



PERRY NUCLEAR POWER PLANT

10 CENTER ROAD
PERRY, OHIO 44081
(216) 259-3737

Mail Address:
P.O. BOX 97
PERRY, OHIO 44081

Michael D. Lyster
VICE PRESIDENT - NUCLEAR

June 22, 1992
PY-CEI/NRR-1515 L

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Perry Nuclear Power Plant
Docket No. 50-440
Update on Generic Letter 88-01
IGSCC Weldment Classifications

Gentlemen:

This letter provides an update to the information previously provided to the NRC staff in response to Generic Letter (GL) 88-01, "NRC Position On IGSCC [Intergranular Stress Corrosion Cracking] In BWR Austenitic Stainless Steel Piping," by letters PY-CEI/NRR-0894L dated June 29, 1988, PY-CEI/NRR-1027L dated June 15, 1989 and PY-CEI/NRR-1044L dated July 31, 1989. In particular, this letter updates the information contained in letter PY-CEI/NRR-1044L Tables 2 and 3 by adding seventeen new welds due to the replacement of Reactor Water Cleanup system piping during refueling outage (RF) 3, by identifying changes in the classification of welds due to the application of the mechanical stress improvement process (MSIP) during RF-3, and by identifying changes in examination schedules and dates since submittal of the original information. The updated Tables are included in Attachment 1, along with a summary of the changes made. If you have any questions, please feel free to call.

Sincerely,

Frank R. Stiefel for
Michael D. Lyster

MDL:CJF:ss

Attachment

cc: NRC Project Manager
NRC Resident Inspector Office
NRC Region III

9206300278 920622
PDR ADOCK 05000440
P PDR

Operating Companies
Cleveland Electric Illuminating
Toledo Edison

ADD 1

SUMMARY OF CHANGES TO TABLE 2, "WELD HISTORIES AND
INSPECTION SCHEDULES FOR GENERIC LETTER (GL) 88-01
SCOPE PIPING WELDS AT PNPP UNIT 1 (POST RF-3)"

- (1) Title of Table 2 has been revised for clarification.
- (2) Examination schedule has been updated.
- (3) Examination dates have been added for examinations performed through Refueling Outage (RF) 3.
- (4) Seventeen welds added due to replacement of carbon steel piping in the Reactor Water Cleanup (G33) system with stainless steel during RF-3.
- (5) Note 9 has been revised for clarification.
- (6) General information Note 22 has been added for clarification.

TABLE 2
WELD HISTORIES AND INSPECTION SCHEDULES FOR GL 88-01
SCOPE PIPING WELDS AT PNPP UNIT 1, REV. 1 (POST RF-3)

IGSOC CATG	WELD MARK NO.	COMPONENT DESCRIPTION	LINE SPEC	SIZE INCHES	MATERIAL	DRAWING SS-305-	TREATMENT CRC	SHI	EXAM SCHD	EXAM DATE	NOTES
A	1B33-0002	SAFE-END TO PIPE	D2-1	22	TP 304	602-102	X		RF-2	1/85 10/90	2,3,7,9,10
A	1B33-0002-D	PIPE SEAM, DOWNSTREAM	D2-1	22	TP 304	602-102		X	RF-2	1/85 10/90	1,6,9,10,12
A	1B33-0003	22" ELBOW TO PIPE	D2-1	22	TP 302	602-102		X	RF-3	1/85 4/92	1,9,10
A	1B33-0003-U	PIPE SEAM, UPSTREAM	D2-1	22	TP 304	602-102		X	RF-3	1/85 4/92	1,9,10
A	1B33-0003-D1	ELBOW SHORT SEAM, DOWNSTREAM	D2-1	22	TP 304	602-102		X	RF-3	2/85 4/92	1,9,10
A	1B33-0003-D2	ELBOW LONG SEAM, DOWNSTREAM	D2-1	22	TP 304	602-102		X	RF-3	2/85 4/92	1,9,10
A	1B33-0003A	22" ELBOW TO PIPE	D2-1	22	TP 304	602-102		X	RF-3	1/85 3/92	1,9,10
A	1B33-0003A-U1	ELBOW SHORT SEAM, UPSTREAM	D2-1	22	TP 304	602-102		X	RF-3	2/85 3/92	1,9,10
A	1B33-0003A-U2	ELBOW LONG SEAM, UPSTREAM	D2-1	22	TP 304	602-102		X	RF-3	2/85 3/92	1,9,10
A	1B33-0003A-D	PIPE SEAM, DOWNSTREAM	D2-1	22	TP 304	602-102		X	RF-3	1/85 4/92	1,9,10
A	1B33-0004	22" PIPE TO PIPE	D2-1	22	TP 304	602-102	X		NS	1/85	2,7,8,10
A	1B33-0004-U	PIPE SEAM, UPSTREAM	D2-1	22	TP 304	602-102		X	NS	1/85	1,8,10,12
A	1B33-0004-D	PIPE SEAM, DOWNSTREAM	D2-1	22	TP 304	602-102		X	NS	1/85	1,8,10,12
A	1B33-0005	22" PIPE TO ELBOW	D2-1	22	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0005-U	PIPE SEAM, UPSTREAM	D2-1	22	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0005-D1	ELBOW SHORT SEAM, DOWNSTREAM	D2-1	22	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0005-D2	ELBOW LONG SEAM, DOWNSTREAM	D2-1	22	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0006	22" ELBOW TO VALV, B33-FO23A	D2-1	22	TP 304/ 351 CF8M	602-102	X		NS	2/85	2,3,7,8,10
A	1B33-0006-U1	ELBOW SHORT SEAM, UPSTREAM	D2-1	22	TP 304	602-102		X	NS	2/85	1,8,10,12
A	1B33-0006-U2	ELBOW LONG SEAM, UPSTREAM	D2-1	22	TP 304	602-102		X	NS	2/85	1,8,10,12
A	1B33-0007	VALVE B33-FO23A TO 22" PIPE	D2-1	22	351 CF8M/ TP 304	602-102	X		NS	1/85	2,3,7,8,10
A	1B33-0007-D	PIPE SEAM, DOWNSTREAM	D2-1	22	TP 304	602-102		X	NS	2/85	1,8,10,12
A	1B33-0008	22" PIPE TO 22" X 4" SWEEPPOLE	D2-1	22	TP 304	602-102		X	RF-1	2/85 3/89	1,4,9,10,17
A	1B33-0008A	22" PIPE TO 22" X 4" SWEEPPOLET	D2-1	22	TP 304	602-102		X	NS	2/85	1,4,6,8
A	1B33-0009	22" X 4" SWEEPPOLET TO 4" PIPE	D2-1	4	TP 304	602-102		X	RF-5	2/85	8,10,11,13
A	1B33-0009-D	PIPE SEAM, DOWNSTREAM	D2-1	4	TP 304	602-102		X	RF-5	2/85	8,10,11

