safety Relief Valves (20 ea.) b) 8" x 10" c) N/A d) 1 e) Body: SA-352 LCB, Cast Carbon Steel f) See Table 2 on Page 2 g) G.E. Dwg. G-471-6/125.04.03 h) Drywell, El. 147' i) G. Dikkers & Co. j) Hengelo (O) / The Netherlands k) See Table on Page 2 l) See Table on Page 2 m) ASME Section III, 1974 Edition, Summer 1976 Addenda n) N/A

2. REPLACEMENTS: a) Inlet Flange Studs (31 ea.) b) 1 5/8"-8 UNC-2A c-n) Same as Item 1, except for: e) SA-193 Gr. B7 i) General Electric i) San Jose, CA k) Trace Code# ATA; Ht.# 43405 i) N/A

3. REPLACEMENTS: a) Inlet Flange Heavy Hex Nuts (19 ea.) b) 1 5/8"-8 UN-2B c-n) Same as Item 2, except for: e) SA-194 Gr. 7 and k) Trace Code# XT4; Ht.# 8078476 (Continued on Page 2)

We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division 1, 1977

Edition with Summer, 1979 Agenda.

Owner Representative

Date 8/16/95

Title: Testing/Inspection Programs Supv.

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Donald Siving

Date 8-22-95

Commissions MS. 600 National Board, State, Province and Nos.



NIS-2 NO. 00340

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995 JACKSON, MS 39286-1995

GRAND GULF NUCLEAR STATION PLANT:

P.O. BOX 756 PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

COMPONENT INFORMATION: (Continued from Page 1)

					Date of	
Master Parts MSRVs		MS	RV's	Recertification		
List (MPL)#	Re	moved	Inst	alled	Set Pressure Test	
n Q1B21-	k) <u>S/N</u>	I) Nat. Bd.#	k) <u>S/N</u>	1) Nat. Bd.#	(of MSRVs Installed)	
F041A	160821	107	160801	010	12/02/94	
F041B	160820	106	160802	013	11/30/94	
F041C	160822	108	160838	183	11/18/94	
F041D	160817	103	160815	101	11/15/94	
F041E	160819	105	160795	800	12/01/94	
F041F	160816	102	160818	104	11/09/94	
F041G	160835	184	160796	011	11/23/94	
F041K	160800	002	160837	252	06/23/94	
F047A	160805	003	160827	113	11/10/94	
F047C	160840	182	160808	016	12/02/94	
F047D	160803	030	160841	194	11/09/94	
F047G	160826	112	160839	206	11/23/94	
F047H	160828	114	160824	110	05/25/93	
F047L	160823	109	160825	111	11/22/94	
F051A	160833	119	160812	015	11/22/94	
F051B	160810	019	160831	117	11/16/94	
F051C	160832	118	160844	201	12/01/94	
F051D	160809	018	160829	115	11/30/94	
F051F	160830	116	160811	007	11/10/94	
F051K	160834	120	160814	014	05/18/93	

4. REPLACEMEN	TS: a) Outlet Fla	nge Studs (33 ea.	b) 1"-8 UNC-2A	c-n) Same as Item 2	, except for:	k) Trace
Code# C26; Ht.#	88082					

5.	REPLACEMENTS:	a) Outlet Flange	Heavy Hex	Nuts (12 ea) b) 1"-8 UNC-2B	c-n) Same as It	em 3, except for:
k)	Trace Code# XT6;	Ht.# 8094962					





NIS-2 NO.

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995

GRAND GULF NUCLEAR STATION

P.O. BOX 756 PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

JACKSON, MS 39286-1995		
Modification: Per Material Nonconform	mance Report (MNCR) 0338-93, the disc ar	nd disc nut for High Pressure Core Spray
	lling two holes, 90° apart, through the disc	
	ation will prevent disengagement of the two	
	ion of the disc from the stem. This will el	
the apparent cause for the broken you	ke problem originally identified in MNCR (0338-93 (See NIS-2-327).
The generic implications of this no	enconformance have been addressed by	including Anchor-Darling globe valves
Q1E22F010 and Q1E22F023 in the dis	sposition of MNCR 0338-93 (See NIS-2-32	28).
The following tests and examinations	were performed:	
VE-1 Visual Examination & L	iquid Penetrant Examination of tack weld	s: 1/6/95
Maintenance Leak Test of th	ne Valve Body to Bonnet mechanical conf	nection: 1/10/95
Valve Operability Test: 1/11	/95	
Modification Work Package 19930338	, Condition Identification #040379: Comp	leted 1/19/95
c)capacity d)class e)material f)Mi	plicable information and indicate whether repl No. g)drawings h)location i)manufaleard No. m)Construction Code Edition & AdNPS c) 900 lb. d) 2 e) Body: \$A216 G	denda n)Code Case no.
#2999-3 h) Aux. Bldg., Area 8, El		layward, CA k) S/N 2N-1021 I) N/A
m) ASME Section III, 71'Ed. to W7;	3 Add. n) 1567, 16376	
2. Modifed: a) Disc b-n) Same as in	Item 1, except for: k) Heat #7249E, S/	N 27
3. Installed: a) Pins (2) b) 3/8" dia.	c) N/A d) 1, Subsection NF e) SA-36	f) N/A g) NPE Dwg. #VPF-KA3238-411
	lub, Inc. j) Tucker, GA k) Heat #4-747	
to S'82 Add. n) N/A		
We certify that the statements made in selection with Summer, 1979 Authenda.	this report are correct and conform to the	
Wigned: Owner Representative	Date 0/2/13	Title: Engineering Support Supt.

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Commissions M5.600 National Board, State, Province and Nos.



NIS-2 NO. 00342

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995

PLANT: GRAND GULF NUCLEAR STATION

P.O. BOX 756

PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

JACKSON, MS 39286-1995
ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include types and completion dates of tests, examinations, work completed and corrective measures taken or recommended.) Replacement: It was discovered that the Residual Heat Removal (RHR) Jockey Pump "B" rotating assembly seals were
leaking. As a preventative maintenance measure the entire rotating assembly was replaced. The following tests and
examinations were performed:
Maintenance Leak Test with Visual Examination on the Mechanical Connections: 2/24/95
Surveillance Operability Test: 2/24/95
Work was completed under Maintenance Work Order # 129482: Completed 2/24/95
COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)siz c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's addresk)manufacturer's I.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no. 1. Component: a) Jockey Pump b) 1" x 11/2"-6 c) N/A d) 2 e) SA-351 Gr. CF8M f) Q1E12C003B g) Gould
Dwg. N737222 #1 h) Aux. Bldg., Area 8, El. 93', i) Goulds Pumps, INC. j) Seneca Falls, NY k) N737B222-2 l) 20
m) ASME Section III, 1977 Edition through Summer 1977 Addenda n) 1636-1
2. Replacement: a) Rotating Assembly b) for 1" x 1½"-6 pump c-i) Same as Item 1 except for g) N737221 #1, Rev
1 k) Removed: Rotating Assembly-Frame I.D.# G1086; Installed: Rotating Assembly S/N N565762 I) N/A m) ASMI
Section III, 1971 Edition through Summer 1973 Addenda n) N/A
We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division I, 197 Edition with Summer, 1979 Andenda. Signed: Date 6/9/95 Title: Engineering Support Supt.
CERTIFICATE OF INSERVICE INSPECTION
CENTIFICATE OF MODIFICE MOTEOTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summery report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Ms. 600 Commissions National Board, State, Province and Nos.

Date 6-9-95



NIS-2 NO. 00343

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995

GRAND GULF NUCLEAR STATION PLANT:

P.O. BOX 756 PORT GIBSON, MS 39150

GRAND GULF ONE UNIT: COMMERCIAL OPERATION DATE: JULY 1, 1985

JACKSON, MS 39286-1995 ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.) REPLACEMENTS: During RF07 Freedom-of-Motion/Functional Testing of mechanical and hydraulic snubbers per the requirements of Technical Requirements Manual 7.6.3.10, the following snubbers and /or snubber hardware were installed: Q1E12G014R05: Per Work Order #140304, PSA-1/2 mechanical snubber (S/N 7564) was unpinned and A: Freedom-Of-Motion Tested on 4/18/95. The results of F.O.M. testing were unacceptable, so the snubber was Functionally Tested on 4/19/95. The snubber failed Functional Testing and nonconformance document MNCR 0079-95 was generated. Replacement snubber (S/N 4684) was installed and the Snubber Visual Inspection was performed on 4/20/95. (Ref. MRR 12620) COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's 1.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no. REPLACEMENT OF Q1E12G014R05: INSTALLED: a) Mechanical snubber b) PSA-1/2 c) 650 lbs. d) Class 2 e) various f) Q1E12G014R05 g) HL-1348E h) Aux. Bldg. Area 8 Elev. 105 i) NPS Industries j) Portland, Oregon k) P/N 1801104-07 S/N 4684 I) N/A m) ASME Section III, Class 1, Subsection NF, 1977 Edition, 1978 Winter Addenda n) No Code Cases apply We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division 1, 1977 Edition with Summer nde Title: Engineering Support Supt. Signed:

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

mer Representative

Date 8-30-95

Commissions MS 600 National Board, State, Province and Nos.

au D.



NIS-2 NO. 00343

OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE

P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150 UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS(cont.):

REPLACEMENTS (cont.):

The following mechanical snubbers were replaced for service life considerations in anticipation of reduced snubber service life by the manufacturer. The original snubbers which were installed in the following supports passed functional testing, either as part of the RF07 sample plan or for informational testing. The replacement snubbers were disassembled and regreased prior to installation (Ref. W.O.s 135257, 135749, 135750, 135751, 135752, 135747 and 135748).

						VISUAL	
	SUPPORT	SNUBBER	OLD	NEW	WORK	INSPECTION	RECEIPT
	NUMBER	SIZE	S/N	S/N	ORDER	DATE	DOCUMENTS
В.	Q1B21G163R02	PSA-1/2	7482	20376	139766	05/12/95	QIPN-R1409-86
C.	Q1B33G105R02	PSA-1/4	28209	10699	138822	05/03/95	MRR-12620
D.	Q1B33G105R02	PSA-1/2	7477	20253	138822	05/03/95	QIPN-R0961-85
E.	Q1E12G119R02	PSA-1/2	7493	20381	139582	05/16/95	QIPN-R1423-86
F.	Q1E12G159R01	PSA-1/4	10730	11091	139582	05/16/95	MRR-12663
G.	Q1E12G159R03	PSA-1/4	10721	11063	139582	05/16/95	MRR-12663
H.	Q1E12G159R04	PSA-1/4	10727	13678	140275	05/16/95	MRR-13799
١.	Q1E32G106C01	PSA-1/2	7565	20254	139708	05/03/95	QIPN-R0961-85
J.	Q1E32G119C01	PSA-1/2	7586	7470	139705	04/26/95	MRR-12663
K.	Q1E51G001R06	PSA-1/2	7458	4735	140303	04/25/95	QIPN-R1019-85
L.	Q1E51G003R11	PSA-1/2	7462	7549	140302	04/25/95	QIPN-R1019-85
M.	Q1E51G003R11	PSA-1/2	7497	7478	140302	04/25/95	MRR-12663
N.	Q1E51G004R01	PSA-1/2	7469	7585	140305	04/26/95	MRR-12620
0.	Q1E51G004R01	PSA-1/2	7457	7581	140305	04/26/95	MRR-12620
Ρ.	Q1E51G004R06	PSA-1/2	4730	7555	140305	04/26/95	MRR-12539
Q.	Q1E51G004R06	PSA-1/2	7597	7574	140305	04/26/95	MRR-12620
R.	Q1E12G015R28	PSA-10	7567	5231	135722	05/16/95	MRR-12620
S.	Q1E51G003R04	PSA-3	13066	13120	135760	05/16/95	MRR-13416
T.	Q1G33G002R14	PSA-10	7568	7511	135693	05/11/95	MRR-13415
U.	Q1E51G001R17	PSA-3	11197	13041	135774	05/22/95	MRR-13416
٧.	Q1E51G004R11	PSA-1	10283	9142	135480	04/26/95	MRR-12663
W.	Q1E12G013R08	PSA-1	9384	9412	135473	05/16/95	MRR-12700
X.	Q1E12G020R07	PSA-3	13054	13102	135777	05/10/95	MRR-16246
٧.	Q1E51G001R10	PSA-3	11219	13077	135759	05/03/95	MRR-13416
Z.	Q1E12G025R01	PSA-10	5245	7420	135713	04/18/95	MRR-13415



