

Wisconsin Electric Power Co
231 West Michigan Avenue
Milwaukee, WI 53201
Point Beach Nuclear Plant, Unit 2
6610 Nuclear Road
Two Rivers, WI 54241
Docket 50-301
Commercial Service Date 10/01/72

UNIT 2 REFUELING 20

INSERVICE INSPECTION SUMMARY REPORT

FOR

FORM NIS-1

Written by: James B Brander Date: 2/6/95
Reviewed by: Jim + Brother Date: 2-15-95
Approved by: Tom Staskal Date: 2-17-95

Acronyms

ASME	American Society of Mechanical Engineers
EBASCO	EBASCO Services Incorporated
EWR	Engineering Work Request
IDR	Indication Disposition Report
IN	Information Notice
ISI	Inservice Inspection
LTP	Long Term Plan
MT	Magnetic Particle Examination
MWR	Maintenance Work Request
NDE	Nondestructive Examination
NES	Nuclear Engineering Section
NRC	Nuclear Regulatory Commission
PBNP	Point Beach Nuclear Plant
P-G	Phillips Getschow
PT	Dye Penetrant Examination
PWA	Professional Welding Associates
QTS	Quality Technical Services
RT	Radiographic Examination
RRM	Repair/Replacement/Modification

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UT Ultrasonic Examination
VT Visual Examination
WE Wisconsin Electric Power Company

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UNIT 2 REFUELING 20

INSERVICE INSPECTION SUMMARY

1.0 INTRODUCTION

From November 16, 1993 to December 1, 1994, non-destructive examinations of selected components at PBNP Unit 2 were performed. These examinations constitute the second examination of the first period, of the third 10-year interval at PBNP Unit 2. The time interval for this examination period included the Unit 2 Refueling 20 outage (U2R20) that ran from September 24, 1994 to November 1, 1994.

2.0 CODE CASES AND INTERPRETATIONS

This report and examinations were completed applying the following:

- 2.1 ASME Code Interpretation, Section VIII-1-83-17, which allows for computer generated data report forms to be used as long as size, arrangement, and content are identical.
- 2.2 Code Case N-460
- 2.3 Code Case N-448

3.0 ABSTRACT OF EXAMINATIONS

3.1 Determination of Scope

Components and system areas were selected for examination in accordance with the following:

- 3.1.1 PBNP FSAR, Technical Specification Section 15.4.2.B
- 3.1.2 Long Term Inservice Examination Plan for Class 1, Class 2, and Class 3 systems at Point Beach Nuclear Plant, Third Interval, Unit 2.
- 3.1.3 NRC IE Bulletin 82-02
- 3.1.4 Requests of PBNP Personnel

3.2 Scope of Component Weld Examinations

Representative samples of the following components and system areas were examined with NDE techniques by WE (QTS), EBASCO, Phillips Getschow (P-G) and Professional Welding Associates (PWA) personnel.

Reactor Pressure Vessel

Pressurizer

B Steam Generator

Class 1 Pressure Retaining Valve Bolting

Class 1 Piping and Supports

Class 2 Piping and Supports

Class 3 Pipe Supports

3.3 Completed Component/Weld Examinations

<u>CODE or HEADING</u>	<u>DESCRIPTION</u>
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Exam Type	Defines the requirement or reason for the examination performed.
86E-03	Examination performed as required by ASME Section XI, 1986 Edition, No Addenda
B01-03	Augmented examinations performed on Heavy Load Lifting Devices, per ANSI N14.6
B03-03	Augmented examinations performed on the Main Steam Bypass Line Energy Absorbers, per NRC letter dated April 10, 1987
B04-03	Augmented examinations performed on Threaded Fasteners, per IEB 82-02
B05-03	Augmented examinations performed on Steam Generator Feedwater Nozzles, per Condition Report CR 92-004
D01-03	Augmented examinations performed on Reactor Vessel Head Cladding, per NRC IN 90-29

P12-03	Preservice examination, per RRM 94-0047
P13-03	Preservice examination, per RRM 94-0048
P14-03	Preservice examination, per RRM 94-0060
P15-03	Preservice examination, per RRM 94-0071
P16-03	Preservice examination, per RRM 94-0072
P17-03	Preservice examination, per RRM 94-0077
P18-03	Preservice examination, per RRM 94-0027
P19-03	Preservice examination, per RRM 94-0043
P20-03	Preservice examination, per RRM 94-0045
R02-03	Preservice examination, per IDR 93U2-7P012
R03-03	Preservice examination, per IDR 94U2-7P007
R04-03	Preservice examination, per IDR 94U2-7P010
R05-03	Preservice examination, per IDR 94U2-7P011
R06-03	Preservice examination, per IDR 94U2-7P012
R07-03	Preservice examination, per IDR 94U2-7P020
S02-03	Successive examination, per IWF-2420(b), reference IDR 93U2-7P002
X08-03	Supplemental examination, per Data Sheet 94U2-160P10
X09-03	Supplemental examination, per Condition Report CR 94-472
X10-03	Supplemental examination, per Condition Report CR 94-473
X11-03	Supplemental examination, per Data Sheet 94U2-350P011

Ind Type A description of indications (i.e., N = no indications, R = recordable indications, I = insignificant or non-relevant indications, G = geometry).

Results Indicates the outcome of a particular exam.
 P = Pass
 F = Fail
 C = Conditionally Accepted
 N = No examination performed

Program Indicates whether or not ASME Section XI credit has been taken for the
 Credit exam. Augmented or other examinations not performed for an ASME
 Section XI requirement will be indicated by an N.

Following are database printouts that summarize the ISI examinations that were performed during the Unit 2 Refueling 20 outage.

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Examinations
(See Pages 8-1 through 8-38)

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COMPONENT IDENTIFICATION			METHOD	EXAM	EXAM	EXAM DATA	RESULTS	PROGRAM	IND	
COMPONENT DESCRIPTION				TYPE	DATE	SHEET		CREDIT	TYP	
ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
01-PSS				VT-3	86E-03	10/15/94	94U2-754P060	P	Y	N
RIGID SUPPORT										
N/A	ISI-PRI-2158	2.00	0.000							
08-PHA				VT-3	86E-03	10/15/94	94U2-754P059	P	Y	N
RIGID SUPPORT										
N/A	ISI-PRI-2141	2.00	0.000							
10-PHF				VT-3	86E-03	09/29/94	94U2-754P020	P	Y	N
RIGID SUPPORT										
N/A	ISI-PRI-2156	2.00	0.000							
11-PHE				VT-3	86E-03	10/15/94	94U2-754P063	P	Y	N
RIGID SUPPORT										
N/A	ISI-PRI-2156	2.00	0.000							
12-PHC				VT-3	86E-03	09/27/94	94U2-754P013	P	Y	N
RIGID SUPPORT										
N/A	ISI-PRI-2155	2.00	0.000							
12-PHD				VT-3	86E-03	09/27/94	94U2-754P012	P	Y	N
RIGID SUPPORT										
N/A	ISI-PRI-2155	2.00	0.000							

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COMPONENT DESCRIPTION					TYPE	DATE	SHEET		CREDIT	TYP
ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
12PSSB-2				VT-3	86E-03	09/30/94	94U2-754P027	P	Y	N
RIGID SUPPORT										
N/A	ISI-PRI-2138	2.00	0.000							
13-PHA				VT-3	86E-03	09/28/94	94U2-754P019	P	Y	N
RIGID SUPPORT										
N/A	ISI-PRI-2149	2.00	0.000							
14-PHA				VT-3	86E-03	09/30/94	94U2-754P023	P	Y	N
RIGID SUPPORT										
N/A	ISI-PRI-2150	2.00	0.000							
16-PH				VT-3	86E-03	09/30/94	94U2-754P025	P	Y	N
SPRING HANGER										
N/A	ISI-PRI-2140	3.00	0.000							
17-2H-02				VT-3	86E-03	10/08/94	94U2-754P046	P	Y	N
SPRING HANGER										
N/A	ISI-PRI-2228	8.00	0.000							
20-2H-02				VT-3	86E-03	10/04/94	94U2-754P040	P	Y	N
SPRING HANGER										
N/A	ISI-PRI-2231	6.00	0.000							
U2R20/OUT2/TOP OF LOAD SCALE LABEL TORN OFF.										

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COMPONENT DESCRIPTION					TYPE	DATE	SHEET		CREDIT	TYP
ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
=====										
24-PH				VT-3	86E-03	09/30/94	94U2-754P029	F	Y	R
SPRING HANGER				VT-1	X09-03	10/21/94	94U2-750P005	P	N	N
N/A	ISI-PRI-2146	2.00	0.000							
U2R20/OUT2/SPRING CAN LUGS ARE NOT PARALLEL.										