TABLE 2
WELD HISTORIES AND INSPECTION SCHEDULES FOR GL 88-01
SCOPE PIPING WELDS AT PNPP UNIT 1, REV. 1 (POST RF-3)

IGSOC CATG	WELD MARK NO.	COMPONENT DESCRIPTION	LINE SPEC	SIZE INCHES	MATERIAL	DRAWING SS-305-	TREATMENT CRC	SHI	EXAM SCHED	EXAM DATE	NOTES
A	1B33-0010	4" PIPE TO FLANGE	D2-1	4	TP 304	602-102		X	NS	2/85	8,10,11,13
A	1B33-0010-U	PIPE SEAM, UPSTREAM	D2-1	4	TP 304	602-102		X	NS	2/85	8,10,11
A	1B33-0011	22" PIPE TO ELBOW	D2-1	22	TP 304	602-102		X	NS	2/85	1,7,8,10
A	1B33-0011-U	PIPE SEAM, UPSTREAM	D2-1	22	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0011-D1	ELBOW SHORT SEAM, DOWNSTREAM	D2-1	22	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0011-D2	ELBOW LONG SEAM, DOWNSTREAM	D2-1	22	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0012	22" ELBOW TO PUMP COOLA CASING	D2-1	22	TP 304/ 351 CF8M	602-102	X		RF-2	2/85 10/90	2,3,7,9,10,18
A	1B33-0012-U1	ELBOW SHORT SEAM, UPSTREAM	D2-1	22	TP 304	602-102		X	RF-2	2/85 10/90	1,9,10,12
A	1B33-0012-U2	ELBOW LONG SEAM, UPSTREAM	D2-1	22	TP 304	602-102		X	RF-2	2/85 10/90	1,9,10,12
A	1B33-0014	PUMP COOLA CASING TO 24" PIPE	D2-1	24	351 CF8M/ TP 304	602-102	X		RF-3	2/85 3/92	2,3,7,8,9,10, 18
A	1B33-0014-D	PIPE SEAM, DOWNSTREAM	D2-1	24	TP 304	602-102		X	RF-3	2/85 3/92	1,9,10,12
A	1B33-0015	24" PIPE TO 24" X 4" SWEEPOLET	D2-1	24	TP 304	602-102		X	RF-5	2/85	1,4,8,10,16
A	1B33-0016	24" X 4" SWEEPOLET TO 4" PIPE	D2-1	4	TP 304	602-102		X	NS	2/85	8,10,11,13
A	1B33-0016-D	PIPE SEAM, DOWNSTREAM	D2-1	4	TP 304	602-102		X	NS	2/85	8,10,11
A	1B33-0017	4" PIPE TO FLANGE	D2-1	4	TP 304	602-102		X	NS	2/85	8,10,11,13
A	1B33-0017-U	PIPE SEAM, UPSTREAM	D2-1	4	TP 304	602-102		X	NS	2/85	8,10,11
A	1B33-0018	24" PIPE TO VALVE B33-F060A	D2-1	24	TP 304/ TP 304L	602-102	X		NS	2/85	2,3,7,8,10,18
A	1B33-0018-U	PIPE SEAM, UPSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10,12
A	1B33-0019	VALVE B33-F060A TO 24" PIPE	D2-1	24	TP 304L/ TP 304	602-102	X		NS	2/85	2,3,7,8,10,18
A	1B33-0019-D	PIPE SEAM, DOWNSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10,12
A	1B33-0020	24" PIPE TO ELBOW	D2-1	24	TP 304	602-102		X	RF-3	2/85 3/92	1,7,9,10
A	1B33-0020-U	PIPE SEAM, UPSTREAM	D2-1	24	TP 304	602-102		X	RF-3	2/85 3/92	1,9,10
A	1B33-0020-D1	ELBOW SHORT SEAM, DOWNSTREAM	D2-1	24	TP 304	602-102		X	RF-3	2/85 3/92	1,9,10
A	1B33-0020-D2	ELBOW LONG SEAM, DOWNSTREAM	D2-1	24	TP 304	602-102		X	RF-3	2/85 3/92	1,9,10
A	1B33-0021	24" ELBOW TO PIPE	D2	24	TP 304	602-102		X	NS	2/85	1,7,8,10
A	1B33-0021-U1	ELBOW SHORT SEAM, UPSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0021-U2	ELBOW LONG SEAM, UPSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0021-D	PIPE SEAM, DOWNSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10

TABLE 2
WELD HISTORIES AND INSPECTION SCHEDULES FOR GL 88-01
SCOPE PIPING WELDS AT PRR UCL 1, REV. 1 (POST RF-3)

IGSCC CATG	WELD MARK NO.	COMMENT DESCRIPTION	LINE SPEC	SIZE INCHES	MATERIAL	DRAWING SS-305	TREATMENT CKC	EXAM SHT	EXAM SCHED	EXAM DATE	NOTES
A	1B33-0022	24" PIPE TO VALVE B33-F067A	D2-1	24	TP 304/ 351 CF8M	602-102	X		NS	2/85	2,3,7,8,10,18
A	1B33-0022-U	PIPE SEAM, UPSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10,12
A	1B33-0023	VALVE B33-F067A TO 24" PIPE	D2-1	24	351 CF8M/ TP 304	602-102	X		NS	2/85	2,3,7,8,10,18
A	1B33-0023-D	PIPE SEAM, DOWNSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10,12
A	1B33-0024	24" PIPE TO ELBOW	D2-1	24	TP 304	602-102		X	NS	2/85	1,7,8,10
A	1B33-0024-U	PIPE SEAM, UPSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0024-D1	ELBOW SHORT SEAM, DOWNSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0024-D2	ELBOW LONG SEAM, DOWNSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0025	24" ELBOW TO PIPE	D2-1	24	TP 304	602-102		X	NS	2/85	1,7,8,10
A	1B33-0025-U1	ELBOW SHORT SEAM, UPSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0025-D2	ELBOW LONG SEAM, UPSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0025-D	PIPE SEAM, DOWNSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10
A	1B33-0026	24" PIPE TO 24" X 16" CROSS	D2-1	24	TP 304	602-102	X	X	NS	2/85	2,3,7,8,10
A	1B33-0026-U	PIPE SEAM, UPSTREAM	D2-1	24	TP 304	602-102		X	NS	2/85	1,8,10,12
A	1B33-0027	16" PIPE CAP TO PIPE	D2-1	16	TP 304	602-101	X		RF-2	1/85	2,3,7,9,10
A	1B33-0027-U	PIPE SEAM, UPSTREAM	D2-1	16	TP 304	602-101		X	RF-2	9/90	1,9,10,12
A	1B33-0028	16" PIPE TO 16" X 12" SWEROLET	D2-1	16	TP 304	602-101		X	RF-2	1/85	1,4,7,9,10
A	1B33-0029	16" PIPE TO 16" X 12" SWEROLET	D2-1	16	TP 304	602-101		X	RF-6	1/85	1,4,7,8,10
A	1B33-0030	16" PIPE TO 24" X 16" CROSS	D2-1	16	TP 304	602-101		X	NS	1/85	1,4,7,8,10
A	1B33-0030-D	PIPE SEAM, DOWNSTREAM	D2-1	16	TP 304	602-101		X	NS	1/85	1,8,10,12
A	1B33-0031	24" X 16" CROSS TO 16" PIPE	D2-1	16	TP 304	602-101	X		NS	1/85	2,3,6,7,8
A	1B33-0031-D	PIPE SEAM, DOWNSTREAM	D2-1	16	TP 304	602-101		X	NS	1/85	1,8,10,12
A	1B33-0032	16" PIPE TO 16" X 12" SWEROLET	D2-1	16	TP 304	602-101		X	RF-5	1/85	1,4,7,8,10
A	1B33-0033	16" PIPE TO 16" X 12" SWEROLET	D2-1	16	TP 304	602-101		X	RF-4	1/85	1,4,7,8,10
A	1B33-0034	16" PIPE TO CAP	D2-1	16	TP 304	602-101		X	NS	1/85	2,3,7,8,10
A	1B33-0034-U	PIPE SEAM, UPSTREAM	D2-1	16	TP 304	602-101	X		NS	1/85	1,8,10,12
A	1B33-0035	16" X 12" SWEROLET TO 16" PIPE	D2-1	12	TP 304	602-101	X		RF-4	1/85	2,3,7,8,10
A	1B33-0035-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		X	RF-4	1/85	1,8,10,12
A	1B33-0036	12" PIPE TO ELBOW	D2-1	12	TP 304	602-101		X	NS	1/85	1,7,8,10
A	1B33-0036-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0036-D	ELBOW SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10