NIS-2 NO. 00343

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995

JACKSON, MS 39286-1995

PLANT: GRAND GULF NUCLEAR STATION

P.O. BOX 756 PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS(cont.):

REPLACEMENTS (cont.):

						VISUAL	
	HARDWARE	SNUBBER	OLD	NEW	WORK	INSPECTION	RECEIPT
	NUMBER	SIZE	S/N	S/N	ORDER	DATE	DOCUMENTS
AA.	Q1E12G013R06	PSA-10	5234	14379	135745	05/16/95	MRR-17121
AB.	Q1C41G136R02	PSA-1	9125	9403	135468	04/24/95	MRR-12700
AC.	Q1E12G025C01	PSA-3	10282	10743	135761	04/19/95	MRR-12690
AD.	Q1E51G003R07	PSA-3	13072	13051	135773	05/02/95	MRR-13416
AE.	Q1E12G014R04	PSA-10	7419	7424	135723	04/18/95	MRR-13415
AF.	Q1E12G013R05	PSA-3	11205	13122	109049	05/16/95	MRR-13416
AG.	Q1E12G014C03	PSA-1	10281	9418	135474	05/12/95	MRR-12700
AH.	Q1E12G012R04	PSA-10	7461	14374	135736	05/12/95	MRR-17121
AI.	Q1E12G016R02	PSA-3	10724	13047	135763	05/03/95	MRR-13416
AJ.	Q1E51G004R14	PSA-10	7480	7573	135719	04/28/95	MRR-13416
AK.	Q1E12G010R07	PSA-10	14373	7497	135653	04/26/95	MRR-13415
AL.	Q1E22G003R04	PSA-10	7473	7512	135652	04/27/95	MRR-13415
AM.	Q1E51G004R13	PSA-10	7434	14377	135650	05/12/95	MRR-17121
AN.	Q1E51G004R14	PSA-10	7500	7570	135691	04/28/95	MRR-13416
AO.	Q1E51G001R20	PSA-10	12185	14370	135734	05/10/95	MRR-17121
AP.	Q1E22G003R03	PSA-10	7467	7562	109062	04/27/95	MRR-13416
AQ.	Q1B21G026R01	PSA-100	0924	1027	135754	05/10/95	MRR-15408
AR.	Q1B21G026R04	PSA-35	5626	7841	135787	04/26/95	MRR-15353
AS.	Q1E12G012R18	PSA-35	5288	8114	135785	05/12/95	MRR-15353





NIS-2 NO. 00343

OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE

P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150

UNIT: GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

REPLAC	EMENTS (cont.):
AT.	Q1B33G006S369B: Per Work Order #140143, E-100 (100 kip) hydraulic snubber, S/N 017, was removed
	from the pipe support for Functional Testing as part of the RF07 Snubber Sample Plan. The snubber was
	removed from the support and Functionally Tested on 5/4/95. Although the Functional Test was acceptable.
	a refurbished snubber, S/N 019, was functionally tested on 5/5/95 and installed into the support for service
	life considerations on 5/8/95. The support was Visually Inspected on 5/8/95 with acceptable results, and
	the Work Order was Returned to Operation on 5/9/95.
	(Ref. MRR-GPD-7269)
AU.	Q1B21G006S104D: Per Work Order #140147, E-50 (50 kip) hydraulic snubber, S/N 105, was removed from
	the support on 4/20/95 for Functional Testing as part of the RF07 Snubber Sample Plan. The snubber was
	Functionally Tested "acceptable" on 4/21/95, but the snubber was damaged during transportion and
	reinstallation into the support. The snubber was replaced by E-50 S/N 169, which was Functionally Tested
	on 5/6/95 and installed into the support on 5/9/95. The support was Visually Inspected on 5/9/95 with
	acceptable results and the Work Order was Returned to Operation on 5/14/95.
	(Ref. MRR-GPD-7984)
AV/AW.	Q1E51G004R14: Per Work Order #135719, a snubber on this support was replaced for service life
	considerations (Ref "AJ"). The attachment hardware was lost and subsequently replaced. For the load pin
	located on the clamp end, a spare pipe clamp was requisitioned from the warehouse and the load pin (AV)
	was removed from the clamp and installed into the pipe support. The remainder of the spare clamp was
	discarded. The other load pin was replaced with a warehouse spare (AW). The snubber was installed into
	the support and Visually Inspected on 4/28/95.
	(Ref. MRR-17726 and R0893-85)
AX.	Q1B21G153R02: Per Work Order #140127, one of the snubbers on this support was removed for testing.
-	at which time one of the load pins was lost. The load pin was replaced during reinstallation with a warehouse
	spare. The snubber was removed from the support, Freedom Of Motion Tested "acceptable", reinstalled and
	Visually Inspected on 4/21/95. The Work Order was completed 4/21/95 and was Returned to Operation or
	5/9/95.
	(Ref. QIPN-R-0893-85)



NIS-2 NO. 00343

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE

P.O. BOX 31995 JACKSON, MS 39286-1995

PLANT: GRAND GULF NUCLEAR STATION

P.O. BOX 756 PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

REPLA	ACEMENTS (cont.):
AY.	Q1B21G026R04: Per Work Order # 135787, a PSA-35 mechanical snubber was removed from the support
	for Functional Testing as part of the RF07 Snubber Sample Plan. The snubber load pin was damaged during
	removal and was replaced with a warehouse spare. The snubber was removed from the support and
	Functionally Tested on 4/24/95 and was reinstalled and Visually Inspected on 4/25/95. The Work Order was
	completed 4/26/95 and Returned to Operation on 4/27/95.
	(Ref. 87MP734815002M08326)
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NIS-2 NO. 00343

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995

JACKSON, MS 39286-1995

PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

В.	REPLACEMENT OF Q1B21G163R02:					
	INSTALLED:	a) Mechanical snubber b) PSA-1/2 S/N 20376 c) 650 lbs. d) Class 1 e) various				
		f) Q1B21G163R02 g) FSK-H-1077B-033C h) Drywell elev. 112' i) Pacific Scientific				
		j) Anaheim, Ca k) P/N 1801104-07 l) N/A m) ASME Section III, Subsection NF, 1980 Edition,				
		Summer 1982 Addenda n) Code Cases N71-7 and N-247				
C.	REPLACEME	NT OF Q1B33G105R02:				
	INSTALLED.	a) Mechanical snubber b) PSA-1/4 S/N 10699 c) 350 lbs d) Class 1 e) various				
		f) Q1B33G105R02 g) FSK-H-1078A-005C h) Drywell elev. 101' i) NPS Industries j) Portland,				
		Oregon k) P/N 1801104-05 l) N/A m) ASME Section III, Subsection NF, Class 1, 1977				
		Edition, Winter 1978 Addenda n) No Code Cases apply				
D.	REPLACEME	NT OF Q1B33G105R02:				
	INSTALLED:	a) Mechanical snubber b) PSA-1/2 S/N 20253 c) 650 lbs. d) Class 1 e) various				
		f) Q1B33G105R02 g) FSK-H-1078A-005C h) Drywell elev. 101' i) Pacific Scientific				
		Anaheim, Ca. k) P/N 1801104-07 l) N/A m) ASME Section III, Subsection NF, 1980 Edition,				
		Summer 1982 Addenda n) Code Cases N71-7 and N 247				
Ε.	REPLACEMENT OF Q1E12G119R02:					
	INSTALLED:	a) Mechanical snubber b) PSA-1/2 S/N 20381 c) 650 lbs. d) Class 2 e) various				
		f) Q1E12G119R02 g) FSK-H-1085B-009B h) Aux. Bldg. Area 7 i) Pacific Scientific				
		j) Anaheim, Ca k) P/N 1801104-07 l) N/A m) ASME Section III, Subsection NF, 1980 Edition				
		Summer 1982 Addenda n) Code Cases N71-7 and N-247				
F.	REPLACEME	NT OF Q1E12G159R01:				
	INSTALLED:	a) Mechanical snubber b) PSA-1/4 S/N 11091 c) 350 lbs. d) Class 2 e) various				
		f) Q1E12G159R01 g) FSK-H-1085B-018B h) Aux. Bldg. Area 7 i) Bergen-Paterson				
		j) Woburn, Mass. k) P/N 1801104-05 l) N/A m) ASME Section III, Subsection NF, 1974				
		Edition with no addenda n) No Code Cases apply				
G.	REPLACEMENT OF Q1E12G159R03:					
-	INSTALLED:	a) Mechanical snubber b) PSA-1/4 S/N 11063 c) 350 lbs. d) Class 2 e) various				
		f) Q1E12G159R03 g) FSK-H-1085B-018B h) Aux. Bldg. Area 7 i) Bergen-Paterson				
-		j) Woburn, Mass. k) P/N 1801104-05. l) N/A m) ASME Section III, Subsection NF, 1974				
		Edition with no addenda n) No Code Cases apply				



NIS-2 NO. 00343

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150

GRAND GULF ONE UNIT: COMMERCIAL OPERATION DATE: JULY 1, 1985

H.	REPLACEMENT OF Q1E12G159R04:				
	INSTALLED:	a) Mechanical snubber b) PSA-1/4 S/N 13678 c) 350 lbs. d) Class 2 e) various			
		f) Q1E12G159R04 g) FSK-H-1085B-018B h) Aux. Bldg. Area 7 i) Bergen-Paterson			
		j) Laconia, N.H. k) P/N 1801104-05 I) N/A m) ASME Section III, Subsection NF, 1974 Edition			
		with no addenda n) No Code Cases apply			
	REPLACEME	NT OF Q1E32G106C01:			
	INSTALLED:	a) Mechanical snubber b) PSA-1/2 S/N 20254 c) 650 lbs. d) Class 2 e) various			
		f) Q1E32G106C01 g) FSK-H-1097-006B h) Aux. Bldg. Area 8 i) Pacific Scientific			
		j) Anaheim, Ca. k) P/N 1801104-07 l) N/A m) ASME Section III, Subsection NF, 1980			
		Edition, Summer 1982 addenda n) Code Cases N71-7 and N-247 apply			
J.	REPLACEME	NT OF Q1E32G119C01:			
	INSTALLED:	a) Mechanical snubber b) PSA-1/2 S/N 7470 c) 650 lbs. d) Class 1 e) various			
		f) Q1E32G119C01 g) FSK-H-1097-019B h) Aux. Bldg. Area 8 i) Bergen-Paterson j) Woburn,			
		Mass. k) P/N 1801104-07 l) N/A m) ASME Section III, Subsection NF, 1974 Edition with			
		no addenda n) No Code Cases apply			
K.	REPLACEMENT OF Q1E51G001R06:				
	INSTALLED:	a) Mechanical snubber b) PSA-1/2 S/N 4735 c) 650 lbs. d) Class 2 e) various			
		f) Q1E51G001R06 g) HL-1346A h) Aux. Bldg. Area 8 i) Pacific Scientific j) Anaheim, Ca.			
-	CONTRACTOR DE CANADA	k) P/N 1801104-07 I) N/A m) ASME Section III, Subsection NF, 1977 Edition, Winter 1978			
		addenda n) Code Cases 1644-5 and 1644-6 apply			
L.	REPLACEME	NT OF Q1E51G003R11:			
-	INSTALLED:	a) Mechanical snubber b) PSA-1/2 S/N 7549 c) 650 lbs. d) Class 2 e) various			
		f) Q1E51G003R11 g) HL-1347B h) Aux. Bldg. Area 7 i) Pacific Scientific j) Anaheim, Ca.			
		k) P/N 1801104-07 I) N/A m) ASME Section III, Subsection NF, 1974 Edition, Winter 1974			
		Addenda n) Code Case 1644-7 applies			
M.	REPLACEMENT OF Q1E51G003R11:				
	INSTALLED:	a) Mechanical snubber b) PSA-1/2 S/N 7478 c) 650 lbs. d) Class 2 e) various			
		f) Q1E51G003R11 g) HL-1347B h) Aux. Bldg. Area 7 i) Bergen-Paterson j) Woburn, Mass.			
		k) P/N 1801104-07 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code			
		Cases apply			