25-PH				VT-3	86E-03	09/30/94	94U2-754P021	P	Y	N
RIGID SUPPORT										
N/A	ISI-PRI-2153	2.00	0.000							

25-PRB				VT-3	86E-03	10/10/94	94U2-754P049	P	Y	N
RIGID SUPPORT										
N/A	ISI-PRI-2142	2.00	0.000							

29-PRA				VT-3	86E-03	10/15/94	94U2-754P067	P	Y	N
RIGID SUPPORT										
N/A	ISI-PRI-2151	2.00	0.000							

29-PRD				VT-3	86E-03	10/15/94	94U2-754P062	C	Y	R
RIGID SUPPORT										
N/A	ISI-PRI-2151	2.00	0.000							
U2R20/OUT2/WALL PLATE HAS 3 GAPS AT BOTTOM OF PLATE.										

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COMPONENT DESCRIPTION					TYPE	DATE	SHEET		CREDIT	TYP
ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
=====										
29-PRE				VT-3	86E-03	10/15/94	94U2-754P064	C	Y	R
SPRING HANGER										
N/A	ISI-PRI-2152	2.00	0.000							
U2R20/OUT2/2# BOLT LACKING THREAD ENGAGEMENT - SECOND BOLT FROM BOTTOM ON LEFT SIDE MISSING NUT - LOWER THREADED ROD AT ANGLE AND HOLE SHOWS WEAR.										

2H-02B				VT-3	86E-03	10/08/94	94U2-754P047	C	Y	R
SPRING HANGER										
N/A	ISI-PRI-2253	10.00	0.000	VT-3	R03-03	10/30/94	94U2-754P077	P	N	N
U2R20/OUT2/ACTUAL LOAD IS HIGHER THAN REQUIRED RANGE.										

2H-04A				VT-3	86E-03	10/08/94	94U2-754P045	C	Y	R
SPRING HANGER										
N/A	ISI-PRI-2252	10.00	0.000							
U2R20/OUT2/GAPS BETWEEN 2 BOLT HEADS AND PLATE - BOLT HEADS ARE BENT.										

2H-06				VT-3	86E-03	10/04/94	94U2-754P037	P	Y	N
SPRING HANGER										
N/A	ISI-PRI-2223	8.00	0.000	VT-3	P20-03	10/04/94	94U2-754P037	P	N	N

2H-08				VT-3	86E-03	10/04/94	94U2-754P036	P	Y	N
SPRING HANGER										
N/A	ISI-PRI-2224	8.00	0.000							

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COMPONENT DESCRIPTION										
ITEM	ISOMETRIC RELIEF MATERIAL A & B									
=====										
H-115 RIGID SUPPORT N/A	ISI-PRI-2333	8.00	0.000	VT-3	86E-03	09/26/94	94U2-754P005	P	Y	N
H-12 SPRING HANGER N/A	ISI-PRI-2230	8.00	0.000	VT-3	86E-03	10/04/94	94U2-754P035	P	Y	N
H-13B SPRING HANGER N/A	ISI-PRI-2251	16.00	0.000	VT-3	R02-03	06/10/94	94U2-750P001	P	N	N
				VT-3	P18-03	11/30/94	94U2-754P075	P	N	R
				VT-3	86E-03	11/30/94	94U2-754P075	P	Y	R
RE-EXAMINATION AFTER U-BOLT TIGHTENED AND SPRING CAN ADJUSTMENT PER IDR 93U2-7P012. U2R20/OUT2 HANGER LUG IS BENT - ASSEMBLY TILTED - CHANNEL IRON IS BENT.										
H-28 SPRING HANGER N/A	ISI-PRI-2232	6.00	0.000	VT-3	86E-03	10/04/94	94U2-754P034	P	Y	N
H-33 SPRING HANGER N/A	ISI-PRI-2220	10.00	0.000	VT-3	86E-03	10/04/94	94U2-754P038	F	Y	R
				VT-3	R05-03	12/01/94	94U2-754P079	P	N	N
U2R20/OUT2/ACTUAL LOAD HIGHER THAN REQUIRED RANGE.										

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COMPONENT DESCRIPTION					TYPE	DATE	SHEET		CREDIT	TYP
ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
=====										
3H-01B				VT-3	86E-03	09/26/94	94U2-754P006	P	Y	N
SPRING HANGER										
N/A	ISI-PRI-2270	6.00	0.000							
A-05				VT-3	86E-03	09/30/94	94U2-754P026	P	Y	N
ANCHOR										
N/A	ISI-PRI-2122	0.00	0.000							
A-11/M82				VT-3	86E-03	10/04/94	94U2-754P033	P	Y	N
ANCHOR										
N/A	ISI-PRI-2242	6.00	0.000							
AC-06-SI-2001-15				PT	86E-03	09/29/94	94U2-451P008	P	Y	N
ELBOW TO PIPE				UT	86E-03	09/30/94	94U2-161P002	C	Y	G
B9.11	ISI-PRI-2129	6.00	0.562							
	SS									
U2R20/OUT2/GEOMETRY IN ROOT AREA.										
AC-08-RHR-2003-13				PT	86E-03	10/07/94	94U2-451P014	P	Y	N
REDUCER TO ELBOW										
C5.11B	ISI-PRI-2228	8.00	0.322							
	SS									

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DIA. THICKNESS										
=====										
AC-08-RHR-2003-15 ELBOW TO PIPE C5.11B ISI-PRI-2228 SS				PT	86E-03	10/07/94	94U2-451P013	P	Y	N
8.00 0.322										
AC-08-RHR-2004-11 VALVE RH-715B TO ELBOW C5.11B ISI-PRI-2229 SS				PT	86E-03	10/07/94	94U2-451P012	P	Y	N
8.00 0.322										
AC-10-RHR-2006-03 PIPE TO ELBOW C5.11B ISI-PRI-2225 SS				PT	86E-03	09/28/94	94U2-451P006	P	Y	N
10.00 0.365										
AC-10-SI-2001-12 PIPE TO ELBOW B9.11 ISI-PRI-2124 SS				PT	86E-03	10/08/94	94U2-451P015	F	Y	R
10.00 1.000				UT	86E-03	10/10/94	94U2-161P010	P	Y	N
				PT	R04-03	10/14/94	94U2-451P028	P	N	N
U2R20/OUT2/UNDERCUT IN 3 AREAS AND 8 ROUNDED INDICATIONS.										
CVC-02-AS-2001-16B COUPLING TO PIPE B9.40 ISI-PRI-2143 SS				PT	86E-03	10/12/94	94U2-451P022	P	Y	N
2.00 0.344										

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ITEM	ISOMETRIC RELIEF	DIA.	THICKNESS							
=====										
CVC-02-LD-2001-40				PT	86E-03	10/14/94	94U2-451P027	P	Y	N
PIPE TO ELBOW										
39.40	ISI-PRI-2151 SS	2.00	0.344							
<hr/>										
CVC-02-LD-2001-42				PT	86E-03	10/14/94	94U2-451P025	P	Y	N
PIPE TO ELBOW										
39.40	ISI-PRI-2151 SS	2.00	0.344							
<hr/>										
CVC-02-LD-2001-44				PT	86E-03	10/14/94	94U2-451P026	P	Y	N
PIPE TO NOZZLE										
39.40	ISI-PRI-2151 SS	2.00	0.344							
<hr/>										
CVC-02-LD-2002-03				PT	86E-03	10/12/94	94U2-451P020	P	Y	N
ELBOW TO PIPE										
39.40	ISI-PRI-2144 SS	2.00	0.344							
<hr/>										
CVC-02-LD-2002-07A				PT	86E-03	10/12/94	94U2-451P021	P	Y	N
TEE TO REDUCER										
39.40	ISI-PRI-2144 SS	2.00	0.344							
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DIA. THICKNESS										
VC-02-PSI-2002-21-FB FLANGE BOLTING 7.50 ISI-PRI-2148 S				VT-1	86E-03	10/15/94	94U2-750P004	P	Y	N
2.00 0.000										
VC-02-PSI-2002-23 PIPE TO VALVE CV-304B 9.40 ISI-PRI-2143 SS				PT	86E-03	10/15/94	94U2-451P030	P	Y	N
2.00 0.344										
VC-03-CH-2001-11 ELBOW TO PIPE 9.21 ISI-PRI-2140 SS				PT	86E-03	09/30/94	94U2-451P009	P	Y	N
3.00 0.438										
A-EB-2-4 ENERGY ABSORBER ENERGY ISI-PRI-2405				VT-3	B03-03	10/06/94	94U2-754P042	P	N	N
16.00 0.000										
W-16-FW-2001-01ARI PIPE TO VALVE CS-466AA 5.51 ISI-PRI-2249 CC				UT PT	P18-03 P18-03	10/22/94 10/15/94	94U2-161P017 94U2-451P038	P P	N N	G N
2.00 0.843										
2R20/OUT2/INTERMITTENT GEOMETRY AND ID INDICATION OUTSIDE AREA OF INTEREST INTERMITTENT 360 DEG.										