TABLE 2
WELD HISTORIES AND INSPECTION SCHEDULE FOR GL 88-01
SCOPE PIPING WELDS AT ENPP UNIT 1, REV. 1 (NOT RF-3)

IGSOC CATG	WELD MARK NO.	COMPONENT DESCRIPTION	LINE SPEC	SIZE INCHES	MATERIAL	DRAWING SS-305-	TREATMENT		EXAM SCHD	EXAM DATE	NOTES
A	1B33-0037	12" ELBOW TO PIPE	D2-1	12	TP 304	602-101		X	RF-5	1/85	1,8,10
A	1B33-0037-U	ELBOW SEAM, UPSTREAM	D2-1	12	TP 304	602-101		X	RF-5	1/85	1,8,10
A	1B33-0037-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		X	RF-5	1/85	1,8,10
A	1B33-0038	12" PIPE TO SAFE-END	D2-1	12	TP 304	602-101	X		RF-5	1/85	2,3,7,8,10
A	1B33-0038-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-101		X	RF-5	1/85	1,8,10,12
A	1B33-0040	16" X 12" SWEEPolet TO 12" PIPE	D2-1	12	TP 304	602-101	X		NS	1/85	2,3,6,7,8
A	1B33-0040-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10,12
A	1B33-0041	12" PIPE TO ELBOW	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0041-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0041-D	ELBOW SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0042	12" ELBOW TO PIPE	D2-1	12	TP 304	602-101		X	RF-5	1/85	1,8,10
A	1B33-0042-U	ELBOW SEAM, UPSTREAM	D2-1	12	TP 304	602-101		X	RF-5	1/85	1,8,10
A	1B33-0042-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		X	RF-5	1/85	1,8,10
A	1B33-0043	12" PIPE TO SAFE-END	D2-1	12	TP 304	602-101	X		RF-5	1/85	2,3,7,8,10
A	1B33-0043-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-101		X	RF-5	1/85	1,8,10,12
A	1B33-0045	24" X 16" CROSS TO 24" X 12" REDUCER	D2-1	24	TP 304	602-101		X	RF-4	2/85	1,4,7,8,10
A	1B33-0046	24" X 12" REDUCER TO 12" PIPE	D2-1	12	TP 304	602-101	X		NS	1/85	2,3,7,8,10
A	1B33-0046-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10,12
A	1B33-0047	12" PIPE TO ELBOW	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0047-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0047-D	ELBOW SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0048	12" ELBOW TO PIPE	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0048-U	ELBOW SEAM, UPSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0048-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0049	12" PIPE TO SAFE-END	D2-1	12	TP 304	602-101	X		RF-5	1/85	2,3,7,8,10
A	1B33-0049-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-101		X	RF-5	1/85	1,8,10,12
A	1B33-0051	16" X 12" SWEEPolet TO 12" PIPE	D2-1	12	TP 304	602-101	X		NS	1/85	2,3,7,8,10
A	1B33-0051-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10,12
A	1B33-0052	12" PIPE TO ELBOW	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0052-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0052-D	ELBOW SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0053	12" ELBOW TO PIPE	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0053-U	ELBOW SEAM, UPSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0053-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		X	NS	1/85	1,8,10
A	1B33-0054	12" PIPE TO SAFE-END	D2-1	12	TP 304	602-101	X		RF-6	1/85	2,3,7,8,10

TABLE 2
WELD HISTORIES AND INSPECTION SCHEDULES FOR GL 88-01
SCOPE PIPING WELDS AT PWP UNIT 1, REV. 1 (POST RF-3)