NIS-2 NO. 00343

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE

P.O. BOX 31995 JACKSON, MS 39286-1995

PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150

COMMERCIAL OPERATION DATE: JULY 1, 1985

N.	REPLACEMENT OF Q1E51G004R01:				
	INSTALLED:	a) Mechanical snubber b) PSA-1/2 S/N 7585 c) 650 lbs d) Class 2 e) various			
		f) Q1E51G004R01 g) HL-1347A h) Aux. Bldg. Area 8 i) NPS Industries j) Portland, Or.			
		k) 1801104-07 I) N/A m) ASME Section III, Subsection NF, Class 1, 1977 Edition, Winter 1978			
	a) haranga ananagan sanahar ananagan ar makagan sata	Addenda n) No Code Cases apply			
0.	REPLACEME	NT OF Q1E51G004R01:			
	INSTALLED:	a) Mechanical snubber b) PSA-1/2 S/N 7581 c) 650 lbs. d) Class 2 e) various			
		f) Q1E51G004R01 g) HL-1347A h) Aux. Bldg. Area 8 i) NPS Industries j) Portland, Or.			
		k) 1801104-07 I) N/A m) ASME Section III, Subsection NF, Class 1, 1977 Edition, Winter 1978			
		Addenda n) No Code Cases apply			
P.	REPLACEME	NT OF Q1E51G004R06:			
	INSTALLED:	a) Mechanical snubber b) PSA-1/2 S/N 7555 c) 650 lbs. d) Class 2 e) various			
		f) Q1E51G004R06 g) HL-1347A h) Aux. Bldg. Area 8 i) Bergen-Paterson j) Woburn. Mass.			
		k) 1801104-07 l) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			
Q.	REPLACEMENT OF Q1E51G004R06:				
-	INSTALLED:	a) Mechanical snubber b) PSA-1/2 S/N 7574 c) 650 lbs. d) Class 2 e) various			
		f) Q1E51G004R06 g) HL-1347A h) Aux. Bldg. Area 8 i) NPS Industries j) Portland, Or.			
		k) 1801104-07 I) N/A m) ASME Section III, Subsection NF, Class 1, 1977 Edition, Winter 1978			
		Addenda n) No Code Cases apply			
R.	REPLACEME	NT OF Q1E12G015R28:			
	INSTALLED:	a) Mechanical snubber b) PSA-10 S/N 5231 c) 15000 lbs. d) Class 2 e) various			
		f) Q1E12G015R28 g) HL-1348F h) Containment Building i) NPS Industries j) Portland, Or			
		k) 1801103-07 l) N/A m) ASME Section III, Subsection NF, Class 1, 1977 Edition, Winter 1978			
-		Addenda n) No Code Cases apply			
S.	REPLACEMENT OF Q1E51G003R04:				
	INSTALLED:	a) Mechanical snubber b) PSA-3 S/N 13120 c) 6000 lbs. d) Class 2 e) various			
		f) Q1E51G003R04 g) HL-1347B h) Aux. Bldg. Area 7 i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801106-05 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			



NIS-2 NO. 00343

OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE

P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150

UNIT: COMMERCIAL OPERATION DATE: JULY 1, 1985

T.	REPLACEMENT OF Q1G33G002R14:				
	INSTALLED:	a) Mechanical snubber b) PSA-10 S/N 7511 c) 15000 lbs. d) Class 1 e) various			
		f) Q1G33G002R14 g) HL-1342A h) Drywell elev 102' i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801103-07 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) Code Cases			
		1644-7 and N-225 apply			
U.	REPLACEME	NT OF Q1E51G001R17:			
	INSTALLED:	a) Mechanical snubber b) PSA-3 S/N 13041 c) 6000 (bs. d) Class 1 e) various			
		f) Q1E51G001R17 g) HL-1346A h) Drywell elev. 190' i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801106-05 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
	and the second s	apply			
V.	REPLACEME	NT OF Q1E51G004R11:			
	INSTALLED:	a) Mechanical snubber b) PSA-1 S/N 9142 c) 1500 lbs. d) Class 2 e) various			
		f) Q1E51G004R11 g) HL-1347A h) Aux Bldg. Area 8 i) Bergen-Paterson j) Woburn, Mass.			
		k) 1801102-05 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			
W.	REPLACEMENT OF Q1E12G013R08:				
	INSTALLED:	a) Mechanical snubber b) PSA-1 S/N 9412 c) 1500 lbs. d) Class 2 e) various			
-		f) Q1E12G013R08 g) HL-1348D h) Aux. Bldg. Area 7 i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801102-05 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			
Χ.	REPLACEME	NT OF Q1E12G020R07:			
	INSTALLED:	a) Mechanical snubber b) PSA-3 S/N 13102 c) 6000 lbs. d) Class 2 e) various			
		f) Q1E12G020R07 g) HL-1347A h) Aux. Bldg. Area 7 i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801106-05 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) Code Cases			
		1644-7, 1651, 1683, 1690 and 1818 apply			
Υ.	REPLACEMENT OF Q1E51G001R10:				
	INSTALLED	a) Mechanical snubber b) PSA-3 S/N 13077 c) 6000 lbs. d) Class 1 e) various			
-		f) Q1E51G001R10 g) HL-1346A h) Drywell elev. 135' i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801106-05 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			



NIS-2 NO. 00343

OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE

P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150

UNIT: COMMERCIAL OPERATION DATE: JULY 1, 1985

Z.	REPLACEMENT OF Q1E12G025R01:				
	INSTALLED:	a) Mechanical snubber b) PSA-10 S/N 7420 c) 15000 lbs. d) Class 2 e) various			
		f) Q1E12G025R01 g) HL-1358B h) Aux. Bldg. Area 8 i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801103-07 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) Code Cases			
		1644-7 and N-225 apply			
AA.	REPLACEMENT OF Q1E12G013R06:				
	INSTALLED:	a) Mechanical snubber b) PSA-10 S/N 14379 c) 15000 lbs. d) Class 2 e) various			
		f) Q1E12G013R06 g) HL-1348D h) Aux. Bldg. Area 7 i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801103-07 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) Code Cases 1644			
		and 1818 apply			
AB.	REPLACEME	NT OF Q1C41G136R02:			
	INSTALLED:	a) Mechanical snubber b) PSA-1 S/N 9403 c) 1500 lbs. d) Class 1 e) various			
		f) Q1C41G136R02 g) FSK-H-1082-034C h) Drywell Elevation 152' i) Bergen-Paterson			
-		j) Laconia, N.H. k) 1801102-05 l) N/A m) ASME Section III, Subsection NF, 1974 Edition			
		n) No Code Cases apply			
AC.	REPLACEMENT OF Q1E12G025C01:				
-	INSTALLED:	a) Mechanical snubber b) PSA-3 S/N 10743 c) 6000 lbs. d) Class 2 e) various			
		f) Q1E12G025C01 g) HL-13586 h) Aux. Bldg Area 8 i) NPS Industries j) Portland, Oregon			
-		k) 1801106-05 I) N/A m) ASME Section III, Subsection NF, Class 1, 1977 Edition, Winter 1978			
-		Addenda n) No Code Cases apply			
AD.	REPLACEME	NT OF Q1E51G003R07:			
-	INSTALLED:	a) Mechanical snubber b) PSA-3 S/N 13051 c) 6000 lbs. d) Class 2 e) various			
		f) Q1E51G003H07 g) HL-1347B h) Aux. Bldg. Area 7 i) Bergen-Paterson j) Laconia, N.H			
		k) 1801106-05 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			
AE.	REPLACEMENT OF Q1E12G014R04:				
-	INSTALLED:	a) Mechanical snubber b) PSA-10 S/N 7424 c) 15000 lbs. d) Class 2 e) various			
		f) Q1E12G014R04 g) HL-1348E h) Aux. Bldg. Area 8 i) Bergen-Paterson j) Laconia, N.H.			
-		k) 1801103-07 I) N/A m) ASME Section III, Subsection NF, 1974 Edition			
		n) Code Cases N-225 and 1644-7 apply			



ORIGINAL

NIS-2 NO. 00343

OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE

ECHELON ONE P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150

UNIT: GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

AF.	REPLACEME	NT OF Q1E12G013R05:			
	INSTALLED:	a) Mechanical snubber b) PSA-3 S/N 13122 c) 6000 lbs. d) Class 2 e) various			
		f) Q1E12G013R05 g) HL-1348D h) Aux. Bldg. Area 7 i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801106-05 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			
AG.	REPLACEME	NT OF Q1E12G014C03:			
	INSTALLED:	a) Mechanical snubber b) PSA-1 S/N 9418 c) 1500 lbs. d) Class 2 e) various			
		f) Q1E12G014C03 g) HL-1348E h) Aux. Bldg. Area 7 i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801102-05 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			
AH.	REPLACEME	NT OF Q1E12G012R04:			
	INSTALLED:	a) Mechanical snubber b) FS-10 S/N 14374 c) 15000 lbs. d) Class 2 e) various			
	100 COLUMN TO STATE OF THE TOTAL	f) Q1E12G012R04 g) HL-1348A h) Aux. Bldg. Area 7 i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801103-07 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) Code Cases 1644			
-		and 1818 apply			
AI.	REPLACEMENT OF Q1E12G016R02:				
	INSTALLED:	a) Mechanical snubber b) PSA-3 S/N 13047 c) 6000 lbs. d) Class 1 e) various			
		f) Q1E12G016R02 g) HL-1347T h) Drywell Elev 143" i) Bergen-Paterson j) Laconia, N.H.			
-		k) 1801106-05 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			
AJ.	REPLACEME	NT OF Q1E51G004R14:			
	INSTALLED:	a) Mechanical snubber b) PSA-10 S/N 7573 c) 15000 lbs. d) Class 1 e) various			
		f) Q1E51G004R14 g) HL-1347A h) Drywell Elev 152' i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801103-07 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			
AK.	REPLACEMENT OF Q1E12G010R07:				
	INSTALLED:	a) Mechanical snubber b) PSA-10 S/N 7497 c) 15000 lbs. d) Class 2 e) various			
-		f) Q1E12G010R07 g) HL-1348B h) Aux. Bldg. Area 8 i) Bergen-Paterson j) Laconia, N.H.			
-		k) 1801103-07 l) N/A m) ASME Section III, Subsection NF, 1974 Edition n) Code Cases N			
		225 and 1644-7 apply			



NIS-2 NO. 00343

OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE

P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150

UNIT: COMMERCIAL OPERATION DATE: JULY 1, 1985

AL.	REPLACEME	ENT OF Q1E22G003R04:			
	INSTALLED:	a) Mechanical snubber b) PSA-10 S/N 7512 c) 15000 lbs. d) Class 1 e) various			
		f) Q1E22G003R04 g) HL-1349B h) Dryweil Elev 149' i) Bergen-Paterson j) Laconia, N.H			
	. Trainfar La	k) 1801103-07 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) Code Cases N			
		225 and 1644-7 apply			
AM.	REPLACEME	N1' OF Q1E51G004R13:			
	INSTALLED:	a) Mechanical snubber b) PSA-10 S/N 14377 c) 15000 lbs. d) Class 1 e) various			
		f) Q1E51G004R13 g) HL-1347A h) Drywell Elev 167 i) Bergen-Paterson j) Laconia, N.H			
		k) 1801103-07 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) Code Cases 1644			
		and 1818 apply			
AN.	REPLACEME	NT OF Q1E51G004R14:			
	INSTALLED:	a) Mechanical snubber b) PSA-10 S/N 7570 c) 15000 lbs. d) Class 1 e) various			
		f) Q1E51G004R14 g) HL-1347A h) Drywell Elev 152' i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801103-07 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			
AO.	REPLACEMENT OF Q1E51G001R20:				
	INSTALLED:	a) Mechanical snubber b) PSA-10 S/N 14370 c) 15000 lbs. d) Class 1 e) various			
		f) Q1E51G001R20 g) HL-1346A h) Dryweil Elev 133' i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801103-07 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) Code Cases 1644			
		and 1818 apply			
AP.	REPLACEME	NT OF Q1E22G003R03:			
	INSTALLED:	a) Mechanical snubber b) PSA-10 S/N 7562 c) 15000 lbs. d) Class 1 e) various			
		f) Q1E22G003R03 g) HL-1349B h) Drywell Elev 149' i) Bergen-Paterson j) Laconia, N.H			
-		k) 1801103-07 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			
AQ.	REPLACEME	NT OF Q1B21G026R01:			
-	INSTALLED:	a) Mechanical snubber b) PSA-100 S/N 1027 c) 120,000 lbs. d) Class 1 e) various			
		f) Q1B21G026R01 g) HL-1328J h) Drywell Elev 143' i) Bergen-Paterson j) Laconia, N.H.			
-		k) 1801119-11 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			



NIS-2 NO. 00343

PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150

UNIT:

COMMERCIAL OPERATION DATE: JULY 1, 1985



OWNER: ENTERGY OPERATIONS, INC.