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DIA. THICKNESS										
FW-16-FW-2001-01R1				PT	P18-03	10/15/94	94U2-451P039	P	N	N
VALVE CS-466AA TO PIPE				UT	P18-03	10/16/94	94U2-161P016	P	N	N
CS.51	ISI-PRI-2249	16.00	0.843							
CC										
U2R20/OUT2/COUNTERBORE										
FW-16-FW-2001-22				MT	86E-03	10/06/94	94U2-350P004	P	Y	N
ELBOW TO PIPE				UT	86E-03	10/06/94	94U2-161P009	C	Y	G
CS.51	ISI-PRI-2250	16.00	0.843							
CC										
U2R20/OUT2/ROOT AND OD GEOMETRY.										
FW-16-FW-2002-01AR1				PT	P18-03	10/18/94	94U2-451P040	P	N	N
PIPE TO VALVE CS-476AA				UT	P18-03	10/24/94	94U2-161P020	C	N	G
CS.51	ISI-PRI-2251	16.00	0.843	PT	P18-03	10/19/94	94U2-451P042	P	N	N
CC										
U2R20/OUT2/LAMINATIONS - POROSITY - INCLUSIONS.										
FW-16-FW-2002-01R1				UT	P18-03	10/24/94	94U2-161P019	P	N	G
VALVE CS-476AA TO PIPE				PT	P18-03	10/18/94	94U2-451P041	P	N	N
CS.51	ISI-PRI-2251	16.00	0.843							
CC										
U2R20/OUT2/INTRMITTENT ID GEOMETRY.										

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=====										
W-16-FW-2002-17				MT	86E-03	10/03/94	94U2-350P001	P	Y	N
VALVE CS-476BB TO ELBOW				UT	86E-03	10/03/94	94U2-161P006	P	Y	N
5.51	ISI-PRI-2251	16.00	0.843							
	CC									
W-16-FW-2002-19				MT	86E-03	10/03/94	94U2-350P002	P	Y	N
PIPE TO REDUCER				UT	86E-03	10/03/94	94U2-161P007	P	Y	N
5.51	ISI-PRI-2251	16.00	0.843							
	CC									
W-16-FW-2002-20				MT	86E-03	10/03/94	94U2-350P003	P	Y	N
REDUCER TO NOZZLE				UT	86E-03	10/03/94	94U2-161P008	P	Y	N
5.51	ISI-PRI-2251	18.00	0.843	UT	B05-03	10/03/94	94U2-161P018	P	N	N
	CC									
EXAMINATION TO INCLUDE COUNTERBORE TRANSITION REGION.										
W-09				VT-3	86E-03	09/26/94	94U2-754P010	P	Y	N
SPRING HANGER										
1/A	ISI-PRI-2267	6.00								
W-12				VT-3	86E-03	09/26/94	94U2-754P001	C	Y	R
RIGID SUPPORT										
1/A	ISI-PRI-2262	4.00	0.000							
2R20/OUT2/LOOSE NUT ON CLEVIS AND TURNBUCKLE SECURED WITH WIRE INSTEAD OF COTTER PIN.										

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DIA. THICKNESS										
=====										
1-204B				VT-3	86E-03	09/26/94	94U2-754P008	F	Y	R
RIGID SUPPORT				VT-3	R06-03	10/27/94	94U2-754P070	P	N	N
W/A	ISI-PRI-2259	4.00	0.000							
2R20/OUT2/PIPE CLEVIS LOOSE - NOT SUPPORTING PIPE.										

1-206B				VT-3	86E-03	09/26/94	94U2-754P009	C	Y	R
RIGID SUPPORT										
W/A	ISI-PRI-2259	4.00	0.000							
2R20/OUT2/BENT THREADED ROD - FAST SIDE. WEST TOP CLEVIS PIN SECURED WITH WIRE INSTEAD OF COTTER PIN.										

1-210A				VT-3	86E-03	09/26/94	94U2-754P015	F	Y	R
RIGID SUPPORT				VT-1	P14-03	10/30/94	94U2-754P078	P	N	N
W/A	ISI-PRI-2261	4.00	0.000							
2R20/OUT2/LOOSE NUT ON U-BOLT.										

1-210B				VT-3	86E-03	09/26/94	94U2-754P002	C	Y	R
GUIDE										
W/A	ISI-PRI-2261	4.00	0.000							
2R20/OUT2/U-BOLT MISSING.										

1-43				VT-3	86E-03	10/17/94	94U2-754P066	P	Y	N
RIGID SUPPORT										
W/A	ISI-PRI-2325	6.00	0.000							

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ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
=====										
IB-19				VT-3	86E-03	10/12/94	94U2-754P057	P	Y	N
RIGID SUPPORT				VT-3	P13-03	10/12/94	94U2-754P057	P	N	N
W/A	ISI-PRI-2329	8.00	0.000							

IS-22				VT-3	86E-03	09/30/94	94U2-754P024	F	Y	R
NUBBER				VT-3	P15-03	10/28/94	94U2-754P071	P	N	N
W/A	ISI-PRI-2135	3.00	0.000							
02R20/OUT2/BOLT ON PIPE CLAMP TO SHORT - NUT HAS INSUFFICIENT THREAD ENGAGEMENT.										

IS-36				VT-3	86E-03	10/18/94	94U2-754P069	P	Y	N
NUBBER										
W/A	ISI-PRI-2201	0.00	0.000							

IS-39				VT-3	86E-03	10/18/94	94U2-754P068	P	Y	N
NUBBER										
W/A	ISI-PRI-2201	0.00	0.000							

IS-06-MSR-2002-04				MT	P19-03	10/25/94	94U2-350P019	P	N	N
PIPE TO VALVE CV-2015										
5.51A	ISI-PRI-2248	6.00	0.280							
	CC									

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ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
=====										
MS-30-MS-2001-11-BC				MT	86E-03	10/04/94	94U2-350P008	P	Y	N
4-IN BRANCH CONN										
5.81	ISI-PRI-2244	30.00	1.125							
	CC									
OUT20/OUT2/THREE GOUGES NOTED ON THE 6" CAP.										
MS-31-MS-2001-01				MT	86E-03	10/13/94	94U2-350P012	P	Y	N
NOZZLE TO ELBOW				UT	86E-03	10/14/94	94U2-161P015	C	Y	G
5.51	ISI-PRI-2243	31.00	1.500							
	CC									
OUT20/OUT2/INTERMITTENT OD GEOMETRY.										
MS-31-MS-2001-01LD1				MT	86E-03	10/13/94	94U2-350P012	P	Y	N
INSIDE DOWNSTREAM LONG WELD				UT	86E-03	10/14/94	94U2-161P015	P	Y	N
5.52	ISI-PRI-2243	31.00	1.500							
RR-2-18	CC									
MS-31-MS-2001-01LDO				MT	86E-03	10/13/94	94U2-350P012	P	Y	N
OUTSIDE DOWNSTREAM LONG WELD				UT	86E-03	10/14/94	94U2-161P015	P	Y	N
5.52	ISI-PRI-2243	31.00	1.500							
RR-2-18	CC									
MS-31-MS-2002-01				MT	86E-03	10/12/94	94U2-350P011	F	Y	R
NOZZLE TO ELBOW				UT	86E-03	10/13/94	94U2-161P013	P	Y	N
5.51	ISI-PRI-2245	31.00	1.500	MT	P16-03	10/22/94	94U2-350P013	P	N	N
	CC			UT	X11-03	10/22/94	94U2-104P001	P	N	N
OUT20/OUT2/TWELVE LINEAR INDICATIONS UPSTREAM OF WELD.										

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ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF MATERIAL A & B										
=====										
MS-31-MS-2002-01LDI				MT	86E-03	10/12/94	94U2-350P011	F	Y	R
INSIDE DOWNSTREAM LONG WELD				UT	86E-03	10/13/94	94U2-161P013	P	Y	N
5.52	ISI-PRI-2245	31.00	1.500							
R-2-18	CC									
1/2R20/OUT2/TWELVE LINEAR INDICATIONS UPSTREAM OF CIRC. WELD.										

MS-31-MS-2002-01LDO				MT	86E-03	10/12/94	94U2-350P011	F	Y	R
OUTSIDE DOWNSTREAM LONG WELD				UT	86E-03	10/13/94	94U2-161P013	P	Y	N
5.52	ISI-PRI-2245	31.00	1.500							
R-2-18	CC									
1/2R20/OUT2/TWELVE LINEAR INDICATIONS UPSTREAM OF CIRC. WELD.										