IGSOC CATG	WELD MARK NO.	COMPONENT DESCRIPTION	LINE SPEC	SIZE INCHES	MATERIAL	DRAWING SS-305-	TREATMENT COC	EXAM SCHED	EXAM DATE	NOTES
A	1B33-0054-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-101		RF-6	1/85	1,8,10,12
A	1B33-0056	16" X 12" SWEEPLET TO 12" PIPE	D2-1	12	TP 304	602-101	X	RF-2	1/85	2,3,7,9,10
A	1B33-0056-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		RF-2	9/90	1,9,10,12
A	1B33-0057	12" PIPE TO ELBOW	D2-1	12	TP 304	602-101		NS	9/90	1,8,10
A	1B33-0057-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-101		NS	1/85	1,8,10
A	1B33-0057-D	ELBOW SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		NS	1/85	1,8,10
A	1B33-0058	12" ELBOW TO PIPE	D2-1	12	TP 304	602-101		RF-2	1/85	1,9,10
A	1B33-0058-U	ELBOW SEAM, UPSTREAM	D2-1	12	TP 304	602-101		RF-2	9/90	1,9,10
A	1B33-0058-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-101		RF-2	9/90	1,9,10
A	1B33-0059	12" PIPE TO SAFE-END	D2-1	12	TP 304	602-101	X	RF-2	1/85	2,3,7,9,10
A	1B33-0059-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-101		RF-2	10/90	1,9,10,12
A	1B33-0062	22" SAFE-END TO PIPE	D2-1	22	TP 304	602-104	X	RF-3	1/85	2,3,7,9,10
A	1B33-0062-D	PIPE SEAM, DOWNSTREAM	D2-1	22	TP 304	602-104		PF-3	4/92	1,9,10,12
A	1B33-0063	22" PIPE TO ELBOW	D2-1	22	TP 304	602-104		RF-2	2/85	1,9,10
A	1B33-0063-U	PIPE SEAM, UPSTREAM	D2-1	22	TP 304	602-104		RF-2	9/90	1,9,10
A	1B33-0063-D1	ELBOW SHORT SEAM, DOWNSTREAM	D2-1	22	TP 304	602-104		RF-2	1/85	1,9,10
A	1B33-0063-D2	ELBOW LONG SEAM, DOWNSTREAM	D2-1	22	TP 304	602-104		RF-2	2/85	1,9,10
A	1B33-0063A	22" ELBOW TO PIPE	D2-1	22	TP 304	602-104		RF-1	9/90	1,9,10,17
A	1B33-0063A-U1	ELBOW SHORT SEAM, UPSTREAM	D2-1	22	TP 304	602-104		RF-1	2/85	1,9,10,17
A	1B33-0063A-U2	ELBOW LONG SEAM, UPSTREAM	D2-1	22	TP 304	602-104		RF-1	3/89	1,9,10,17
A	1B33-0063A-D	PIPE SEAM, DOWNSTREAM	D2-1	22	TP 304	602-104		RF-1	2/85	1,9,10,17
A	1B33-0064	22" PIPE TO PIPE	D2-1	22	TP 304	602-104	X	NS	2/85	2,8,10

TABLE 2
WELD HISTORIES AND INSPECTION SCHEDULES FOR GL 88-01
SCOPE PIPING WELDS AT PNPP UNIT 1, REV. 1 (POST RF-3)

IGSCC CATG	WELD MARK NO.	COMPONENT DESCRIPTION	LINE SPEC	SIZE INCHES	MATERIAL	DRAWING SS-305-	TREATMENT CRC	SHI	EXAM SCFD	EXAM DATE	NOTES
A	1B33-0064-U	PIPE SEAM, UPSTREAM	D2-1	22	TP 304	602-104		X	NS	2/85	1,8,10,12
A	1B33-0064-D	PIPE SEAM, DOWNSTREAM	D2-1	22	TP 304	602-104		X	NS	2/85	1,8,10,12
A	1B33-0065	22" PIPE TO 22" X 22" X 20" TEE	D2-1	22	TP 304	602-104		X	NS	2/85	1,4,7,8,10
A	1B33-0065-U	PIPE SEAM, UPSTREAM	D2-1	22	TP 304	602-104		X	NS	2/85	1,8,10
A	1B33-0066	22" X 22" X 20" TEE TO 22" PIPE	D2-1	22	TP 304	602-104		X	NS	2/85	1,4,7,8,10
A	1B33-0066-D	PIPE SEAM, DOWNSTREAM	D2-1	22	TP 304	602-104		X	NS	2/85	1,6,8
A	1B33-0067	22" PIPE TO ELBOW	D2-1	22	TP 304	602-104		X	NS	2/85	1,8,10
A	1B33-0067-U	PIPE SEAM, UPSTREAM	D2-1	22	TP 304	602-104		X	NS	2/85	1,8,10
A	1B33-0067-D1	ELBOW SHORT SEAM, DOWNSTREAM	D2-1	22	TP 304	602-104		X	NS	2/85	1,8,10
A	1B33-0067-D2	ELBOW LONG SEAM, DOWNSTREAM	D2-1	22	TP 304	602-104		X	NS	2/85	1,8,10
A	1B33-0068	22" ELBOW TO VALVE B33-P023B	D2-1	22	TP 304/ 351 CF8M	602-104	X		NS	2/85	2,3,7,8,10,18
A	1B33-0068-U1	ELBOW SHORT SEAM, UPSTREAM	D2-1	22	TP 304	602-104		X	NS	2/85	1,8,10,12
A	1B33-0068-U2	ELBOW LONG SEAM, UPSTREAM	D2-1	22	TP 304	602-104		X	NS	2/85	1,8,10,12
A	1B33-0069	VALVE B33-P023B TO 22" PIPE	D2-1	22	351 CF8M/ TP 304	602-104	X		NS	2/85	2,3,7,8,10,18
A	1B33-0069-D	PIPE SEAM, DOWNSTREAM	D2-1	22	TP 304	602-104		X	NS	2/85	1,8,10,12
A	1B33-0070	22" PIPE TO 22" X 4" SWEEPOLET	D2-1	22	TP 304	602-104		X	NS	2/85	1,4,8,10
A	1B33-0070A	22" PIPE TO 22" X 4" SWEEPOLET	D2-1	22	TP 304	602-104		X	NS	2/85	1,4,8,10
A	1B33-0071	22" X 4" SWEEPOLET TO 4" PIPE	D2-1	4	TP 304	602-104		X	RF-2	7/83 10/90	9,10,11,13
A	1B33-0071-D	PIPE SEAM, DOWNSTREAM	D2-1	4	TP 304	602-104		X	RF-2	7/83 10/90	9,10,11
A	1B33-0072	4" PIPE TO FLANGE	D2-1	4	TP 304	602-104		X	NS	7/83	8,10,11,13
A	1B33-0072-U	PIPE SEAM, UPSTREAM	D2-1	4	TP 304	602-104		X	NS	7/83	8,10,11
A	1B33-0073	22" PIPE TO ELBOW	D2-1	22	TP 304	602-104		X	NS	2/85	1,7,8,10
A	1B33-0073-U	PIPE SEAM, UPSTREAM	D2-1	22	TP 304	602-104		X	NS	2/85	1,8,10
A	1B33-0073-D1	ELBOW SHORT SEAM, DOWNSTREAM	D2-1	22	TP 304	602-104		X	NS	2/85	1,8,10
A	1B33-0073-D2	ELBOW LONG SEAM, DOWNSTREAM	D2-1	22	TP 304	602-104		X	NS	2/85	1,8,10
A	1B33-0074	22" ELBOW TO JUMP COOLB CASING	D2-1	22	TP 304/ 351 CF8M	602-104	X		RF-3	2/85 4/92	2,3,7,9,10,18
A	1B33-0074-U1	ELBOW SHORT SEAM, UPSTREAM	D2-1	2	TP 304	602-104		X	RF-3	2/85 4/92	1,9,10,12
A	1B33-0074-U2	ELBOW LONG SEAM, UPSTREAM	D2-1	22	TP 304	602-104		X	RF-3	2/85 4/92	1,9,10,12