P.O. BOX 31995 JACKSON, MS 39286-1995

ECHELON ONE

	NAMES OF THE OWNER				
AR.	REPLACEME	NT OF Q1B21G026R04:			
	INSTALLED:	a) Mechanical snubber b) PSA-35 S/N 7841 c) 50,000 lbs. d) Class 1 e) various			
		f) Q1B21G026R04 g) HL-1328J h) Drywell Elev 153' i) Bergen-Paterson j) Laconia, N. i.			
		k) 1801112-11 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			
AS.	REPLACEME	NT OF Q1E12G012R18:			
	INSTALLED:	a) Mechanical snubber b) PSA-35 S/N 8114 c) 50,000 lbs. d) Class 1 e) various			
		f) Q1E12G012R18 g) HL-1348A h) Drywell Elev 133 i) Bergen-Paterson j) Laconia, N.H.			
		k) 1801112-11 I) N/A m) ASME Section III, Subsection NF, 1974 Edition n) No Code Cases			
		apply			
AT.	REPLACEME	NT OF Q1B33G006S369B:			
	INSTALLED:	a) Hydraulic snubber b) 100 kip S/N 019 c) 100,000 lbs. d) Class 1 e) various			
		f) Q1B33G006S369B g) FSK-P-1012-M.001-C h) Drywell i) E-Systems, Montek Division			
		j) Salt Lake City, Utah k) P/N 152010 I) N/A m) ASME Section III, Division I, 1974 Edition,			
		Summer 1975 Addenda n) Code Cases 1644-4, 1682-1 and 1706 apply			
AU.	REPLACEMENT OF Q1B21G006S104D:				
	INSTALLED:	a) Hydraulic snubber b) 50 kip S/N 169 c) 50,000 lbs. d) Class 1 e) various			
		f) Q1B21G006S104D g) FSK-P-1013-M.001-C h) Drywell i) E-Systems, Montek Division			
		j) Salt Lake City, Utah k) P/N 152005 l) N/A m) ASME Section III, Division I, 1974 Edition.			
		Summer 1975 Addenda n) Code Cases 1644-4, 1682-1 and 1706 apply			
AV.	REPLACEME	NT OF Q1E51G004R14:			
	INSTALLED:	a) Retainer pin (load pin) from snubber pipe clamp b) 14" c) 15,000 lbs. d) Class 1			
		e) SA-193 Gr B7 f) Q1E51G004R14 g) HL-1347A h) Drywell Elev. 152' i) Bergen-Paterson			
		j) Laconia, N.H. k) P/N 6202-15N-14 l) N/A m) ASME Section III, Subsection NF, 1974			
		Edition with no addenda n) Code Cases 1644-10 and 1818 apply.			
AW.	REPLACEMENT OF Q1E51G004R14:				
	INSTALLED:	a) Retainer pin b) 1" c) N/A d) Class 1 e) SA-564, TYPE 630 f) Q1E12G004R14			
		g) HL-1347A h) Drywell Elev. 152' i) Pacific Scientific j) Anaheim, Ca. k) 1801341-07 l) N/A			
		m) ASME Section III, Subsection NF, 1980 Edition, Summer 1982 Addenda n) Code Case			
		N71-7 is applicable.			



NIS-2 NO. 00343

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE

P.O. BOX 31995 JACKSON, MS 39286-1995

PLANT: GRAND GULF NUCLEAR STATION

P.O. BOX 756 PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

AX.	REPLACEMENT OF Q1B21G153R02:					
	INSTALLED:	a) Pin. Snubber Bracket b) 375" diameter c) N/A d) Class 1 e) SA-564 Type 630				
		f) Q1B21G153R02 g) FSK-H-1077A-023C h) Drywell Elev. 175' i) Pacific Scientific				
		j) Anaheim, Ca. k) 1801341-01 l) N/A m) ASME Section III, Subsection NF, 1980 Edition				
		Summer 1982 Addenda n) Code Case N71-7 applies				
AY.	REPLACEME	NT OF Q1B21G026R04:				
	INSTALLED:	a) Pin, Snubber Bracket b) 1.5" diameter c) N/A d) Class 1 e) SA-564 Type 630				
		f) Q1B21G026R04 g) HL-1328J h) Drywell Elev. 153' i) Pacific Scientific j) Anaheim, Ca				
		k) 1801341-11 I) N/A m) ASME Section III, Subsection NF, 1980 Edition, Summer 1982				
		Addenda n) Code Case 1644-5 applies				
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ENTERGY

OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE

P.O. BOX 31995

GRAND GULF NUCLEAR STATION P.O. BOX 756

NIS-2 NO.

PORT GIBSON, MS 39150

UNIT: GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

JACKSON, N	rs 39286-1995				
and corrective mea	sures taken or reco	mmended.)			ge from the first stage of
the seal. The folio	wing test and exa	mination was perfor	rmed:		
System	Leakage Test & V	T-2 Visual Examinat	tion: W.O. # 14683	4. Completed: 6/19/	95
Section in the Contract of the	The second secon			Completed 6/15/95	
-					
		Andrew Company of the			
4444					
	POP OF THE PROPERTY OF THE PRO			har against son against	d oc etc.) algame, bleize
c)capacity d)cla	ss e)material f)MPL No. g)drawing Board No. m)Const	s h)location i) ruction Code Edition	manufacturer's name n & Addenda n)Code C	d or etc.) a)name b)size j)manufacturer's address ase no. 0,000-50,000 GPM. Flow
Rating: 44,600 GF	PM d) 1 e) Pump	Case: SA351 GR.	CF8M f) Q1B33C	001A g) Byron Jacks	son Dwg. # IF-7836 Rev.
D h) CTMT, Dry	well, EL 100' i) f	Byron Jackson Pur	p Division (Borg-W	Varner Corp.) j) Los	Angeles, CA
k) Q1B33C001A:	S/N 741-S-1276	I) N/A m) ASME S	Section III, 1971 Ed	lition, Summer 1973	Addenda n) N/A
2. Replacement:	a) Seal Cartrido	e Assembly b-n)	Same as item 1 ex	ccept for e) Seal Fla	ange: SA351 GR.CF8
g) Byron Jackson	Dwg. No. IE-381	7 Rev. A k) Remov	ved: S/N 741-1370	Installed: S/N 813-S	6-6777-1
		ugalia ana ana ana ana ana ana ana ana ana a	and and antena	the rules of ASME Spi	ction XI, Division I, 1977
Edition with Summ	er, 1979, Addenda.			the rates of ASPE Sec	
Signed: 10	Owner Representat	ive	e 8/16/95	Title: Testing	/Inspection Programs Supv.
		CERTIFICATE OF	INSERVICE INSE	ECTION	MANAGEM MANAGEM (MANAGEM AND

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Date 8-17-95

Commissions MS. 600 National Board, State, Province and Nos.



(GD)

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756

PORT GIBSON, MS 39150

NIS-2 NO. 00345 -

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS:(Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.)
Replacement: Explosive actuated valve Q1C41F004B in the Standby Liquid Control (SLC) System was rebuilt after firing
of the explosive charge during an operability surveillance test. A new valve replacement kit was installed and the valve
was reinstalled in the system. The following test and examination was performed:
System Functional Bench Test with a VT-2 Visual Examination on the Trigger body to valve mechanical
connection: 4/25/95
Maintenance Leak Test with a Visual Examination on the Inlet Flange connection: 6/1/95
Surveillance Operability Test: 6/1/95
Work was Completed under Maintenance Work Order # 130206: Completed 6/1/95
COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's I.D. no. ()National Board No. m)Construction Code Edition & Addenda n)Code Case no. 1. Component: a) Explosive Actuated Valve b) 1½" NPS c) N/A d) 2 e) ASME SA 479, Type 304L f) Q1C41F004B g) CONAX Dwg. #1832-159 Rev.0 h) CTMT, Area 11, El. 185' i) Conax Buffalo Corp. j) Buffalo, NY k) S/N 24, C/N 279 l) 111 m) ASME Section III, 1971 Edition, Winter 1972 Addenda n) N/A 2. Replacement: a) Explosive Valve Replacement Kit d) 1 b,c,g,h,i,j) Same as Item 1 e,f,k,l) See the Table on
Page 2
(Continued on Page 2)
We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division I, 1977 Edition with Summer, 1979 Addenda. Date 7/12/97 Title: Testing/Inspection Programs Supv.
CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Inspector's Signature Date 7-17-45 Commissions MS. GCO National Board, State, Province and Nos.



NIS-2 NO.

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995

JACKSON, MS 39286-1995

GRAND GULF NUCLEAR STATION P.O. BGX 756 PORT GIBSON, MS 39150 PLANT:

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

Explosive Valve Replacement Kit k) P	/N N-27006-03: G.E. S/N	of the kit: Removed/Installed
, expressive valve replacement in Ny .)		0287-EQ 0407-EQ
The Kit Installed Consists		
Name	e) Material	k) Part No.
Trigger Body	SA-479, Type 304 SST	N-38018-01
Ram	SA-564, Type 630, Cond. /	
inlet Fitting	SA-479, Type 304 SST	N-38017-01B
*Primer Chamber Body	SA-479, Type 304 SS	N-38062-01
*Non-Pressure Retaining	Part	
Name	**k,I) S/N & N/B#: Removed/Ir	nstalled
*Trigger Subassembly	3611	4419
Inlet Fitting	3584	4394
*Trigger Subassembly Inc	ludes the Trigger Body and Ram	1.
**The National Board No.	is the same as the MFR.'s Serial	No.
m) Construction Code Ed	ition & Addenda for Each Part in	the Kit:
ASME Section III, Class 1	, 1977 Edtion through Summer, 1	1977 Addenda
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RS/REPLACEMENTS



THE RESIDENCE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.

OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756

P.O. BOX 756 PORT GIBSON, MS 39150 UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.) Repair: Testable Check Valve Q1E12F041C for the Low Pressure Core Injection "C" System (LPCI C) was found to be
leaking from the gasket seating surface of the bearing cover. The leakage was determined to be caused by an insufficient
gasket seal. Material Nonconformance Report 0344/93 was initiated to document the problem and provide corrective
action. The bearing cover was removed and machined .025" to allow total gasket compression. The bearing cover was
reinstalled and the following tests and examinations were performed:
Preservice VT-3 Visual Examination on the machined areas of the bearing cover: 4/26/95
System Leakage Test with VT-2 Visual Examination of the bearing cover Mechanical Connection: 5/23/95
Surveillance Operability Test: 4/27/95
Work Performed Under Maintenance Work Order No. 122299: Completed 5/28/95
COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size
c)capacity d)class e)material f)MPL No. g)drawings h)location 1)manufacturer's name j)manufacturer's address k)manufacturer's 1.D. no. ()National Board No. m)Construction Code Edition & Addenda n)Code Case no. 1. Component: a) Testable Check Valve b) 12" c) N/A d) 1 e) SA 216 Gr. WCC f) Q1E12F041C g) Vendor
Dwg. No. 13615-04-H Rev. 2 h) CTMT., Area 11, El. 166' i) Atwood & Morrill Co., Inc. j) Salem, MA k) S/N 5-13615
I) N/A m) ASME Section III, 1974 Edition through Summer, 1974 Addenda n) N/A
2. Repaired: a) Bearing Cover b-n) Same as Item 1 except for e) SA350 Gr. LF-2 k) Heat # 214037
We certify that the statementa made in this report are correct and conform to the rules of ASME Section XI, Division I, 1977 Edition with Summer, 1973, addenda.
Signed: Date 7/11/97 Title: Testing/Inspection Programs Supv.
CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Jonat R. Biving

Date 7-12-95

Commissions MS. 600 National Board, State, Province and Nos.





ENIERGI

OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE P.O. BOX 31995

JACKSON, MS 39286-1995

NIS-2 NO. 00347

PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756

PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS:(Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.) Replacement: During rebuild of a spare Control Rod Drive (CRD) Assembly, a ring flange capscrew was found to be
missing Material Nonconformance Report (MNCR) No. 0038/95 was initiated to document the problem and provide
corrective action. The capscrew was replaced and the CRD was put in dry lay-up storage. The following examination was performed.
VT-1 Visual Examination: 2/22/95
Work was performed under Maintenance Work Order No. 137289: Completed 5/14/95
COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address
k)manufacturer's I.D. no. L)National Board No. m)Construction Code Edition & Addenda n)Code Case no. 1. Component: a) Control Rod Drive Assembly b) Flange: 3.37"T. x 9% "OD c) N/A d) 1 e) Flange: SA182 F304
f) Q1B13D008 g) G.E. Dwg. No. 768E534G001 h) Reactor Vessel Bottom i) General Electric Co. j) San Jose, CA
k) Model No. 7RDB144DG001, S/N 9608 I) N/A m) ASME Section III, 1971 Edition, Summer 1973 Addenda n) 1361-2
2. Replacement: a) Ring Flange Capscrew b) 1½" x 2"L c) N/A d) 1 e) SA193 Gr. B6 f-m) Same as Item 1 except for k) Material Code: FT-7, Heat No. 526107 n) N/A
We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division I, 1977 Edition with Summer, 1979, Assertable 1979, Asserta
Date 7/1/91 Title: Testing/Inspections Programs Supv.
CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINE	ERI	NG
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National Board, State, Province and Nos.





NIS-2 NO. 00348

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995

JACKSON, MS 39286-1995

PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756

PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.) Repair: Per the Check Valve Maintenance and Trending Program, Residual Heat Removal (RHR) Check Valve Q1E12F019
was internally inspected and found to have pitting indications 1/64" deep on the valve cap. Material Nonconformance
Report 0092/95 was initiated to document and provide a corrective action. The valve cap was machined 1/32" to remove
pitting. The following tests and examinations were performed:
pating. The tonowing today and principles.
Inservice VT-3 Visual Examination of the valve body internal surface: 4/20/95
System Leakage Test with a VT-2 Visual Examination: 6/1/95
Work was performed under Maintenance Work Order No. 129856: Work Completed 6/1/95
COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's I.D. no. l)National doard No. m)Construction Code Edition & Addenda n)Code Case no. 1. Component: a) Lift Check Valve b) 6" c) 900# d) 1 e) Body: SA216 Gr. WCB f) Q1E12F019 g) Dwg. No.
044363-1 h) Aux. Bldg., Area 8, El. 119' i) The William Powell Co. j) Cincinnati, OH k) S/N 68871-1, Body: Heat No.
2854 I) N/A m) ASME Section III, 1971 Edition through Winter 1972 Addenda n) N/A
Repaired: a) Valve Cap b-n) Same as Item 1 except for e) SA515 Gr. 70 k) Heat No. 802P69240
We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division I, 1977 Edition with Summer, 1979, Addusted. Date 7/11/91 Title: Testing/Inspection Programs Supv.
Owner Representative

CERTIFICATE OF INSERVICE INSPECTIC

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Inspector's Signature

Date 7-13-95

Commissions 15.600 National Boar 1. State, Province and Nos.



OWNER: ENTERGY OPERATIONS, INC.

P.O. BOX 31995

JACKSON, MS 39286-1995

ECHELON ONE

NIS-2 SUMMARY REPORT FOR REPAIRS/REPLACEMENTS

NIS-2 NO. 00349'

P.O. BOX 756

PORT GIBSON, MS 39150

GRAND GULF NUCLEAR STATION

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include types and completion dates of tests, examinations,	work	completed
and corrective measures taken or recommended.)		
PERS ACEMENT. Reactor Core Indiation Cooling (RCIC) Valve O1 F51 F025 was found with a nacking leak	Whe	an the leal

REPLACEMENT: Heactor Core Isolation Cooling (HCIC) Valve Q1E51F025 was found with a par did not stop after retorquing the packing gland to the maximum allowed and due to time constraints, several valve parts were replaced to stop the leakage. The following examination and tests were performed:

System Functional Test with a VT-2 Visual Examination: 3/1/95

Surveillance Operability Test: 3/1/95

Work was performed under Maintenance Work Order# 131358: 3/1/95

COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's i.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no. 1. COMPONENT: a) Valve b) 11/2" NPS c) N/A d) 2 e) SA-217 WC-9 f) Q1E51F025 g) Mfr.'s Dwg. #53A5222

Rev. D h) Aux, Bldg., Area 7, El. 93' i) Fisher Controls, Inc. j) Marshalltown, IA k) S/N 6468621 l) 5954 m) ASME

Section III, 1974 Edition, no addenda n) N/A

b.c.d.f.g.h.i.j.l.m.n) Same as Item 1 above. 2. REPLACEMENTS: a.e.k) See Table below

a) Vaive Part	e) Ty	pe Material	k)		Removed	Installed
Bonnet	SA	-217, Gr. WC9	S/N:		1757-C1	8732-C5
Bonnet Flange	SA	-217, Gr. WC9	Ht#: 2	2516,	Code#: 2401	2516, 2396
Valve Plug (disc)	A2	76-72, Type 440C	Ht#:		79441-1	79441-1
Pipe Plug	SA	-479, Type 316	Ht#:		76170-1	76170-1

we certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division 1, 1977 Edition with Summer, 4979, Addende.

grand 95 Signed:

make Owner Representative

Title: Testing/Inspection Programs Supv.

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Date 7-13-95

MS 600 Commissions National Board, State, Province and Nos.



NIS-2 NO. 00350 RG

OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE

P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150 UNIT: GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.) Repair: Outboard Containment Isolation Check Valve No. Q1B21F032B for the B-Feedwater Line, was being disassembled for implementation of Design Change Package (DCP) 94/0003 (See NIS-2-00352). During disassembly, eroded areas were found on the gasket seating areas of both stuffing box flange connections. Material Nonconformance Report (MNCR) 0072-95 was initiated to doc, nent the eroded areas and provide corrective action. The stuffing box flanged faces were machined to the extent needed to remove the eroded areas and the end of the stuffing box that goes into the body was also cut back an equal amount to that removed from the flange face. The repair restored the valve to within the original design requirements and eliminated the eroded areas to prevent further leakage. The following examinations were performed: Preservice VT-3 Visual Examination on both sides stuffing box flanged face prior to machining: 04/23/95 Liquid Penetrant Examination on the final machined surfaces of the stuffing box flange faces: 04/24/95 Work performed under Work Order #142975: Completed 04/27/95 COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's I.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no. Component: a) Swing Check Valve b) 24" NPS c) N/A d) 1 e) Body: SA-352 Gr. LCB f) Q1B21F032B q) Mfr.'s Dwg. # 13615-01-H Rev. 8 h) Aux. Bldg., Area 8, Elev. 139' i) Atwood & Morrill Co., Inc. j) Salem, MA k) S/N: 2-13615 I) N/A m) ASME Section III, 1974 Edition, Summer 1974 Addenda n) N/A Repaired: a) Stuffing Boxes b-n) Same as above except for: i) Quaker Alloy Casting Co. j) Myerstown, PA k) S/N 2-13615 & 4-13615 we certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division 1, 1977 1979 Addenda. Edition with Summer, Title: Testing/Inspection Programs Supv. Signed: Cum 95 Owner Representative

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

National Board, State, Province and Nos.

Assa AR Suing

Date 7-14-95



NIS-2 NO. 00351



OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995 JACKSON, MS 39286-1995 GRAND GULF NUCLEAR STATION P.O. BOX 756

PORT GIBSON, MS 39150

GRAND GULF ONE UNIT: COMMERCIAL OPERATION DATE: JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.)

Modification: The Condensate drain line from RCIC steam supply drain pot to the H.P. Condenser was found to have significant pipe wall thinning. The cause of the pipe wall thinning was determined to be Flow Accelerated Corrosion (FAC). To prevent further FAC, the section of piping was replaced with an erosion resistant alloy steel. Chromium-Molybdenum. During disassembly and reassembly of supports, some studs and nuts were replaced because they had to be cut off to remove the supports. The following tests and examinations were performed:

VE-1 Visual Examinations on Pipe Welds: 4/13-26/95

Magnetic Particle Testing Examinations: 5/2/95

Radiography Examinations of Pipe Welds: 4/28/95 & 5/2/95

System Leakage Test with VT-2 Visual Examinations: 6/20/95 (Performed under W.O.# 94/1049 CI# 47620) Surveillance Operability Test: 6/6/95 (For Q1E51F025 & -F026); 6/21/95 (for Q1E51F054 under CI# 47620)

Work Completed Under Modification Work Permit No. 19941049 CI# 47888

COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's 1.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no.

- 1. Replacement: a) Pipe b) 11/2" Sch. 160 c) N/A d) 1 e) Chrome Molly, SA335 Gr. P22 f) Was DBB-52 & 54; Now is DAB-1 & 2 g) FSK-S-KA1083B-012-B h) Aux. Bldg., Area 8, El. 93' i) Energy & Process Corp. j) Tucker, GA k) Heat # 385211 |) N/A m) ASME Section III, 1980 Edition, Summer 1982 Addenda n) N/A
- 2. Replacement: a) Elbow Pipe b-n) Same as Item 1 except for e) Chrome Molly, SA234 Gr. WP22 k) Heat # 9072A
- 3. Replacement: a) 90" Pipe Reducer Tee b) 11/2" x 11/2" x 3/4" c-n) Same as Item 2 except for k) Heat # 195
- 4. Replacement: a) Heavy Hex Nuts (8 ea.) b) 1/2"-13 c) N/A d) 1 e) SA194 Gr. 2H f) Q1E51G140C01, -C02
- & -H03 g) FSK-H-KA1083B-012-B h) Same as Item 1 i) Cardinal Industrial Products i) Las Vegas, NV k) Heat # KC8972 I) N/A m) ASME Section III, 1986 Edition, No Addenda n) N/A

We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division I, 1977 Edition with Summer 1979. Addenda.

WUS Signed: 10.95

Cuner Representative

Title: Testing/Inspection Programs Supv.

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section X1. By signing this certificate neither the inspector nor him employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Commissions MS 600 National Board, State, Province and Nos.

Burns Inspector's fignature

Date 8 24 - 95



OWNER: ENTERGY OPERATIONS, INC.

P.O. BOX 31995

JACKSON, MS 39286-1995

ECHELON ONE

NIS-2 SUMMARY REPORT FOR REPAIRS/REPLACEMENTS.