ZR-SURGENOZ-SE				PT	86E-03	10/18/94	94U2-451P034	P	Y	N
SAFE-END TO NOZZLE				UT	86E-03	10/20/94	94U2-89-1P001	C	Y	G
5.40	ISI-PRI-2105	14.00	1.114							
	CS									
1/2R20/OUT2/ID GEGMETRY.										

2-181				VT-3	86E-03	10/12/94	94U2-754P054	P	Y	N
RIGID SUPPORT				VT-3	P12-03	10/12/94	94U2-754P054	P	N	N
4/A	ISI-PRI-2332	8.00	0.000							

2-185				VT-3	86E-03	10/12/94	94U2-754P055	C	Y	R
RIGID SUPPORT				VT-3	P13-03	10/12/94	94U2-754P055	C	N	R
4/A	ISI-PRI-2332	8.00	0.000							
1/2R20/OUT2/SHIM IS 3/8" OFF CENTER.										

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ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
=====										
2-198				VT-3	P17-03	10/28/94	94U2-754O072	P	N	N
RIGID SUPPORT										
W/A	ISI-PRI-2336	8.00	0.000							

2-199				VT-3	P17-03	10/28/94	94U2-754P073	P	N	N
RIGID SUPPORT										
W/A	ISI-PRI-2336	8.00	0.000							

2-200				VT-3	P17-03	10/28/94	94U2-754P074	P	N	N
RIGID SUPPORT										
W/A	ISI-PRI-2336	8.00	0.000							

2-205				VT-3	86E-03	10/12/94	94U2-754P056	P	Y	N
RIGID SUPPORT				VT-3	P13-03	10/12/94	94U2-754P056	P	N	N
W/A	ISI-PRI-2334	8.00	0.000							

2-209				VT-3	P17-03	10/26/94	94U2-754P076	P	N	N
RIGID SUPPORT										
W/A	ISI-PRI-2334	8.00	0.000							

2-2315				VT-3	86E-03	10/03/94	94U2-754P030	C	Y	R
RIGID SUPPORT										
W/A	ISI-PRI-2269	6.00								
02R20/OUT2/CONCRETE CHIPPED.										

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RELIEF		MATERIAL A & B								
=====										
R-2334				VT-3	86E-03	10/04/94	94U2-754P039	P	Y	N
RIGID SUPPORT										
W/A	ISI-PRI-2241		6.00 0.000							
R-30				VT-3	86E-03	10/08/94	94U2-754P048	P	Y	N
RIGID SUPPORT										
W/A	ISI-PRI-2136		3.00 0.000							
R-41				VT-3	S02-03	10/15/94	94U2-754P061	C	Y	R
RIGID SUPPORT										
W/A	ISI-PRI-2225		10.00 0.000							
U2R20/OUT2/WALL ATTACHMENT HAS GAP OF 1/8" X 3 1/2" AT BOTTOM OF PLATE - CONCRETE HAS 5" X 3/4" x 1/2" CHIP.										
-42				VT-3	86E-03	10/15/94	94U2-754P058	P	Y	N
RIGID SUPPORT										
W/A	ISI-PRI-2225		10.00 0.000							
-72A				VT-3	86E-03	09/28/94	94U2-754P018	P	Y	N
RIGID SUPPORT										
W/A	ISI-PRI-2140		3.00 0.000							
C-02-BP-2003-19				PT	86E-03	10/15/94	94U2-451P029	P	Y	N
LBOW TO PIPE										
9.40	ISI-PRI-2139		2.00 0.344							
	SS									

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ITEM	ISOMETRIC MATERIAL A & B	DIA.	THICKNESS							
RC-02-ID-2001-17				PT	86E-03	10/18/94	94U2-451P033	P	Y	N
PIPE TO ELBOW										
89.40	ISI-PRI-2152 SS	2.00	0.344							
RC-03-BP-2002-06				PT	86E-03	10/08/94	94U2-451P016	P	Y	N
PIPE TO ELBOW										
89.21	ISI-PRI-2139 SS	3.00	0.438							
RC-03-BP-2002-10				PT	86E-03	10/14/94	94U2-450P019	P	Y	N
PIPE TO PIPE										
89.21	ISI-PRI-2139 SS	3.00	0.438							
RC-04				VT-3	86E-03	09/27/94	94U2-754P011	P	Y	N
RIGID SUPPORT										
N/A	ISI-PRI-2132	6.00								
RC-04-DR-2004-02-FB				VT-1	86E-03	09/30/94	94U2-750P002	C	Y	R
FLANGE BOLTING										
87.50	ISI-PRI-2120 S	0.00	0.000							
U2R20/OUT2/BORIC ACID DRY/WHITE/LIGHT BETWEEN FLANGE. GENERAL CORROSION ON STUDS. 2 NUTS ON PIPE SIDE - ONE THREAD EXPOSED INSIDE NUT.										

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ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
=====										
RC-10-AC-2001-01				PT	86E-03	09/30/94	94U2-451P010	P	Y	N
BRANCH CONN TO ELBOW				UT	86E-03	10/C1/94	94U2-161P004	P	Y	N
B9.11	ISI-PRI-2122	10.00	1.000							
	SS									

RC-15				VT-3	86E-03	10/10/94	94U2-754P050	C	Y	R
SPRING HANGER										
N/A	ISI-PRI-2137	3.00	0.000							
U2R20/OUT2/WELDLESS EYE NUT HAS ONE THREAD SHOWING IN NUT.										

RC-2H2				VT-3	86E-03	09/30/94	94U2-754P028	F	Y	R
SPRING HANGER				VT-1	X10-03	10/21/94	94U2-750P006	P	N	N
N/A	ISI-PRI-2138	3.00	0.000							
U2R20/OUT2/SPRING CAN LUGS NOT PARALLEL.										

RC-36-MRCL-BII-04				PT	86E-03	10/17/94	94U2-451P032	P	Y	N
ELBOW TO PIPE				UT	86E-03	10/18/94	94U2-167P001	P	Y	G
B9.11	ISI-PRI-2121	36.00	3.000							
	SS									
U2R20/OUT2/4.D. GEOMETRY SEEN INTERMITTENTLY 360 DEGREES.										

RCP-A-LEG-1				VT-3	86E-03	09/30/94	94U2-754P022	P	Y	N
COMPONENT SUPPORT										
N/A	ISI-PRI-2108	0.00	0.000							
	C									

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ITEM	MATERIAL A & B									
=====										
RCP-LR-01				MT	B01-03	10/25/94	94U2-350P016	P	N	N
LIFT RIG SPREADER ASSY WELD										
RCPMTR	ISI-PRI-2403	0.00	0.000							
	CC									
U2R20/OUT2/UNDERCUT VISUALLY NOTED.										
<hr/>										
RHE-01				UT	86E-03	10/12/94	94U2-166P001	N	N	N
HEAD TO SHELL										
B2.51	ISI-PRI-2107	0.00	0.000							
RR-2-12	SS									
U2R20/OUT2/U-BOLT SUPPORT COVERING WELD EXAMINATION NOT PERFORMED.										
<hr/>										
RHE-02				UT	86E-03	10/12/94	94U2-166P003	P	Y	N
SHELL TO TUBESHEET										
B2.60	ISI-PRI-2107	0.00	0.000							
RR-2-12	SS									
<hr/>										
RHE-04				UT	86E-03	10/12/94	94U2-166P002	P	Y	N
SHELL TO HEAD										
C1.20	ISI-PRI-2203	0.00	0.000							
	SS									
<hr/>										
RHE-N1				UT	86E-03	10/12/94	94U2-166P004	C	Y	G
INLET NOZZLE TO SHELL										
B3.150	ISI-PRI-2107	0.00	0.000							
RR-2-12	SS									
U2R20/OUT2/ROOT GEOMETRY.										

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RELIEF	MATERIAL A & B									
=====										
RHE-N4				UT	86E-03	10/12/94	94U2-166P005	C	Y	G
OUTLET SHELL TO NOZZLE										
B3.150	ISI-PRI-2107	0.00	0.000							
RR-2-12	SS									
U2R20/OUT2/ROOT GEOMETRY.										