TABLE 2
WELD HISTORIES AND INSPECTION SCHEDULES FOR GL 88-01
SCOPE PIPING WELDS AT PNPP UNIT 1, REV. 1 (POST RF-3)

IGS CATG	WELD MARK NO.	COMPONENT DESCRIPTION	LINE SPEC	SIZE INCHES	MATERIAL	DRAWING SS-305-	TREATMENT CRC SHI	EXAM SCHD	EXAM DATE	NOTES
A	1B33-0076	PUMP COOLB CASING TO 24" PIPE	D2-1	24	351 CF8M/ TP 304	602-104	X	RF-2	2/85 10/90	2,3,7,9,10, 18
A	1B33-0076-D	PIPE SEAM, DOWNSTREAM	D2-1	24	TP 304	602-104		X	RF-2 10/90	1,9,10,12
A	1B33-0077	24" PIPE TO 24" X 4" SWEEPolet	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0078	24" X 4" SWEEPolet TO 4" PIPE	D2-1	4	TP 304	602-104		X	NS	7/83
A	1B33-0078-D	PIPE SEAM, DOWNSTREAM	D2-1	4	TP 304	602-104		X	NS	7/83
A	1B33-0079	4" PIPE TO FLANGE	D2-1	4	TP 304	602-104		X	NS	7/83
A	1B33-0079-U	PIPE SEAM, UPSTREAM	D2-1	4	TP 304	602-104		X	NS	7/83
A	1B33-0080	24" PIPE TO VALVE B33-F060B	D2-1	24	TP 304/ TP 304L	602-104	X		NS	2/85
A	1B33-0080-U	PIPE SEAM, UPSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0081	VALVE B33-F060B TO 24" PIPE	D2-1	24	TP 304L/ TP 304	602-104	X		RF-5	2/85
A	1B33-0081-D	PIPE SEAM, DOWNSTREAM	D2-1	24	TP 304	602-104		X	RF-5	2/85
A	1B33-0082	24" PIPE TO ELBOW	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0082-U	PIPE SEAM, UPSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0082-D1	ELBOW SHORT SEAM, DOWNSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0082-D2	ELBOW LONG SEAM, DOWNSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0083	24" ELBOW TO PIPE	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0083-U1	ELBOW SHORT SEAM, UPSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0083-U2	ELBOW LONG SEAM, UPSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0083-D	PIPE SEAM, DOWNSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0084	24" PIPE TO VALVE B33-F067B	D2-1	24	TP 304/ 351 CF8M	602-104	X		NS	2/85
A	1B33-0084-U	PIPE SEAM, UPSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0085	VALVE B33-F067B TO 24" PIPE	D2-1	24	351 CF8M/ TP 304	602-104	X		NS	2/85
A	1B33-0085-D	PIPE SEAM, DOWNSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0086	24" PIPE TO ELBOW	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0086-U	PIPE SEAM, UPSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0086-D1	ELBOW SHORT SEAM, DOWNSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0086-D2	ELBOW LONG SEAM, DOWNSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0087	24" ELBOW TO PIPE	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0087-U1	ELBOW SHORT SEAM, UPSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0087-U2	ELBOW LONG SEAM, UPSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0087-D	PIPE SEAM, DOWNSTREAM	D2-1	24	TP 304	602-104		X	NS	2/85
A	1B33-0088	24" PIPE TO 24" X 16" CROSS	D2-1	24	TP 304	602-104	X		RF-2 10/90	2,3,7,9,10

TABLE 2
WELD HISTORIES AND INSPECTION SCHEDULES PAR-CL 88-01
SCOPE PIPING WELDS AT PAPP UNIT 1, REV. 1 (POST RF-3)

IGSC CATG	WELD MARK NO.	COMPONENT DESCRIPTION	LINE SPEC	SIZE INCHES	MATERIAL	DRAWING SS-305-	TREATMENT CQC	TREATMENT SPIT	EXAM SCHED	EXAM DATE	NOTES
A	1B33-0088-U	PIPE SEAM, UPSTREAM	D2-1	24	TP 304	602-104		X	RF-2	2/85 10/90	1,9,10,12
A	1B33-0089	16" PIPE C ⁹⁰ TO PIPE	D2-1	16	TP 304	602-103	X		NS	1/85	2,3,7,8,10
A	1B33-0089-U	PIPE SEAM, DOWNSTREAM	D2-1	16	TP 304	602-103		X	NS	2/85	1,8,10,12
A	1B33-0090	16" PIPE TO 16" X 12" SWEEPolet	D2-1	16	TP 304	602-103		X	RF-5	2/85	1,4,7,8,10
A	1B33-0091	16" PIPE TO 16" X 12" SWEEPolet	D2-1	16	TP 304	602-103		X	RF-2	2/85 10/90	1,4,7,9,10
A	1B33-0092	16" PIPE TO 24" X 16" CROSS	D2-1	16	TP 304	602-103		X	NS	2/85	1,4,7,8,10
A	1B33-0092-D	PIPE SEAM, DOWNSTREAM	D2-1	16	TP 304	602-103		X	NS	2/85	1,8,10
A	1B33-0093	24" X 16" CROSS TO 16" PIPE	D2-1	16	TP 304	602-103	X		NS	1/85	2,3,7,8,10
A	1B33-0093-D	PIPE SEAM, DOWNSTREAM	D2-1	16	TP 304	602-103		X	NS	2/85	1,8,10,12
A	1B33-0094	16" PIPE TO 16" X 12" SWEEPolet	D2-1	16	TP 304	602-103		X	RF-4	2/85	1,4,7,8,10
A	1B33-0095	16" PIPE TO 16" X 12" SWEEPolet	D2-1	16	TP 304	602-103		X	RF-4	2/85	1,4,7,8,10
A	1B33-0096	16" PIPE TO CAP	D2-1	16	TP 304	602-103	X		NS	1/85	2,3,7,8,10
A	1B33-0096-U	PIPE SEAM, UPSTREAM	D2-1	16	TP 304	602-103		X	NS	2/85	1,8,10,12
A	1B33-0097	16" X 12" SWEEPolet TO 12" PIPE	D2-1	12	TP 304	602-103	X		RF-4	2/85	2,3,7,8,10
A	1B33-0097-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103		X	RF-4	2/85	1,8,10,12
A	1B33-0098	12" PIPE TO ELBOW	D2-1	12	TP 304	602-103		X	NS	1/85	1,8,10
A	1B33-0098-D	ELBOW SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103		X	NS	1/85	1,8,10
A	1B33-0098-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-103		X	NS	1/85	1,8,10
A	1B33-0099	12" ELBOW TO PIPE	D2-1	12	TP 304	602-103		X	RF-4	1/85	1,7,8,10
A	1B33-0099-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103		X	RF-4	1/85	1,8,10
A	1B33-0099-U	ELBOW SEAM, UPSTREAM	D2-1	12	TP 304	602-103		X	RF-4	1/85	1,8,10
A	1B33-0100	12" PIPE TO SAFE-END	D2-1	12	TP 304	602-103	X		RF-4	1/85	2,3,7,8,10
A	1B33-0100-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-103		X	RF-4	1/85	1,8,10,12
A	1B33-0102	16" X 12" SWEEPolet TO 12" PIPE	D2-1	12	TP 304	602-103	X		NS	2/85	2,3,7,8,10
A	1B33-0102-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103		X	NS	2/85	1,8,10,12
A	1B33-0103	12" PIPE TO ELBOW	D2-1	12	TP 304	602-103		X	NS	1/85	1,8,10
A	1B33-0103-D	ELBOW SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103		X	NS	1/85	1,8,10
A	1B33-0103-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-103		X	NS	1/85	1,8,10
A	1B33-0104	12" ELBOW TO PIPE	D2-1	12	TP 304	602-103		X	RF-5	1/85	1,8,10
A	1B33-0104-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103		X	RF-5	1/85	1,8,10
A	1B33-0104-U	ELBOW SEAM, UPSTREAM	D2-1	12	TP 304	602-103		X	RF-5	1/85	1,8,10
A	1B33-0105	12" PIPE TO SAFE-END	D2-1	12	TP 304	602-103	X		RF-5	1/85	2,3,7,8,10
A	1B33-0105-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-103		X	RF-5	1/85	1,8,10,12