NIS-2 NO. 00351

NT: GRAND GULF NUCLEAR STATION P.O. BOX 756

PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

(Continued from Page 1) Component Information: 5. Replacement: a) All Thread Stud (1 ea.) b) %"-11 x 4" c) N/A d) 2 e) SA193 Gr. B7 f-j) Same as Item 4 k) Heat # 8096740 I) N/A m) ASME Section III, 1980 Edition, through Summer 1982 Addenda n) N/A 6. Replacement: a) Heavy Hex Head Bolts (5 ea.) b) 1/2"-13 x 2" c-n) Same as Item 4 except for e) SA307 Gr.B i) HUB INC. j) Tucker, GA k) Heat # 8889290 m) ASME Section III, 1977 Edition, through Winter 1979 Addenda 7. Replacement: a) Heavy Hex Nuts (4 ea.) b) % "-11 c-n) Same as Item 4 except for i) Energy Process Corp. j) Tucker, GA k) Heat # 8079196; Heat Code: C9N m) ASME Section III, 1980 Edition, Summer 1982 Addenda



NIS-2 NO. 00352

OWNER: ENTERGY OPERATIONS, INC.

P.O. BOX 31995

JACKSON, MS 39286-1995

PLANT: GRAND GULF NUCLEAR STATION

P.O. BOX 756

PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.)

Modification: During Refueling Outage No. 7, Outboard Containment Isolation Feedwater Check Valves Q1B21F032A and B were modified by replacing the one-piece disc/arm assembly with a two-piece disc/arm assembly to eliminate the excessive seat leakage problem that has caused poor Local Leak Rate Test results as documented in Material Nonconformance Report (MNCR) No. 0177-93. The design change will improve the sealing capabilities of the Feedwater Check Valves by allowing for an easier alignment of the disc to valve body seat during installation and allow for a slight automatic adjustment during operation if wear or slippage occurs. The new discs are stainless steel with stainless steel seats. The existing Stellite valve body seats were not replaced. The following tests and examinations were performed:

Preservice VT-3 Visual Examinations on both valve's internals: 5/8/95 (-F032A) & 4/24/95 (-F032B)

Local Leak Rate Tests: 6/2/95 (-F032A), 5/31/95 (-F032B)

System Leakage Tests with VT-2 Examinations: 6/19/95 (-F032A) & 6/11/95 (-F032B)

Valve Operability Tests: 6/23/95

Work performed under Modification Work Permit No. 19940003, Supplement 1; CI#'s 44436 & 44438; Completed 6/6/95

COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's I.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no.

- 1. Component: a) Swing Check Valves b) 24" NPS c) N/A d) 1 e) Body: SA352 Gr. LCB f) Q1B21F032A & B q) Mfr.'s Dwg.# 13615-01-MH Rev.1 h) Aux. Bldg., Area 8, Elev. 139' i) Atwood & Morill Co., Inc. j) Salem, MA k) Q1B21F032A: S/N 1-13615 & Q1B21F032B: S/N 2-13615 l) N/A m) ASME Section III, 74'Ed. to S'74 Add. n) N/A
- 2. Removed: a) C _e-Piece Discs _ b-n) Same as Item 1 except for _g) Mfr.'s Dwg.# 13615-01-H Rev. 8 k) Q1B21F032A: S/N 2, Ht.# 12',15; Q1B21F032B: S/N 1-30934, Ht.# 348085
- 3. Installed: a) Two-Piece Disc Weldments (Disc Modification Kits) 2 ea. b-n) Same as Item 1 except for e) Disc: SA240 GR.316 g) Mfr.'s Dwg.#43336-042-D Rev.0 k) Q1B21F032A: S/N 2, Ht.# 763551-39941; Q1B21F032B: S/N 1, HT.#

763551-39941

PAUL 8-45

we certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division I, 1977 Edition with Summer 1979, Accepta

Signed: Con

Omer Representative

Date 8/28/95

Title: Testing/Inspection Programs Supv.

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, excressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Date 8-31-95 Commissions MS 600
National Board, State, Province and Nos.

FORM NISZPIRE

REVISED: 2/16/93



NIS-2 NO. 00353

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995

JACKSON, MS 39286-1995

GRAND GULF NUCLEAR STATION

P.O. BOX 756

PORT GIBSON, MS 39150

UNIT: GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.)

Modification: Stop Check Valve Q1E51F021 was changed to a Globe valve by replacing the existing stem and disc assembly with a stem and disc from a compatible spare globe valve. This modification was made in order to remove the valve from the Pump and Valve program and eliminate the requirement for demonstration of operation. Also the backseat bushing was replaced with the backseat bushing from the spare valve for preventative maintenance. The following test and examination was performed:

Maintenance Leak Test with a Visual Examination of the Mechanical Connections: 6/10/95 (Under W.O.# 142853) Work was performed under Modification Work Permit No. 19911031 Cl# 34867: Work Completed 7/12/95

COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's I.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no.

- 1. Component: a) Stop Check Valve b) 2" c) N/A d) 1 e) Body: SA105 f) Q1E51F021 g) Yarway Valve Dwg. 104127-01 h) Aux. Bidg., Area 8, El. 93' i) Yarway Corp. j) Blue Bell, PA k) Valve: S/N 2860 l) N/A m) ASME Section III, 1974 Edition through Winter 1974 Addenda n) N/A
- 2. Removed: a) Disc b-n) Same as Item 1 except for e) AMS 5382 k) Heat Code # A5
- 3. Installed: a) Disc (from Globe Valve S/N A6335) b-n) Same as Item 2 except for g) Yarway Valve Dwg. 103271-05 k) Heat Code # C5
- 4. Removed: a) Backseat Bushing b-n) Same as Item 1 except for e) SA193 Gr. B7 k) Heat Code # YW597
- 5. Installed: a) Backseat Bushing (from Globe Valve S/N A6335) b-n) Same as Item 1 except for e) SA182 Gr.

F6 k) Heat Code # YW795

We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division 1, 1977

Edytion with Summer, 1979, Addends.) Owner Representative

Date

Title: Testing/Inspection Programs Supv.

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Commissions MS 600 National Board, State, Province and Nos.

s Signature

Date 8-23-95



OWNER: ENTERGY UPERATIONS, INC.

ECHELON ONE P.O. BOX 31995

PLANT: GRAND GULF NUCLEAR STATION

P.O. BOX 756

PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

	JACKSON, MS 39286-1995
	ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.) Replacement: After a failed surveillance test, Check Valve Q1P53F008 and associated piping was cut from the weld and
	removed. During removal, the pipe strap on support Q1P53G525C01 was damaged. Upon reinstallation of the valve and
	associated components, a pipe strap which did not meet code material requirements was installed. Material
	Nonconformance Report (MNCR) No. 95/0235 and Quality Deficiency Report (QDR) # 95-0171 was initiated to document
	the problem and provide corrective action. The following tests and examinations were performed:
	VE-1 Visual and Liquid Penetrant Examination on pipe weld: 5/13,14/95
	VE-2 Visual Examination on Support weld: 5/14/95
	System Leakage Test with a Vt-2 Visual Examination on pipe weld (in lieu of Hydrostatic Test per Code Case
	N-416-1): Completed 5/25/95
	Surveillance Operability Test: 5/16/95
	Local Leak Rate Test: 5/16/95
	Work Performed under Maintenance Work Order No. 142915: Completed 5/25/95
	COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's i.b. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no. 1. Reinstalled: a) Pipe b) 2" NPS c) N/A d) 2 e) SA-312, Type 304L f) 2"-HCB-51 q) FSK-S-1067A-181-C h) CTMT. Area 11, El. 148' i) Sandvik, Inc. j) Scranton, PA k) Heat # 463520 l) N/A m) ASME Section III, 1977 Edition through Summer 1977 Addenda n) N/A
-	We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division I, 1977 Edition with Summer, 1979, Addends. Signed: Date 3./5. Title: Testing/Inspection Programs Supv. Dwner Representative
	CERTIFICATE OF INSERVICE INSPECTION

1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Commissions MS 600 National Board, State, Province and Nos.

Date 8-3/-95



OWNER: ENTERGY OPERATIONS, INC.

P.O. BOX 31995

70284-1005

ECHELON ONE

NIS-2 SUMMARY REPORT FOR REPAIRS/REPLACEMENTS.

NIS-2 NO. 00355

ANT: GRAND GULF NUCLEAR STATION P.O. BOX 756

PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

Shokson, Ho Stepo 1775
ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS:(Include types and completion dates of tests, examinations, work completed and corrective measures taken or recommended.) Replacements: During inspection of Stop Check Valve Q1E51F047, the valve disc and stem were found to have cut
and pitting. Material Nonconformance Report (MNCR) No. 0076/95 was initiated to document the problem and provide
corrective action. The disk and stem assembly was replaced. Also the backseat bushing was replaced as a preventative
maintenance measure. The following tests and examinations were performed:
System Functional Test with a VT-2 Visual Examination of the Mechanical Connections: 6/20/95
Surveillance Operability Test: 6/11/95 (Under W.O. # 141027)
Replacement Work Performed Under Maintenance Work Order No. 142874: Completed: 6/20/95
(Note: Valve disassembly, inspection of valve internals, and reassembly was done under W.O.# 141027)
COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)siz c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's I.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no. 1. Component: a) Stop Check Valve b) 2" c) N/A d) 1 e) Body: SA105 f) Q1E51F047 g) Yarway Valve Dwo
104127-01 h) Aux. Bldg., Area 7, El. 99' i) Yarway Corp. j) Blue Bell, PA k) Valve: S/N 2859 l) N/A m) ASMI
Section III, 1974 Edition through Winter 1974 Addenda n) N/A
2. Removed: a) Disc b-n) Same as Item 1 except for e) AMS 5382 k) Heat Code # A5
3. Installed: a) Disc b-n) Same as Item 2 except for g) Yarway Valve Dwg. 103271-05 k) Heat Code # 90-1-2-F2
4. Removed: a) Backseat Bushing b-n) Same as Item 1 except for e) SA193 Gr. B7 k) S/N YW597
5. Installed: a) Backseat Bushing b-n) Same as Item 1 except for e) SA182 Gr. F6a k) S/N 6166C
We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division 1, 197
Edition with Summer 1979, Addresses

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summa: y report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Commissions MIS COOD

National Board, State, Province and Nos.

Title: Testing/Inspection Programs Supv.

Poul D. Suins

Date 8-31-95



(G)

NIS-2 NO. 00356

OWNER: ENTERGY OPERATIONS, INC.

P.O. BOX 31995

JACKSON, MS 39286-1995

PLANT: GRAND GULF NUCLEAR STATION

P.O. BOX 756

PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

JACKSON, MS 39286-1995
ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS:(Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.) Modification: During an effort to delete check valve Q1E51F021 from the pump and valve program, it was discovered
that restricting orifice Q1E51D005 did not meet vendor recommended flow requirements. The Sore size of restricting
orifice, Q1E51D005, was increased to 600" to meet flow requirements. The following tests and examinations were
performed:
System Functional Test with a VT-2 Visual Examination of the Mechanical Connection: 6/20/95
Work was performed under Modification Work Permit No. 19911031, Cl # 49378 (Per CN # 95-0061): Completed:
6/21/95
COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's I.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no. Modified: a) Restricting Orifice b) 2" NPS x %"T c) N/A d) 2 e) SA240 TP304 f) Q1E51D005 g) NPE Dwg. #
M-KA143.0-Q1E51D005-1.1-1 Rev. A h) Aux. Bldg., Area 8, El. 93' i) Vickery-Simms, Inc. j) Arlington, TX k) Ht. #
713572 I) N/A m) ASME Section III, 1974 Edition through Winter 1975 Addenda n) N/A
We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division I, 1977 Edition with Summer 1979, Addends Date 871/5: Title: Testing/Inspection Programs Supv.
Owner Representative
CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Small P. Siving

Date 9-1-95

National Board, State, Province and Nos.