RHE-SHELL SUPPORT-1				VT-3	86E-03	10/12/94	94U2-754P051	P	Y	N
COMPONENT SUPPORT										
N/A	ISI-PRI-2107/	0.00	0.000							
	C									

RHE-SHELL SUPPORT-2				VT-3	86E-03	10/12/94	94U2-754P052	P	Y	N
COMPONENT SUPPORT										
N/A	ISI-PRI-2107	0.00	0.000							
	C									

RHE-SHELL SUPPORT-3				VT-3	86E-03	10/12/94	94U2-754P053	P	Y	N
COMPONENT SUPPORT										
N/A	ISI-PRI-2107	0.00	0.000							
	C									

RHR-A-LEG-1				VT-3	86E-03	10/07/94	94U2-754P043	F	Y	R
COMPONENT SUPPORT										
N/A	ISI-PRI-2204	0.00	0.000							
	C									
U2R20/OUT2/GAP BETWEEN NUT AND PLATE.										

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DIA. THICKNESS										
RPV-HD-CLAD RPV HEAD INTERIOR CLADDING RPVHEAD ISI-PRI-2102 S				VT-3	D01-03	10/06/94	94U2-755P001	P	N	N
0.00 0.000										
RPV-HFLANGE-A HEAD TO FLANGE (AZ. 0-120) B1.40 ISI-PRI-2102 CC				MT UT	86E-03 86E-03	10/05/94 10/05/94	94U2-350P007 94U2-163P001	P P	Y Y	N N
157.25 5.750										
LIFT LUGS INTERFERE WITH EXAM.										
RPV-HLR-01 CLEVIS PLATE TO LEG WELD RPVHEAD ISI-PRI-2401 CC				MT	B01-03	10/05/94	94U2-350P005	P	N	N
0.00 0.000										
RPV-HLR-04 RING GIRD-SUPPORT LUG WELD RPVHEAD ISI-PRI-2401 CC				MT	B01-03	10/25/94	94U2-350P015	P	N	N
0.00 0.000										
RPV-HLR-07 SIDE LUG-SLING ASSY LINK WELD RPVHEAD ISI-PRI-2401 CC				MT MT	B01-03 R07-03	10/25/94 10/28/94	94U2-350P014 94U2-350P020	F P	N N	R N
0.00 0.000										
J2R20/OUT2/TWO LINEAR INDICATIONS ON UPPER EDGE OF LUG.										

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RPV-HLR-08			MT	B01-03	10/25/94	94U2-350P018	P	N	N
SIDE LUG-SLING ASSY LINK WELD									
RPVHEAD	ISI-PRI-2401 CC	0.00 0.000							
RPV-HLR-09			MT	B01-03	10/25/94	94U2-350P017	P	N	N
SIDE LUG-SLING ASSY LINK WELD									
RPVHEAD	ISI-PRI-2401 CC	0.00 0.000							
RPV-HLUG-01			MT	B01-03	10/05/94	94U2-350P006	P	N	N
RPV HEAD LIFTING LUG									
RPVHEAD	ISI-PRI-2103 CC	0.00 0.000							
RPV-INTERIOR			VT-3	86E-03	10/01/94	94U2-755P003	P	Y	N
VESSEL INTERIOR SURFACES									
B13.10	ISI-PRI-2101 SC	132.00 0.000							
RPV-NUT-01			MT	86E-03	10/12/94	94U2-350P009	P	Y	N
CLOSURE NUT									
B6.10	ISI-PRI-2103 C	8.50 7.875							

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DIA. THICKNESS										
=====										
RPV-NUT-02 CLOSURE NUT B6.10 ISI-PRI-2103 C				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
8.50 7.875										
RPV-NUT-03 CLOSURE NUT B6.10 ISI-PRI-2103 C				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
8.50 7.875										
RPV-NUT-04 CLOSURE NUT B6.10 ISI-PRI-2103 C				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
8.50 7.875										
RPV NUT-05 CLOSURE NUT B6.10 ISI-PRI-2103 C				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
8.50 7.875										
RPV-NUT-06 CLOSURE NUT B6.10 ISI-PRI-2103 C				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
8.50 7.875										

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COMPONENT DESCRIPTION					TYPE	DATE	SHEET		CREDIT	TYP
ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
=====										
RPV-NUT-07				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
CLOSURE NUT										
B6.10	ISI-PRI-2103	8.50	7.875							
	C									
RPV-NUT-08				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
CLOSURE NUT										
B6.10	ISI-PRI-2103	8.50	7.875							
	C									
RPV-NUT-09				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
CLOSURE NUT										
B6.10	ISI-PRI-2103	8.50	7.875							
	C									
RPV-NUT-10				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
CLOSURE NUT										
B6.10	ISI-PRI-2103	8.50	7.875							
	C									
RPV-NUT-11				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
CLOSURE NUT										
B6.10	ISI-PRI-2103	8.50	7.875							
	C									

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COMPONENT DESCRIPTION										
ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
=====										
RPV-NUT-12				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
CLOSURE NUT										
86.10	ISI-PRI-2103	8.50	7.875							
	C									
RPV-NUT-13				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
CLOSURE NUT										
86.10	ISI-PRI-2103	8.50	7.875							
	C									
RPV-NUT-14				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
CLOSURE NUT										
86.10	ISI-PRI-2103	8.50	7.875							
	C									
RPV-NUT-15				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
CLOSURE NUT										
86.10	ISI-PRI-2103	8.50	7.875							
	C									
RPV-NUT-16				MT	86E-03	10/12/94	94U2-350P009	P	Y	N
CLOSURE NUT										
86.10	ISI-PRI-2103	8.50	7.875							
	C									

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COMPONENT DESCRIPTION	ISOMETRIC	DIA.	THICKNESS							
ITEM	MATERIAL A & B									
RELIEF										
=====										
RPV-STUD-01				MT	86E-03	10/12/94	94U2-350P010	P	Y	N
CLOSURE STUD				UT	86E-03	10/04/94	94U2-160P001	P	Y	N
B6.30	ISI-PRI-2103	6.00	56.625							
	C									
=====										
RPV-STUD-02				MT	86E-03	10/12/94	94U2-350P010	P	Y	N
CLOSURE STUD				UT	86E-03	10/04/94	94U2-160P002	P	Y	N
B6.30	ISI-PRI-2103	6.00	56.625							
	C									
=====										
RPV-STUD-03				MT	86E-03	10/12/94	94U2-350P010	P	Y	N
CLOSURE STUD				UT	86E-03	10/04/94	94U2-160P003	P	Y	N
B6.30	ISI-PRI-2103	6.00	56.625							
	C									
=====										
RPV-STUD-04				MT	86E-03	10/12/94	94U2-350P010	P	Y	N
CLOSURE STUD				UT	86E-03	10/04/94	94U2-160P004	P	Y	N
B6.30	ISI-PRI-2103	6.00	56.625							
	C									
=====										
RPV-STUD-05				MT	86E-03	10/12/94	94U2-350P010	P	Y	N
CLOSURE STUD				UT	86E-03	10/05/94	94U2-161P005	P	Y	N
B6.30	ISI-PRI-2103	6.00	56.625							

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COMPONENT DESCRIPTION					TYPE	DATE	SHEET		CREDIT	TYP
ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
=====										
RPV-STUD-06				MT	86E-03	10/12/94	94U2-350P010	P	Y	N
CLOSURE STUD				UT	86E-03	10/05/94	94U2-160P006	P	Y	N
36.30	ISI-PRI-2103	6.00	56.625							
	C									
RPV-STUD-07				MT	86E-03	10/12/94	94U2-350P010	P	Y	N
CLOSURE STUD				UT	86E-03	10/04/94	94U2-160P007	P	Y	N
36.30	ISI-PRI-2103	6.00	56.625							
	C									
RPV-STUD-08				MT	86E-03	10/12/94	94U2-350P010	P	Y	N
CLOSURE STUD				UT	86E-03	10/05/94	94U2-160P008	P	Y	N
36.30	ISI-PRI-2103	6.00	56.625							
	C									
RPV-STUD-09				MT	86E-03	10/12/94	94U2-350P010	P	Y	N
CLOSURE STUD				UT	86E-03	10/05/94	94U2-160P009	P	Y	N
36.30	ISI-PRI-2103	6.00	56.625							
	C									
RPV-STUD-10				MT	86E-03	10/12/94	94U2-350P010	P	Y	N
CLOSURE STUD				UT	86E-03	10/05/94	94U2-160P010	C	Y	G
36.30	ISI-PRI-2103	6.00	56.625	VT-3	X08-03	10/06/94	94U2-755P002	C	N	G
	C									
U2R20/OUT2/GEOMETRIC REFLECTOR - LAP AT FIRST THREAD.										