TABLE 2
WELD HISTORIES AND INSPECTION SCHEDULES FOR GL 88-01
SCOPE PIPING WELDS AT PAPP UNIT 1, REV. 1 (POST RF-3)

IGSCC CATG	WELD MARK NO.	COMPONENT DESCRIPTION	LINE SPEC	SIZE INCHES	MATERIAL	DRAWING SS-305-	TREATMENT CNC SRT	EXAM SCHED	EXAM DATE	NOTES
A	1B33-0107	24" X 16" CROSS TO 24" X 12" PIPE RELIEF	D2-1	34	TP 304	602-103	X	RF-1	2/85 4/89	1, 4, 7, 9, 10, 17
A	1B33-0108	24" X 12" RELIEF TO 12" PIPE	D2-1	12	TP 304	602-103	X	NS	2/85	2, 3, 7, 8, 10
A	1B33-0108-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103	X	NS	2/85	1, 8, 10, 12
A	1B33-0109	12" PIPE TO ELBOW	D2-1	12	TP 304	602-103	X	NS	1/85	1, 7, 8, 10
A	1B33-0109-D	ELBOW SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103	X	NS	1/85	1, 8, 10
A	1B33-0109-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-103	X	NS	1/85	1, 8, 10
A	1B33-0110	12" ELBOW TO PIPE	D2-1	12	TP 304	602-103	X	NS	1/85	1, 8, 10
A	1B33-0110-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103	X	NS	1/85	1, 8, 10
A	1B33-0110-U	ELBOW SEAM, UPSTREAM	D2-1	12	TP 304	602-103	X	NS	1/85	1, 8, 10
A	1B33-0111	12" PIPE TO SAFE-END	D2-1	12	TP 304	602-105	X	RF-2	1/85 11/90	2, 3, 7, 9, 10
A	1B33-0111-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-103	X	RF-2	1/85 11/90	1, 9, 10, 12
A	1B33-0113	16" X 12" SWEEPLET TO 12" PIPE	D2-1	12	TP 304	602-103	X	NS	2/85	2, 3, 7, 8, 10
A	1B33-0113-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103	X	NS	2/85	1, 8, 10, 12
A	1B33-0114	12" PIPE TO ELBOW	D2-1	12	TP 304	602-103	X	NS	1/85	1, 8, 10
A	1B33-0114-D	ELBOW SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103	X	NS	1/85	1, 8, 10
A	1B33-0114-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-103	X	NS	1/85	1, 8, 10
A	1B33-0115	12" ELBOW TO PIPE	D2-1	12	TP 304	602-103	X	NS	1/85	1, 8, 10
A	1B33-0115-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103	X	NS	1/85	1, 8, 10
A	1B33-0115-U	ELBOW SEAM, UPSTREAM	D2-1	12	TP 304	602-103	X	NS	1/85	1, 8, 10
A	1B33-0116	12" PIPE TO SAFE-END	D2-1	12	TP 304	602-103	X	RF-5	1/85	2, 3, 7, 8, 10
A	1B33-0116-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-103	X	RF-5	1/85	1, 8, 10, 12
A	1B33-0118	16" X 12" SWEEPLET TO 12" PIPE	D2-1	12	TP 304	602-103	X	RF-5	2/85	2, 3, 7, 8, 10
A	1B33-0118-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103	X	RF-5	2/85	1, 8, 10, 12
A	1B33-0119	12" PIPE TO ELBOW	D2-1	12	TP 304	602-103	X	NS	1/85	1, 7, 8, 10
A	1B33-0119-D	ELBOW SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103	X	NS	1/85	1, 8, 10
A	1B33-0119-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-103	X	NS	1/85	1, 8, 10
A	1B33-0120	12" ELBOW TO PIPE	D2-1	12	TP 304	602-103	X	RF-4	1/85	1, 8, 10
A	1B33-0120-D	PIPE SEAM, DOWNSTREAM	D2-1	12	TP 304	602-103	X	RF-4	1/85	1, 8, 10
A	1B33-0120-U	ELBOW SEAM, UPSTREAM	D2-1	12	TP 304	602-103	X	RF-4	1/85	1, 8, 10
A	1B33-0121	12" PIPE TO SAFE-END	D2-1	12	TP 304	602-103	X	RF-4	1/85	2, 3, 7, 8, 10
A	1B33-0121-U	PIPE SEAM, UPSTREAM	D2-1	12	TP 304	602-103	X	RF-4	1/85	1, 8, 10, 12
A	1G33-0067	4" X 22" SWEEPLET TO 4" PIPE BI-METALLIC WELD, SS HAS CRC	D1-1	4	TP 304/ SA106	671-105	X	RF-3	1/83 4/92	5, 9, 10, 11, 14
A	1G33-0113	4" X 22" SWEEPLET TO 4" PIPE BI-METALLIC WELD, SS HAS CRC	D1-1	4	TP 304/ SA106	671-107	X	RF-2	2/83 10/90	5, 9, 10, 11, 14