MENTS GIVEN

OWNER: ENTERGY OPERATIONS, INC.

P.O. BOX 31995

JACKSON, MS 39286-1995

ANT: GRAND GULF NUCLEAR STATION P.O. BOX 756

NIS-2 NO.

PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS:(Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.)
Repair: Reactor Water Clean Up (RWCU) Supply Header Check Valve Q1G33F052B was found to have a steam cut in
the pressure seal gasket area by internal inspection during Refueling Outage Seven (RFO7). Material Nonconformance
Report (MNCR) No. 95/0157 was intiated to document the problem and provide corrective action. The steam cut was
due to steam leakage from an improperly sealed gasket. The steam cut was weld repaired and machined to meet design
requirements. The following tests and examinations were performed.
System Functional Test with a VT-2 Visual Examination: 5/23/95
Visual (VE-1) Examination on final weld repair after machining: 5/16/95
Liquid Penetrant (PT) Examination on weld repair after machining: 5/16/95
Valve Operability Test: 6/12/95 (Under W.O. # 138999)
Work Performed under Work Order No. 144165, Completed: 6/13/95
component information: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's I.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no. Repaired a) Lift Check Valve b) 6" NPS c) N/A d) 2 e) Body: SA216 Gr. WCB f) Q1G33F052B g) GGNS Drawing
No. 9645-M-242.0-Q1-1.2-129 Rev. 1 h) Auxiliary Building, Area 8, El. 139, Steam Tunnel i) William Powell Co.
j) Cincinnati, OH k) Valve S/N 68888-3; Body CM 2840B I) N/A m) ASME Section III, 1971 Edition through Winter,
1972 Addenda n) N/A
We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division 1, 1977
Edition with Summer, 1979, Addends.
Signed: Title: Testing/Inspection Programs Supv.
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CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Commissions MS 600
National Board, State, Province and Nos.

Date 5-17-95



NIS-2 NO. 00358



OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE P.O. BOX 31995 JACKSON, MS 39286-1995

PLANT: GRAND GULF NUCLEAR STATION

P.O. BOX 756 PORT GIBSON, MS 39150 UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

	Shorton, no State 1772
	ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS:(Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.) Replacement: RCIC turbine steam supply Globe Valve Q1E51F095 was found to have leakage and was disassembled
	with intention to rework. The valve was found to have steam cut damage on the valve seat. In order to access valve
	Q1E51F095, pipe support Q1E51G180H03 was ground out at the weld. Instead of reworking valve Q1E51F095 it was
	replaced and pipe support Q1E51G180H03 was rewelded in place. The following tests and examinations were performed:
	VE-1 Visual Examinations on pipe welds: 4/21/95
	VE-2 Visual Examination on pipe support welds: 4/21/95
	Magnetic Particle Testing on pipe welds: 4/21/95
	Surveillance Operability Test: 6/6/95 & 6/11/95
	System Leakage Test with a VT-2 Visual Examination (in lieu of Hydro per Code Case N-416-1): 6/19/95
	Work performed under Maintenance Work Order No. 139029: Completed: 6/19/95
	COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's I.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no. 1. Removed: a) Globe Valve b) 2" c) N/A d) 1 e) Body: SA105 f) Q1E51F095 g) Yarway Dwg. 104679-02 h) Aux. Bidg. Area 8, El. 93 i) Yarway Corp. j) Blue Bell, PA k) S/N A6545 l) N/A m) ASME Section III, 1974 Edition through Winter 1974 Addenda n) N/A 2. Installed: a) Globe Valve b-n) Same as Item 1 except for k) S/N A7281
	We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division 1, 1977 Edition with Summer, 1979, Addends Signed: Date 8/71/55 Title: Testing/Inspection Programs Supv.
N	

CERTIFICATE OF INSERVICE INSPECTION

1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

inspector's Signature

Date 8-31-95

Commissions MS 600 National Board, State, Province and Nos.



NIS-2 NO. 00359\

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995

PLANT: GRAND GULF NUCLEAR STATION

P.O. BOX 756

PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

JACKSON, MS 39286-1995		
and corrective measures taken or recom	ICATIONS:(Include types and completion date mended.) Reactor Recirculation Pump A was replace	
the seal. The following test and exam	nination was performed:	
System Leakage Test & VT	-2 Visual Examination: 6/19/95	
Work was performed under	r Maintenance Work Order 146834: Compl	leted 6/19/95
c)capacity d)class e)material f)k)manufacturer's I.D. no. l)National	xplicable information and indicate whether rumple No. g)drawings h)location i)manufa Board No. m)Construction Code Edition & Adulation Pump b) 24" x 24" x 35" c) Fl	acturer's name j)manufacturer's address idenda n)Code Case no.
Rating: 44,600 GPM d) 1 e) Pump	Case: SA351 GR. CF8M f) Q1B33C001A	g) Byron Jackson Dwg. # IF-7836 Rev.
D h) CTMT, Drywell, EL. 100' i) By	yron Jackson Pump Division (Borg-Warner	r Corp.) j) Los Angeles, CA
k) Q1B33C001A S/N 741-S-1276 I)	N/A m) ASME Section III, 1971 Edition,	Summer 1973 Addenda n) N/A
2. Replacement: a) Seal Cartridge	Assembly b-n) Same as Item 1 except	for e) Seal Flange: SA351 GR.CF8
g) Byron Jackson Dwg. No. IE-3817	Rav. A k) Removed: S/N 813-S-6777-1; I	Installed: S/N 741-S-1276
We certify that the statements made in	whis report are correct and conform to the	rules of ASME Section XI, Division I, 1977
Edition with Summer, 1979, Adderes	Date 8/1/51	
Signed: Owner Representativ	e pare 9/1/	Title: Testing/Inspection Programs Supv.

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Date 8-31-95

Commissions 115 600 National Board, State, Province and Nos.

FACTORY MUTUAL ENGINEERING





NIS-2 NO. 00360

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756

PORT GIBSON, MS 39150

UNIT: GR

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

ABSTRACT OF RETAIRS/REPLACEMENTS/MODIFICATIONS:(Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.)

Repair/Modification: Check Valve Q1E12F050B failed a Local Leak Rate Test (LLRT) and was disassembled for

inspection. Inspection showed that the valve had uniform wear on the body guide ribs resulting in excess bore diameter tolerance. Material Nonconformance Report (MNCR) 0184/95 was initiated to document the problem and provide corrective action. The valve was repaired by increasing the disc/plug guide ring's diameter to restore the required clearance between the valve bore diameter and the plug diameter. This was accomplished by completely removing the existing stellite on the disc/plug guide rings and weld build up the carbon steel base metal to a larger diameter prior to welding a new stellite overlay. Also, the disc was modified by machining a chamfer on the disc below the seat area to ensure the disc will enter the valve seat with minimal interference. The following tests and examinations were performed:

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	(Continued of	on Page 2)			
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COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's 1.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no.

Component: a) Lift Check Valve b) 12" c) N/A d) 2 e) Body: SA216 Gr. WCB f) Q1E12F050B g) William Powell Dwg. 044481-4 & 5 h) Aux. Bldg., Area 8, El. 130' i) William Powell Co. j) Cincinnati, OH k) Valve: S/N 68478-1 l) N/A m) ASME Section III, 1971 Edition through Winter 1972 Addenda n) N/A

Repaired: a) Disc b-n) Same as Item 1 except for e) SA 516 Gr. 70 k) CM 2110B, Heat # 801X19720

We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division I, 1977

Signed:
Owner Representative

Date 9/5/5/

Title: Testing/Inspection Programs Supv.

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither tipe inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Coustal Biving

Date 9-5-95

Commissions MS 600 National Board, State, Province and Nos.

FACTORY MUTUAL ENGINEERING



NIS-2 NO. 00360

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995 JACKSON, MS 39286-1995

PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

	Magnetic Particle Testing on Stellite Removal Areas: 5/24/95
	VE-1 Visual and Magnetic Particle Examinations on both Guide Rings after build up of base metal: 5/26/98
	VE-1 Visual and Liquid Penetrant Examination on new hardfacing surfaces after final machining: 5/28/95
	Liquid Penetrant Examination on upper guide ring repaired area: 5/30/95
	Local Leak Rate Test: 6/3/95
	Maintenance Leak Test with a Visual Examination: 6/19/95
	Surveillance Operability Test: 6/19/95
Nork wa	as performed under Maintenance Work Order No. 144875: Completed 6/19/95





NIS-2 NO. 00361

OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE

P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150 UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS:(Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.)

Modification: Two spare discs for Inboard Containment Isolation Feedwater Check Valves Q1821F010A and B were reworked to restore the discs to their original dimensions and modified by returning the discs back to metal seats, per Material Nonconformance Report No. 0175-93 during Refueling Outage No. 7 (See NIS-2-00362). The hard facing material, Stellite, on the disc guide rings and seats were replaced with Norem B-1 to support the cobalt reduction program. Also, during the process in removing all stellite from the disc for Q1821F010A, the Lug bolt holes were machined through and into and had to be rewelded, redrilled and tapped. The following examinations were performed: VE-1 Visual & Magnetic Particle Examinations on the removed stellite after machining: 4/3/95(-F010A), 4/5/95(-F010B) VE-1 Visual & Magnetic Particle Examinations on Lug Bolt holes (4) ground open before weiding: 5/11/95(-F010A) VE-1 Visual & Liquid Penetrant Examinations on the 309L cladding after machining: 5/18/95(-F010A), 4/16/95(-F010B) VE-1 Visual & Liquid Penetrant Examinations on the Norem B-1 welds after machining: 5/25/95(-F010A), 5/16/95(-F010B) Work performed under Modification Work Permit No. 19940003, Supplement 1; Ci#'s 48530 & 48533: Completed 6/5/95

COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's 1.D. no. l)Mational Board No. m)Construction Code Edition & Addenda n)Code Case no.

Modified: a) Discs b) For 24" 900# Lift Check Valve c) N/A d) 1 e) SA-516 GR 70 f) For Q1B21F010A & B g) Anchor/Darling Valve Dwg. # 804F05914 Rev.A h) CTMT. Bldg., Area 11, Drywell, El. 143' i) Wm. Powell Co. (Plant #2) j) Cincinatti, OH k) Q1B21F010A: Control Material (CM) # 2561B, Ht. # B1457-4; -F010B: CM# 1453B, Ht. # 802T71440 l) N/A m) ASME Section III, 71'Ed. to W72 Add. n) 1388-2

Medified: a) Disc Guides b,c,d,f,h,i,j,i,m,n) Same as above e) SA-216 GR. WCB g) Same Dwg. as above for the modification and GGNS Dwg.# M-KA242.0-Q1-1.3-31 Rev.A for the Lug Bolt Hole repairs k) Q1B21F010A: Control Material (CM) # 3136B, Ht.# 1252; -F010B: CM# 2933B, Ht.# 1238

We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division 1, 1977 Edition with Summer, 1979, Addendary

Signed: Owner Representative

Date ____

Title: Testing/Inspection Programs Supv.

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Jourland Billing

Date 8-31-95

Commissions MS 600 National Board, State, Province and Nos.





ENTERGY

NIS-2 NO. 00362

OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE

P.O. BOX 31995

JACKSON, MS 39286-1995

GRAND GULF NUCLEAR STATION DI ANT : P.O. BOX 756

PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include types and completion dates of tests, examinations, work completed,

and corrective measures taken or recommended.) Modification: Inboard Containment Isolation Check Valves Q1B21F010A and B have historically experienced problems in meeting the as-found leak testing criteria during normal surveillances conducted every refueling outage. These problems were documented in Material Nonconformance Report (MNCR) No. 0175-93. An engineering evaluation determined the cause was due to internal guide wear which may be attributed to low flow conditions. The inbody guide ribs and disc guide rings were no longer within the original dimensional specifications. In addition, the resilient seats were not providing satisfactory service, with degradation observed on every inspection. During Refueling Outage No. 7 (RFO7), the corrective action was to modify both valves by increasing the width of the lower guide rib to increase the support surface area of the disc in an effort to decrease quide wear. The inbody guides and seats were restored to their original design dimensions and tolerances. Also, the disc replacements were modified (See NIS-2-00361) to return the valve to metal seats. The hardfacing material, Stellite, was removed from the guide ribs and seats to be replaced with Norem B-1 to support the cobalt reduction program. (Note: The application of Norem B-1 hardfacing material for the guide ribs in (Continued on Page 2) Q1B21F010A was deferred until RFO8 for outage scheduling purposes.)

COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's I.D. no. ()National Board No. m)Construction Code Edition & Addenda n)Code Case no. 1. Component: a) Lift Check Valve b) 24" NPS c) 900 lb. d) 1 e) Body: SA216 Gr. WCB f) Q1B21F010A and B

- g) For Machining of Inbody Guide Ribs & Seat, Applying 309L Cladding and then Norem B-1: Anchor/Darling Dwg.# 801D13686 Rev.A; For Widening Lower Inbody Guide Ribs: Dwg. # M-KA242.0-Q1-1.3-30 Rev.A; For Machining Weld Preps on the Seat Ring & Inbody Seat Ring Pocket Area: Anchor/Darling Dwg.# 013C33081 (No Rev.) h) CTMT. Bldg. Area 11, Drywell, El. 143' i) William Powell Co. j) Cincinnati, OH k) Q1B21F010A: S/N 68885-2; Q1B21F010B: S/N 68885-1 I) N/A m) ASME Section III, 71'Ed. to W72 Add. n) 1388-2
- 2. Replaced: a) Discs (w/Disc Guides) b-n) Same as Item 1 above except for e) disc: SA-516 Gr.70 g) For Modification: Anchor/Darling Dwg.# 804F05914 Rev. A k) Q1B21F010A - Removed: CM# 1456B, Installed: CM# 2561B; Q1B21F010B - Removed: CM# 1455B, Installed: CM# 1453B

We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division I, 1977 Edition with Summer, 1979, Adderda

Alm igned: 8-29 95

Owner Representative

8/30/51

Title: Testing/Inspection Programs Supv.

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

MS 6000 Commissions National Board, State, Province and Nos.

alak. Suns Date 9-1-95



NIS-2 NO. 00362

OWNER: ENTERGY OPERATIONS, INC.

ECHELON ONE P.O. BOX 31995

JACKSON, MS 39286-1995

PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756

PORT GIBSON, MS 39150

UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE:

JULY 1, 1985

ABSTRACT OF MODIFICATIONS: (Continued from Page 1)

The Following Tests and Examinations were performed:

On Q1B21F010A

- VE-1 Visual & Magnetic Particle Examinations on Guide Ribs after removing stellite by machining: 4/28/95
- VE-1 Visual & Magnetic Particle Examinations on excavated MT indication areas on Lower Guide Rib: 4/30/95
- VE-1 Visual & Magnetic Particle Examinations on the Valve Seat after stellite removal by machining: 4/30/95
- VE-1 Visual & Magnetic Particle Examinations on the Valve Seat after remachining to meet dwg's. dimensions: 5/5/95
- VE-1 Visual & Magnetic Particle Examinations on base metal build-up of Lower Guide Rib: 5/5/95
- VE-1 Visual & Magnetic Particle Examinations on Seat Ring Pocket area after weld prep by machining: 5/23/95
- VE-1 Visual & Liquid Penetrant Examinations on Seat Ring after weld prep by machining: 5/23/95
- VE-1 Visual & Magnetic Particle Examinations on Seal Weld of Seat Ring in Seat Ring Pocket area: 5/23/95
- VE-1 Visual & Magnetic Particle Examinations on Seal Weld of Seat Ring after blending weld smooth into body: 5/24/95
- VE-1 Visual & Liquid Penetrant Examinations on Valve Seat & Guide Ribs after machining of 309L Cladding: 5/23,24/95
- VE-1 Visual & Liquid Penetrant Examinations on removed Thermocouple tack weld areas inside of valve: 5/24/95

Preservice VT-3 Visual Examination on Valve's internals after modifications: 5/26/95

Liquid Penetrant Examination on seating surfaces of new disc & Valve Body after Blue Check: 5/26/95

Local Leak Rate Test: 5/26/95

Preservice VT-3 Visual Examination on Q1B21G154R01 after disassembly/reassembly to allow access to valve: 5/27/95 VE-1 Visual & Magnetic Particle Examinations on removed Thermoccuple tack weld areas outside of valve: 5/27/95 Valve Operability Test: 6/23/95 (Performed under Modification Work Permit No. 19940003, Cl# 50092)

System Leakage Test & VT-2 Exam.: 6/11/95 (Performed under Modification Work Permit No. 19940003, Ci# 50092)

On Q1B21F010B

- VT-3 Visual Examinations on Q1B21G156R01 & Q1B21G157R01 prior to disassembly to allow access to valve: 4/16/95
- VE-1 Visual & Magnetic Particle Examinations on Valve Seat after stellite removal & weld prep by machining: 4/20/95
- VE-1 Visual & Liquid Penetrant Examinations on 3 Guide Ribs after stellite removal by machining: 4/20,21/95
- VE-1 Visual & Magnetic Particle Examinations on both sides of Lower Guide Rib after stellite removal: 4/20.21/95
- VE-1 Visual & Magnetic Particle Examinations on Lower Guide after base metal build-up with E7018 weld: 4/21/95
- VE-1 Visual & Magnetic Particle Examinations on Right & Left Guide Ribs after stellite removal by machining: 4/24/95 Liquid Penetrant Examination on finished machined surface of the upper guide: 4/29/95
- VE-1 Visual & Liquid Penetrant Examinations on Right Guide Rib after machining 309L Cladding: 4/29/95
- VE-1 Visual & Liquid Penetrant Examinations on Lower Guide Rib after machining 309L Cladding: 4/29/95
- VE-1 Visual & Liquid Penetrant Examinations on Left Guide Rib after machining 309L Cladding: 4/29/95
- VE-1 Visual & Liquid Penetrant Examinations on Valve Seat (no machining): 4/29/95
- VE-1 Visual & Liquid Penetrant Examinations on Lower & Right Guides after removing cracks in Norem & 309L: 5/6/95

(Continued on Page 3)



(G)

NIS-2 NO. 00362

OWNER: ENTERGY OPERATIONS, INC. ECHELON ONE

P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, MS 39150 UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

ABSTRACT OF MODIFICATIONS: (Continued from Page 2) On Q1B21F010B (Cont.) VE-1 Visual & Liquid Penetrant Examinations on Right Guide Rib after Norem B-1 & 309L removal by machining: 5/6/95 VE-1 Visual & Liquid Penetrant Examinations on Lower Guide Rib after welding 309L Cladding: 5/9/95 VE-1 Visual & Liquid Penetrant Examinations on Right Guide Rib after welding 309L Cladding: 5/9/95 VE-1 Visual & Magnetic Particle Examinations on removed Thermocouple tack weld areas inside of valve: 5/11/95 VE-1 Visual & Liquid Penetrant Examinations on removed Thermocouple tack weld areas outside of valve: 5/11,19/95 VE-1 Visual & Liquid Penetrant Examinations on Valve Seat after final machining on Norem B-1: 5/17/95 VE-1 Visual & Liquid Penetrant Examinations on Lower Guide Rib after final machining on Norem B-1: 5/17/95 VE-1 Visual & Liquid Penetrant Examinations on Right Guide Rib after final machining on Norem B-1: 5/17/95 VE-1 Visual & Liquid Penetrant Examinations on Left Guide Rib after final machining on Norem B-1: 5/17/95 VE-1 Visual & Liquid Penetrant Examinations on Upper Guide Rib after final machining on Norem B-1: 5/17/95 VE-1 Visual & Liquid Penetrant Examinations on Lower Guide Rib after removal of PT indications by grinding: 5/17/95 VE-1 Visual & Liquid Penetrant Examinations on Left Guide Rib after removal of PT indications by grinding: 5/17/95 Preservice VT-3 Visual Examination on Valve's internals after modifications: 5/18/95 Local Leak Rate Test: 5/18/95 VE-2 Visual Examinations on support welds for reassembly of support Q1B21G156R01: 5/19/95 Preservice VT-3 Visual Examination on support Q1B21G156R01 after reassembly: 5/19/95 Valve Operability Test: 6/23/95 (Performed under Modification Work Permit No. 19940003, CI# 50092) System Leakage Test & VT-2 Examination: 5/23/95 (Performed during Reactor Vessel Inservice Leak Test) Work was performed under Modification Work Permit No. 19940003, CI# 44432 (For Q1B21F010A) & CI# 44435 (For Q1B21F010B): Completed 6/6/95 Disassembly/reassembly of Supports Q1B21G154R01, Q1B21G156R01 & Q1B21G157R01 to allow access for valve work was performed under Work Order# 142719; Completed 5/27/95



GD.

NIS-2 NO. 00363

OWNER: EMTERGY OPERATIONS, INC. # IFLON ONE P.O. BOX 31995 JACKSON, MS 39286-1995 PLANT: GRAND GULF NUCLEAR STATION P.O. BOX 756 PORT GIBSON, ML 39150 UNIT:

GRAND GULF ONE COMMERCIAL OPERATION DATE: JULY 1, 1985

ABSTRACT OF REPAIRS/REPLACEMENTS/MODIFICATIONS: (Include types and completion dates of tests, examinations, work completed, and corrective measures taken or recommended.) Replacement: During disassembly, inspection and rebuild of 22 spare Control Rod Drive (CRD) Assemblies removed in
Refueling Outage No. 5 (RFO5), CRD's S/N 7717 & A2048 were found to be missing a piston tube nut. Material
Nonconformance Report No. 0027-95 was initiated to document the missing nuts and provide corrective action. The
missing tube nuts were apparently removed during disassembly in RFO5 and were not reinstalled when the CRDs were
reassembled and placed in dry lay-up storage. The CRDs were reassembled with new piston tube nuts and returned to
storage. The following examinations were performed:
Preservice VT-1 Visual Examinations on replacement Piston Tube Nuts: 2/15,16/95
Work was performed under Maintenance Work Order No. 134058: Completed 5/14/95
COMPONENT INFORMATION: (Include all applicable information and indicate whether repaired, replaced or etc.) a)name b)size c)capacity d)class e)material f)MPL No. g)drawings h)location i)manufacturer's name j)manufacturer's address k)manufacturer's 1.D. no. l)National Board No. m)Construction Code Edition & Addenda n)Code Case no. 1. Component: a) Control Rod Drive Assembly b) Flange: 3.37"T x 9%" OD c) N/A d) 1 e) Flange: SA182 F304 f) Q1B13D008 g) G.E. Dwg.# 768E534G001 h) Reactor Vessel Bottom i) General Electric Co. j) San Jose, CA k) Model# 7RDB144DG001, S/N 7716 & A2048 l) N/A m) ASME Section III, 1971 Edition, Summer 1973 Addenda no. 1361-2
2. Replacements: a) Piston Tube Nuts (2 ea.) b) 1.30" T x 2.62" Dia. c) N/A d) 1 e) XM-19 SA479 f - n) Same as
Item 1 except for k) P/N 137C5934P001; S/N 1209 (on CRD S/N A2048) & S/N 1229 (on CRD S/N 7716)
We certify that the statements made in this report are correct and conform to the rules of ASME Section XI, Division I, 1977 Edition with Summer 1979, Adderdie. Signed: Date 9/5/95 Title: Engineering Support Supt.
CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Providence of Mississippi and employed by Arkwright Mutual/Mutual Boiler Div. of Norwood, Massachusetts, have inspected or verified by supporting documentation the components described in this summary report and state that to the best of my knowledge and belief, the Owner or their agent has performed examinations and taken corrective measures described in this summary report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer make any warranty, expressed or implied, concerning the examinations and corrective measures described in the summary report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

FACTORY MUTUAL ENGINEERING

Date 9-5-75

Commissions 25 600 National Board, State, Province and Nos.