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COMPONENT DESCRIPTION				TYPE	DATE	SHEET		CREDIT	TYP
ITEM	ISOMETRIC	DIA.	THICKNESS						
RELIEF	MATERIAL A & B								
=====									
RPV-STUD-11				MT	86E-03	10/12/94	94U2-350P010	P	Y
CLOSURE STUD				UT	86E-03	10/05/94	94U2-160P011	P	Y
B6.30	ISI-PRI-2103	6.00	56.625						N
	C								
RPV-STUD-12				MT	86E-03	10/12/94	94U2-350P010	P	Y
CLOSURE STUD				UT	86E-03	10/05/94	94U2-160P012	P	Y
B6.30	ISI-PRI-2103	6.00	56.625						N
	C								
RPV-STUD-13				MT	86E-03	10/12/94	94U2-350P010	P	Y
CLOSURE STUD				UT	86E-03	10/05/94	94U2-160P013	P	Y
B6.30	ISI-PRI-2103	6.00	56.625						N
	C								
RPV-STUD-14				MT	86E-03	10/12/94	94U2-350P010	P	Y
CLOSURE STUD				UT	86E-03	10/06/94	94U2-160P014	P	Y
B6.30	ISI-PRI-2103	6.00	56.625						N
	C								
RPV-STUD-15				MT	86E-03	10/12/94	94U2-350P010	P	Y
CLOSURE STUD				UT	86E-03	10/06/94	94U2-160P015	P	Y
B6.30	ISI-PRI-2103	6.00	56.625						N
	C								

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COMPONENT DESCRIPTION					TYPE	DATE	SHEET		CREDIT	TYP
ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
=====										
RPV-STUD-16				MT	86E-03	10/12/94	94U2-350P010	P	Y	N
CLOSURE STUD				UT	86E-03	10/06/94	94U2-160P016	P	Y	N
B6.30	ISI-PRI-2103	6.00	56.625							
	C									

RPV-WASH-01				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
CLOSURE WASHER										
B6.50	ISI-PRI-2103	9.00	3.000							
	C									

RPV-WASH-02				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
CLOSURE WASHER										
B6.50	ISI-PRI-2103	9.00	3.000							
	C									

RPV-WASH-03				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
CLOSURE WASHER										
B6.50	ISI-PRI-2103	9.00	3.000							
	C									

RPV-WASH-04				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
CLOSURE WASHER										
B6.50	ISI-PRI-2103	9.00	3.000							
	C									

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COMPONENT DESCRIPTION					TYPE	DATE	SHEET		CREDIT	TYP
ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
=====										
RPV-WASH-05				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
CLOSURE WASHER										
36.50	ISI-PRI-2103	9.00	3.000							
	C									

RPV-WASH-06				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
CLOSURE WASHER										
36.50	ISI-PRI-2103	9.00	3.000							
	C									

RPV-WASH-07				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
CLOSURE WASHER										
36.50	ISI-PRI-2103	9.00	3.000							
	C									

RPV-WASH-08				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
CLOSURE WASHER										
36.50	ISI-PRI-2103	9.00	3.000							
	C									

RPV-WASH-09				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
CLOSURE WASHER										
36.50	ISI-PRI-2103	9.00	3.000							
	C									

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DIA. THICKNESS										
=====										
RPV-WASH-10 CLOSURE WASHER B6.50 ISI-PRI-2103 C				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
9.00 3.000										
RPV-WASH-11 CLOSURE WASHER B6.50 ISI-PRI-2103 C				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
9.00 3.000										
RPV-WASH-12 CLOSURE WASHER B6.50 ISI-PRI-2103 C				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
9.00 3.000										
RPV-WASH-13 CLOSURE WASHER B6.50 ISI-PRI-2103 C				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
9.00 3.000										
RPV-WASH-14 CLOSURE WASHER B6.50 ISI-PRI-2103 C				VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
9.00 3.000										

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COMPONENT DESCRIPTION	ISOMETRIC	DIA. THICKNESS							
ITEM	MATERIAL A & B								
RELIEF									
=====									
RPV-WASH-15			VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
CLOSURE WASHER									
36.50	ISI-PRI-2103	9.00 3.000							
	C								
=====									
RPV-WASH-16			VT-1	86E-03	10/12/94	94U2-750P003	P	Y	N
CLOSURE WASHER									
36.50	ISI-PRI-2103	9.00 3.000							
	C								
=====									
S-857B			VT-3	86E-03	10/03/94	94U2-754P031	C	Y	R
RIGID SUPPORT									
N/A	ISI-PRI-2262	4.00 0.000							
J2R20/OUT2/APPROXIMATELY 1/16" GAP BETWEEN PIPE AND SUPPORT.									
=====									
SG-A-MAIN SUPPORT-4			VT-3	86E-03	10/17/94	94U2-754P065	P	Y	N
COMPONENT SUPPORT									
N/A	ISI-PRI-2202	0.00 0.000							
	C								
=====									
SG-B-MWAY-INLET-BLT-01 THRU 16			MT	B04-03	10/13/94	94U2-353P001	P	N	N
MANWAY BOLTING									
37.30	ISI-PRI-2202	0.00 0.000							
	C								
=====									

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COMPONENT DESCRIPTION		DIA.	THICKNESS							
ITEM	ISOMETRIC MATERIAL A & B									
RELIEF										
=====										
SG-B-MWAY-OUTLET-BLT-01 THRU 16 MANWAY BOLTING				MT	B04-03	10/13/94	94U2-353P002	P	N	N
B7.30	ISI-PRI-2202 C	0.00	0.000							

SI-08 RIGID SUPPORT				VT-3	86E-03	09/27/94	94U2-754P014	P	Y	N
N/A	ISI-PRI-2131	6.00	0.000							

SI-10B RIGID SUPPORT				VT-3	86E-03	10/12/94	94U2-754P044	P	Y	I
N/A	ISI-PRI-2129	6.00	0.000							
U2R20/OUT2/PIPE IS TIGHT AGAINST ONE SIDE PENETRATION.										

SI-13 RIGID SUPPORT				VT-3	86E-03	09/28/94	94U2-754P017	P	Y	N
N/A	ISI-PRI-2128	6.00	0.000							

SI-15 RIGID SUPPORT				VT-3	86E-03	09/26/94	94U2-754P004	P	Y	N
N/A	ISI-PRI-2255	2.00	0.000							

SI-16 RIGID SUPPORT				VT-3	86E-03	09/28/94	94U2-754P016	P	Y	N
N/A	ISI-PRI-2255	2.00	0.000							

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DIA. THICKNESS										
=====										
SI-27 RIGID SUPPORT N/A	ISI-PRI-2254	2.00	0.000	VT-3	86E-03	10/03/94	94U2-754P032	P	Y	N
SI-33 RIGID SUPPORT N/A	ISI-PRI-2257	2.00	0.000	VT-3	86E-03	09/26/94	94U2-754P007	C	Y	R
U2R20/OUT2/GAP BETWEEN NUTS AND SUPPORT.										
SI-34 RIGID SUPPORT N/A	ISI-PRI-2256	2.00	0.000	VT-3	86E-03	09/26/94	94U2-754P003	P	Y	N
SIS-02-SI-2001-10 VALVE SI-845D TO PIPE B9.40	ISI-PRI-2154 SS	2.00	0.344	PT	86E-03	09/27/94	94U2-451P003	P	Y	N
SIS-02-SI-2001-17 PIPE TO COUPLING B9.40	ISI-PRI-2154 SS	2.00	0.344	PT	86E-03	10/12/94	94U2-451P023	P	Y	N

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COMPONENT DESCRIPTION	ISOMETRIC	DIA.	THICKNESS							
ITEM	MATERIAL A & B									
RELIEF										
=====										
SIS-02-SI-2008-38				PT	86E-03	10/06/94	94U2-452P011	P	Y	N
PIPE TO ELBOW										
C5.30	ISI-PRI-2254 SS	2.00	0.344							
SIS-02-SI-2013-01				PT	86E-03	09/27/94	94U2-451P004	P	Y	N
TEE TO PIPE										
C5.30	ISI-PRI-2265 SS	2.00	0.344							
SIS-02-SI-2014-03				PT	86E-03	06/27/94	94U2-451P002	P	Y	N
PIPE TO ELBOW										
C5.30	ISI-PRI-2266 SS	2.00	0.344							
SIS-04-SI-2001-57				PT	86E-03	10/10/94	94U2-451P017	P	Y	N
PIPE TO ELBOW				UT	86E-03	10/13/94	94U2-161P014	P	Y	N
C5.21	ISI-PRI-2263 SS	4.00	0.337							
SIS-04-SI-2002-59				PT	86E-03	09/27/94	94U2-451P005	P	Y	N
PIPE TO TEE				UT	86E-03	09/29/94	94U2-161P001	P	Y	N
C5.21	ISI-PRI-2264 SS	4.00	0.337							