TABLE 2
WELD HISTORIES AND INSPECTION SCHEDULES FOR GL 88-01
SCOPE PIPING WELDS AT PNP UNIT 1, REV. 1 (POST 2F-3)

PY-CEI/NPR-1515 L
Attachment 1
Page 11 of 18

IGSCC CATG	WELD MARK NO.	COMPONENT DESCRIPTION	LINE SPEC	SIZE INCHES	MATERIAL	DRAWING SS-305-	TREATMENT CRC SHT	EXAM SCHD	EXAM DATE	NOTES
A	1E12-0001	22" X 22" X 20" TEE TO 20" PIPE. (CRC ON TEE ONLY)	L1-1	20	TP 304/ SA 182 F316L	64-118	X	RF-2	9/84 10/90	5,9,10,11
A	1E12-0001a	20" SS PIPE TO 20" CS PIPE BI-METALLIC WELD	D1-1	20	F316L/ SA106	642-118	NONE, MAIL CONFORMS	RF-4	9/84	5,8,10,11,15
A	1B13-N5A-KC	SAFE-END TO SAFE-END EXTENSION	D1-1	12	SB-166/ SA-508 CL-1	006-109	NONE, MAIL CONFORMS	RF-2	11/84 10/90	9,10,11,19, 20,21
A	1B13-N5B-KC	SAFE-END TO SAFE-END EXTENSION	D1-1	12	SB-166/ SA-508 CL-1	006-109	NONE, MAIL CONFORMS	PF-2	11/84 10/90	9,10,11,19, 20,21
A	1B13-N6A-KC	SAFE-END TO SAFE-END EXTENSION	D1-1	12	SB-166/ SA-508 CL-1	006-109	NONE, MAIL CONFORMS	RF-2	11/84 10/90	9,10,11,19, 20,21
A	1B13-N6B-KC	SAFE-END TO SAFE-END EXTENSION	D1-1	12	SB-166/ SA-508 CL-1	006-109	NONE, MAIL CONFORMS	RF-2	11/84 11/90	9,10,11,19, 20,21
A	1B13-N6C-KC	SAFE-END TO SAFE-END EXTENSION	D1-1	12	SB-166/ SA-508 CL-1	006-109	NONE, MAIL CONFORMS	RF-2	11/84 11/90	9,10,11,19, 20,21
A	1G33-0071	SS BENT PIPE TO CS PIPE	D25-1	4	SA-376 TP 347/ SA-106	671-103	NONE, MAIL CONFORMS	RF-4	4/92	1,8,15,22
A	1G33-0073	PIPE TO BENT PIPE	D25-1	4	SA-376 TP 347	671-105	NONE, MAIL CONFORMS	RF-5	4/92	1,8,22
A	1G33-0075	TEE TO PIPE	D25-1	4	SA-376 TP 347	671-105	NONE, MAIL CONFORMS	NS	4/92	1,8,22
A	1G33-0076	PIPE TO TEE	D25-1	4	SA-376 TP 347	671-105	NONE, MAIL CONFORMS	NS	4/92	1,8,22
A	1G33-0078	PIPE TO BENT PIPE	D25-1	4	SA-376 TP 347	671-105	NONE, MAIL CONFORMS	NS	4/92	1,8,22
A	1G33-0080	CS PIPE TO SS PIPE	D25-1	4	SA-106/ SA-376 TP 347	671-105	NONE, MAIL CONFORMS	RF-5	4/92	1,8,15,22
A	1G33-0088	PIPE TO TEE	D25-1	4	SA-376 TP 347	671-106	NONE, MAIL CONFORMS	NS	4/92	1,8,22
A	1G33-0090	PIPE TO BENT PIPE	D25-1	4	SA-376 TP 347	671-106	NONE, MAIL CONFORMS	NS	4/92	1,8,22
A	1G33-0091	PIPE TO PIPE	D25-1	4	SA-376 TP 347	671-106	NONE, MAIL CONFORMS	NS	4/92	1,8,22

TABLE 2
WELD HISTORIES AND INSPECTION SCHEDULES FOR CL 88-01
SCOPE PIPING WELDS AT PNPP UNIT 1, REV. 1 (POST RF-3)

IGSOC CATG	WELD MARK NO.	COMPONENT DESCRIPTION	LINE SPEC	SIZE INCHES	MATERIAL	DRAWING SS-305-	TREATMENT CRC SHI	EXAM SCHD	EXAM DATE	NOTES
A	1G33-0092	BENT PIPE TO PIPE	D25-1	4	SA-376 TP 347	671-106	NONE, MATL CONFORMS	NS	4/92	1,8,22
A	1G33-0094	BENT PIPE TO PIPE	D25-1	4	SA-376 TP 347	671-106	NONE, MATL CONFORMS	NS	4/92	1,8,22
A	1G33-0096	BENT PIPE TO PIPE	D25-1	4	SA-376 TP 347	671-106	NONE, MATL CONFORMS	NS	4/92	1,8,22
A	1G33-0097	PIPE TO PIPE	D25-1	4	SA-376 TP 347	671-106	NONE, MATL CONFORMS	NS	4/92	1,8,22
A	1G33-0099	PIPE TO BENT PIPE	D25-1	4	SA-376 TP 347	671-106	NONE, MATL CONFORMS	NS	4/92	1,8,22
A	1G33-0101	PIPE TO BENT PIPE	D25-1	4	SA-376 TP 347	671-107	NONE, MATL CONFORMS	RF-7	4/92	1,8,22
A	1G33-0103	PIPE TO BENT PIPE	D25-1	4	SA-376 TP 347	671-107	NONE, MATL CONFORMS	RF-4	4/92	1,8,22
A	1G33-0106	CS PIPE TO SS PIPE	D25-1	4	SA-106/ SA-376 TP 347	671-107	NONE, MATL CONFORMS	RF-5	4/92	1,8,15,22

TABLE 2

NOTES:

1. Received a pre-service examination using IGSCC detection methodology.
2. Received a pre-service examination using CRC examination methodology.
3. Limited examination with CRC technique.
4. Limited examination with IGSCC technique.
5. Limited examination with Section XI technique.
6. PSI recordable indications not exceeding the Section XI acceptance criteria.
7. OD weld build-up for NDE application.
8. Examination date is for PSI.
9. First examination date is for PSI, later examination dates are for ISI.
10. No recordable indications other than geometric reflectors.
11. Did not receive a PSI examination with IGSCC or CRC methodology.
12. Longitudinal seams which received a PSI examination with IGSCC and CRC methodology. (The CRC examination method was applied on the portion of the longitudinal seams that were covered with CRC cladding on the ID surface).
13. IGSCC examinations, when performed, will be designated as "limited" due to component configuration.
14. Examined from the carbon steel side only.
15. Examined from the carbon steel and the stainless steel sides.
16. Repaired area (OD build-up, due to repaired area).
17. Received IGSCC examination during first refueling outage.
18. CRC on pipe side of weld only.
19. The N5 and N6 nozzles which have a safe-end to safe-end extension weld have been categorized as resistant per EPRI Report NP-5882M, "Stress Corrosion Cracking Resistance of Alloys 600 and 690 and Compatible Weld Metals in BWRs", July 1988.
20. Inconel buttering was not applied to the carbon steel S-E extension.
21. SFA-5.3C AWS classification IN 82 used as the consumable insert, INCO 82 used for the hot pass, with INCO 182 used as the remaining fill material.
22. Weld is in stainless steel reactor water clean-up piping replacement performed in RF-3.