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COMPONENT DESCRIPTION				TYPE	DATE	SHEET		CREDIT	TYP
ITEM	ISOMETRIC	DIA.	THICKNESS						
RELIEF	MATERIAL A & B								
=====									
SIS-06-SI-2002-06				PT	86E-03	10/13/94	94U2-451P024	N	N
PIPE TO ELBOW				UT	86E-03	10/13/94	94U2-161P012	N	N
B9.11	ISI-PRI-2131	6.00	0.562						
	SS								
U2R20/OUT2/EXAMINATION CAN NOT BE PERFORMED DUE TO INTERFERENCE WITH SHUBBER 2HS-23.									
SIS-06-SI-2002-07				PT	86E-03	10/11/94	94U2-451P018	P	N
ELBOW TO PIPE				UT	86E-03	10/11/94	94U2-161P011	C	G
B9.11	ISI-PRI-2131	6.00	0.562						
	SS								
U2R20/OUT2/ROOT GEOMETRY.									
SIS-06-SI-2006-12				PT	86E-03	09/26/94	94U2-451P001	P	N
VALVE SI-889B TO ELBOW				UT	86E-03	10/03/94	94U2-161P005	P	N
C5.11	ISI-PRI-2239	6.00	0.432						
	SS								
SIS-10-SI-2003-10				PT	86E-03	09/29/94	94U2-451P007	P	N
PIPE TO ELBOW				UT	86E-03	09/30/94	94U2-161P003	C	G
B9.11	ISI-PRI-2126	10.00	1.000						
	SS								
U2R20/OUT2/GEOMETRY IN ROOT AREA.									

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ITEM	ISOMETRIC	DIA.	THICKNESS							
RELIEF	MATERIAL A & B									
=====										
SLWHX-LEG-2				VT-3	86E-03	10/05/94	94U2-754P041	C	Y	R
COMPONENT SUPPORT										
N/A	ISI-PRI-2205	0.00	0.000							
	CC									
U2R20/OUT2/INCOMPLETE THREAD ENGAGEMENT AND CRACKED GROUT.										

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3.4 Pressure Tests

3.4.1 ASME Section XI Pressure Tests

Following are pressure tests that have been conducted as part of the pressure test program at PBNP since the last refueling outage.

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Pressure Tests

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TEST DESCRIPTION: System Leakage Test of Class 1 Components Following Refueling Outage.

System: Reactor Coolant
Test Document: IT-235
Completion Date: October 30, 1994

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3.5 Snubber Surveillance Tests

3.5.1 ASME Section XI Snubber Surveillance Tests

Following are snubber inservice tests that have been conducted for snubbers less than 50 kips as part of the snubber surveillance test program at PBNP since the last refueling outage.

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Snubber Surveillance Tests

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TEST DESCRIPTION: Snubber Inservice Test for Snubbers Less than 50 kips.

Snubber: HS-25
Test Documents: MWR 9406517
Completion Date: October 10, 1994
Results: Acceptable

Snubber: HS-21A
Test Documents: MWR 9406518
Completion Date: October 25, 1994
Results: Acceptable

4.0 ABSTRACT OF CONDITIONS NOTED AND CORRECTIVE MEASURES TAKEN

4.1 Component/Weld

Nondestructive examinations were performed by QTS, EBASCO, and PWA personnel. The nondestructive examinations utilized VT, PT, MT, and UT techniques. All the examinations were performed in accordance with written procedures that conform to the applicable sections of the ASME Boiler and Pressure Vessel Code. The following is a summary of the recorded indications found during the examinations and evaluated by WE personnel.

IDR 94U2-7P001, Class 2 RIGID SUPPORT, H-12

Data Sheet No. 94U2-754P001, Drawing No. ISI-PRI-2262

Indication: Loose clevis nut, turnbuckle has wire instead of cotter pin

Disposition: Accept as is

This support was added to the LTP as a result of the Third Interval Program Upgrade and is the first time it was examined. The loose nut violates the acceptance criteria of IWF-3410(a)(2). The nut is not load bearing, it's only function is to prevent the threaded rod from falling out. The paint on the threaded rod prevents the nut from falling off. The nail in place of the cotter pin does not violate the acceptance criteria of IWF-3410. The support is operable, no additional or successive examinations are required.

IDR 94U2-7P002, Class 2 RIGID SUPPORT, SI-33

Data Sheet No. 94U2-754P007, Drawing No. ISI-PRI-2257

Indication: Gap between nuts and support

Disposition: Accept as is

This support was added to the LTP as a result of the Third Interval Program Upgrade and is the first time it was examined. The loose nuts violates the acceptance criteria of IWF-3410(a)(2). The loose nuts are not load bearing and perform no function per the ITT Grinnell, PIPE HANGER CATALOG PH81. The support is operable, no additional or successive examinations are required.

IDR 94U2-7P003, Class 1 SNUBBER, HS-22

Data Sheet No. 94U2-754P024, Drawing No. ISI-PRI-2135

Indication: Nut lacks complete thread engagement

Disposition: Replace bolt with longer one and reinspect

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This condition does not violate the acceptance criteria of IWF-3410. The bolt and nut were tight but the bolt was too short to allow for complete thread engagement. MWR 9409467 (RRM 94-0071) was initiated to replace the bolt with one of sufficient length to allow for full thread engagement. No additional or successive examinations are required.

IDR 94U2-7P004, Class 2 RIGID SUPPORT, H-210A
Data Sheet No. 94U2-754P015, Drawing No. ISI-PRI-2261
Indication: Gap between nut and support
Disposition: Tighten nut and reinspect

This support was added to the LTP as a result of the Third Interval Program Upgrade and is the first time it was examined. The loose nuts violates the acceptance criteria of IWF-3410(a)(2). Further investigation revealed that the locknut was tight against the load bearing nut and that neither would turn, it is believed that this condition has existed since construction. MWR 9409294 (RRM 94-0060) was initiated to tighten the load bearing nut and locknut to be in contact with the support. No additional or successive examinations are required.

IDR 94U2-7P005, Class 2 COMPONENT SUPPORT, SLWHX-LEG-2
Data Sheet No. 94U2-754P041, Drawing No. ISI-PRI-2205
Indication: Incomplete thread engagement and cracked grout pad
Disposition: Accept as is

This component was added to the LTP as a result of the Third Interval Program Upgrade and is the first time it was examined. The incomplete thread engagement does not violate the acceptance criteria of IWF-3410. Further investigation revealed that the nuts were tight against the plate, the plate was tight against the grout pad and the nuts would not turn, it is believed that this condition has existed since construction. The cracked grout violates the acceptance criteria of IWF-3410(a)(1). The cracks appear to be due to shrinkage and pose no structural impact on the anchorage condition. The component is operable, no additional or successive examinations are required.

IDR 94U2-7P006, Class 2 COMPONENT SUPPORT, RHR-A-LEG-1
Data Sheet No. 94U2-754P043, Drawing No. ISI-PRI-2204
Indication: Gap between nut and plate
Disposition: Accept as is

Paint on the anchor threads above and below the nut prevents the nut from turning, this provides evidence that the condition has existed since construction. The nut not being in

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contact with the plate violates the acceptance criteria of IWF-3410(a)(2). Condition report CR 94-465 was generated to evaluate the operability of this component. Further investigation revealed this condition had previously been identified as a result of the Seismic Verification project initiated due to NRC Generic Letter 87-02. At the time of initial identification, the condition was evaluated and found acceptable. This component is operable, no additional or successive examinations are required.

IDR 94U2-7P007, Class 2 SPRING HANGER, 2H-02B
Data Sheet No. 94U2-754P047, Drawing No. ISI-PRI-2253
Indication: Actual load higher than required load range
Disposition: Reset the load and reinspect

This condition violated the acceptance criteria of IWF-3410(a)(5). Evaluation identified that during U2R10 this hanger was inspected and the load was within the required range. Further investigation revealed that MWR 90-0269 had been issued to reset the load to 3052#, the reason for this is unknown. Condition report 94-469 was initiated to document this condition. MWR 9409371 was initiated to reset the load midway in the range. This component is operable and no additional or successive examinations are required.

IDR 94U2-7P008, Class 1 SPRING HANGER, 24-PH
Data Sheet No. 94U2-754P029, Drawing No. ISI-PRI-2146
Indication: Spring can lugs not parallel
Disposition: Accept as is

This violates the acceptance criteria of IWF-3410(a)(1). Condition report CR 94-472 was initiated to determine the operability of the hanger. A VT-1 was performed on the lug attachment welds per the condition report, no indications were noted. This condition is a result of over tightening during initial installation. The hanger is operable and no additional or successive examinations are required.

IDR 94U2-7P009, Class 1 SPRING HANGER, RC-2H2
Data Sheet No. 94U2-754P028, Drawing No. ISI-PRI-2138
Indication: Spring can lugs not parallel
Disposition: Accept as is

This violates the acceptance criteria of IWF-3410(a)(1). Condition report CR 94-473 was initiated to determine the operability of the hanger. A VT-1 was performed on the lug attachment welds per the condition report, no indications were noted. This condition is a

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result of over tightening during initial installation. The hanger is operable and no additional or successive examinations are required.

IDR 94U2-7P010, Class 1 PIPE TO ELBOW weld, AC-10-SI-2001-12

Data Sheet No. 94U2-451P015, Drawing No. ISI-PRI-2124

Indication: Undercut on the top and bottom of the weld and 8 rounded indications

Disposition: Buff out indications and reinspect

This condition violates the acceptance criteria of IWB-3514. Condition report CR 94-482 was initiated to determine operability of the system. MWR 9409373 (RRM 94-0068) was initiated to buff out the indications. The indications are fabrication related, no additional or successive examinations are required.

IDR 94U2-7P011, Class 2 SPRING HANGER, 2H-33

Data Sheet No. 94U2-754P038, Drawing No. ISI-PRI-2220

Indication: Actual load higher than required load range

Disposition: Reset load and reinspect

This condition violates the acceptance criteria of IWF-3410(a)(5). This component was added to the program as a result of the Third Interval program upgrade, and has not been previously inspected. Condition report 94-481 was initiated to document this condition and determine operability of the system. MWR 9409531 was initiated to reset the load midway in the range. This component is operable, no additional or successive examinations are required.

IDR 94U2-7P012, Class 2 RIGID SUPPORT, H-204B

Data Sheet No. 94U2-754P008, Drawing No. ISI-PRI-2259

Indication: Clevis not supporting pipe

Disposition: Adjust clevis and reinspect

This condition does not violate the acceptance criteria of IWF-3410. This component was added to the program as a result of the Third Interval program upgrade, and has not been previously inspected. Evaluation determined that the gap is acceptable as a gap $< 1/16$ " is considered active in the piping analysis. MWR 9409524 was initiated to adjust the clevis to support the load of the pipe. This component is operable, no additional or successive examinations are required.

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IDR 94U2-7P013, Class 2 RIGID SUPPORT, S-857B
Data Sheet No. 94U2-754P031, Drawing No. ISI-PRI-2262
Indication: 1/16" gap between support and pipe
Disposition: Accept as is

This condition does not violate the acceptance criteria of IWF-3410. This component was added to the program as a result of the Third Interval program upgrade, and has not been previously inspected. Evaluation determined that the gap is acceptable as a gap $< 1/8$ " is considered active in the piping analysis. This component is operable, no additional or successive examinations are required.

IDR 94U2-7P014, Class 1 SPRING HANGER, RC-15
Data Sheet No. 94U2-754P050, Drawing No. ISI-PRI-2137
Indication: Weldless eye nut lacking complete thread engagement
Disposition: Accept as is

This condition does not violate the acceptance criteria of IWF-3410. Evaluation revealed that this component was previously inspected during U2R10 with no indications recorded. This type of condition was not required to be recorded during the previous inspection. Since the nut is tight, the load is within range, and no data exist that show evidence of loosening, it is believed that this condition has existed since construction. This component is operable, no additional or successive examinations are required.

IDR 94U2-7P015, DELETED

IDR 94U2-7P016, Class 1 RIGID SUPPORT, 29-PRD
Data Sheet No. 94U2-754P062, Drawing No. ISI-PRI-2151
Indication: Three gaps along the bottom of the plate where it meets the wall
Disposition: Accept as is

This condition violates the acceptance criteria of IWF-3410(a)(1). Evaluation revealed this component was inspected during U2R10 with no recordable indications. Reporting criteria during the previous inspection did not require reporting of this condition. The gaps are located in 3 individual areas and not the entire length of the plate, they are also located lower than the projected line across the lower anchor centerline. The plate is in contact with the wall in the area of the anchors and the anchors are tight. This is a construction related deficiency. This component is operable, no additional or successive examinations are required.

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IDR 94U2-7P017, Class 1 SPRING HANGER, 29-PRE

Data Sheet No. 94U2-754P064, Drawing No. ISI-PRI-2152

Indication: Nut lacking full thread engagement, anchor missing the nut, lower rod is cocked at an angle, hole has evidence of wear.

Disposition: Accept as is

This component was added to the program as a result of the third interval program upgrade, therefore no data exist to compare this condition to. The nut with incomplete thread engagement does not violate IWF-3410, sufficient thread engagement exist for the nut to perform it's function. The missing nut on the anchor violates the acceptance criteria of IWF-3410(a)(2). The missing nut was previously identified during the 79-02 program, as a result, a modification to the support adding a supplemental angle to the plate and anchoring it to the wall was performed. The cocked rod and hole with evidence of wear violates the acceptance criteria of IWF-3410. This component is operable, no additional or successive examinations are required. EWR 94-272 was initiated to further evaluate this support.

IDR 94U2-7P018, Class 2 NOZZLE TO ELBOW weld, MS-31-MS-2002-01

Data Sheet No. 94U2-350P011, Drawing No. ISI-PRI-2245

Indication: Twelve linear indications upstream from the weld

Disposition: Buff out indications and reinspect

Nine of the linear indications violated the acceptance criteria of Table IWB-3514-2. Evaluation determined that the linear indications were caused by tack welds from alignment bars that were used during fabrication. The tack welds created a localized high stress region that caused flaws to initiate and arrest the stress. MWR 9409503 (RRM 94-0072) was initiated to remove the flaws. This component is operable, no additional or successive examinations are required.

IDR 94U2-7P019, Class 3 RIGID SUPPORT, R-185

Data Sheet No. 94U2-754P055, Drawing No. ISI-PRI-2332

Indication: Shim was 3/8" off center

Disposition: Accept as is

This condition does not violate the acceptance criteria of IWF-3410. This component is operable, no additional or successive examinations are required.

IDR 94U2-7P020, NON SECTION XI EXAMINATION

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IDR 94U2-7P021, Class 2 RIGID SUPPORT, R-2315

Data Sheet No. 94U2-754P030, Drawing No. ISI-PRI-2269

Indication: Chipped concrete where the embedded plate meets the wall

Disposition: Accept as is

The chipped concrete violates the acceptance criteria of IWF-3410(a)(1). This condition was previously identified and determined to be outside the examination boundary of the support. Condition report CR 95-020 was initiated to determine operability, root cause and track repairs if required.

IDR 94U2-7P022, Class 2 SPRING HANGER, 2H-13B

Data Sheet No. 94U2-745P075, Drawing No. ISI-PRI-2251

Indication: North hanger lug is bent, assembly is tilted, the channel beam under the pipe is bent

Disposition: Accept as is

The bent lug and channel violates the acceptance criteria of IWF-3410(a)(1). Evaluation determined that the lugs were bent during construction to allow for vertical clearance with other components, the channel is straight only the upper edge of the beam is bent approximately 1/32". During the previous inspections, insulation was installed which prevented this condition from being identified. The tilted assembly does not violate the acceptance criteria of IWF-3410. This component is operable, no additional or successive examinations are required.

4.2 Pressure Tests

No reportable indications observed.

1. Owner Wisconsin Electric Power Company, 231 W. Michigan Ave., Milwaukee WI 53201
(Name and Address of Owner)

2. Plant Point Beach Nuclear Plant, 6610 Nuclear Road, Two Rivers, WI 54241
(Name and Address of Plant)

3. Plant Unit 2 4. Owner Certificate of Authorization (if required) Docket 50-301

5. Commercial Service Date 10/01/72 6. National Board Number for Unit N/A

7. Components Inspected

[illegible]

This form (E00029) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM NIS-1 CONTINUED

8. Examination Dates 9/24/94 to 11/1/94 9. Inspection Interval from 11/16/93 to 12/1/94
 10. Applicable Editions of Section XI 1986 Addenda None

11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

Refer to attached Inservice Inspection Final Report, Section 2.0.

12. Abstract of Conditions Noted.

Refer to attached Inservice Inspection Final Report, Section 3.0.

13. Abstract of Corrective Measures Recommended and Taken.

Refer to attached Inservice Inspection Final Report, Section 3.0.

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

Certificate of Authorization No. (if applicable) NRC Docket 50-301 Expiration Date N/A

Date January 20 19 95 Signed Wisc. Electric Power Co. By John B. Brander
 Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Wisconsin and employed by HSBII, Co. of Hartford, CT have inspected the components described in this Owner's Report during the period November 16, 1993 to December 1, 1994, 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 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 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.

John Hault Commissions 10731, W178, I, N, A
 Inspector's Signature National Board, State, Province, and Endorsements

Date FEBRUARY 16 1995