GENERAL INFORMATION NOTE:

CE supplied piping does not conform to thickness specified in line spec D2-1, this piping was supplied per original specification.

SUMMARY OF CHANGES TO TABLE 3, "WELD HISTORIES AND
INSPECTION SCHEDULES FOR GL 88-01 SCOPE RPV NOZZLE
ASSEMBLY WELDS AT PNPP UNIT 1 (POST RF-3)"

- (1) Title has been revised for clarification.
- (2) IGSCC Weld Category has been updated to identify changes in weld classifications due to application of the mechanical stress improvement process (MSIP) during refueling outage (RF) 3. The weld category for weld mark nos. 1B13-N4C-KB and 1B13-N4E-KE (N4C and N4E Feedwater Nozzle to safe-end welds) has been updated to Category E as previously reported to the NRC staff in letter PY-CEI/NRR-1491L dated May 8, 1992. The weld category for all remaining RPV nozzle assembly welds has been updated to category C following application of MSIP. All reclassifications are in accordance with the guidelines contained in Generic Letter 88-01, "NRC Position on IGSCC in PWR Austenitic Stainless Steel Piping" and NUREG-0313 Revision 2, "Technical Report on Material Selection and Processing Guidelines for BWR Coolant Pressure Boundary Piping."
- (3) Mitigation Treatment Column has been revised to identify the application of MSIP, the IGSCC Mitigation Technique applied during RF-3.
- (4) Examination Schedule has been updated.
- (5) Examination dates have been added for examinations performed through RF-3.
- (6) For clarification, note 1 has been revised, original note 4 has been deleted and new notes 4 through 8 have been added. New notes 4 through 8 provide information on weld reclassifications.
- (7) General information footnotes have been revised for clarification.
- (8) Penetration seal material has been added for completeness.

TABLE 3
WELD HISTORIES AND INSPECTION SCHEDULES FOR GL 88-01
SCOPE RPV NOZZLE ASSEMBLY WELDS AT INPP UNIT 1, REV. 1 (POST RF-3)

FY-CEL/NPR-1515 L
Attachment 1
Page 15 of 18

IGSCC CATG	WELD MARK NO.	DESCRIPTION	SIZE	NOZZLE MATERIAL	NOZZLE BUTTERING	SAFE-END MATERIAL	SAFE-END BUTTERING	INSPECTION MATERIAL	FILLER MATERIAL	MIGRATION TREATMENT	EXAM METHOD	EXAM DATE	NOTES
C	1B13-N1A-KB	RECIRC. OUTLET NOZZLE N1A TO SAFE-END	22"	SA-508 CL II	INCO 182	TP 304	NONE	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 10/90 4/92	2,4,7
C	1B13-N1B-KB	RECIRC. OUTLET NOZZLE N1B TO SAFE-END	22"	SA-508 CL II	INCO 182	TP 304	NONE	IN	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 10/90 4/92	2,4,7
C	1B13-N2A-KB	RECIRC. INLET NOZZLE N2A TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-182 F316L	INCO 82	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	10/84 10/90 4/92	1,2,4,7
C	1B13-N2B-KB	RECIRC. INLET NOZZLE N2B TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-182 F316L	INCO 82	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	10/84 10/90 4/92	1,2,4,7
C	1B13-N2C-KB	RECIRC. INLET NOZZLE N2C TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-182 F316L	INCO 82	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	10/84 10/90 4/92	1,2,4,7
C	1B13-N2D-KB	RECIRC. INLET NOZZLE N2D TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-182 F316L	INCO 82	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	10/84 10/90 4/92	1,2,4,7
C	1B13-N2E-KB	RECIRC. INLET NOZZLE N2E TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-182 F316L	INCO 82	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 10/90 4/92	1,2,4,7
C	1B13-N2F-KB	RECIRC. INLET NOZZLE N2F TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-182 F316L	INCO 82	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 10/90 4/92	1,2,4,7
C	1B13-N2G-KB	RECIRC. INLET NOZZLE N2G TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-182 F316L	INCO 82	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	10/84 10/90 4/92	1,2,4,7
C	1B13-N2H-KB	RECIRC. INLET NOZZLE N2H TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-182 F316L	INCO 82	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 10/90 4/92	1,2,4,7
C	1B13-N2J-KB	RECIRC. INLET NOZZLE N2J TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-182 F316L	INCO 82	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 10/90 4/92	1,2,4,7
C	1B13-N2K-KB	RECIRC. INLET NOZZLE N2K TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-182 F316L	INCO 82	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 10/90 4/92	1,2,4,7
C	1B13-N4A-KB	FEEDWATER NOZZLE N4A TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-508 CL I	INCO 182	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 11/90 4/92	1,2,4,7

TABLE 3
WELD HISTORIES AND INSPECTION SCHEDULES FOR CL 88-01
SCOPE RPV NOZZLE ASSEMBLY WELDS AT INPP UNIT 1, REV. 1 (POST RF-3)

PY-CEL/NRR-1515 L
Attachment 1
Page 16 of 18

IGSCC CATG	WELD MARK NO.	DESCRIPTION	SIZE	NOZZLE MATERIAL	NOZZLE BUTTERING	SAFE-END MATERIAL	SAFE-END BUTTERING	INSERT MATERIAL	FILLER MATERIAL	MITIGATION TREATMENT	EXAM SCHD	EXAM DATE	NOTES
C	1B13-N4B-KB	FEEDWATER NOZZLE N4B TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-508 CL I	INCO 182	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 11/90 4/92	1,2,4,7
E	1B13-N4C-KB	FEEDWATER NOZZLE N4C TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-508 CL I	INCO 182	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-4 RF-5	11/84 11/90 4/92	1,2,5,8
C	1B13-N4D-KB	FEEDWATER NOZZLE N4D TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-508 CL I	INCO 182	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-4	11/84 11/90 4/92	1,2,4,7
E	1B13-N4E-KB	FEEDWATER NOZZLE N4E TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-508 CL I	INCO 182	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 11/90 4/92	1,2,6,8
C	1B13-N4F-KB	FEEDWATER NOZZLE N4F TO SAFE-END	12"	SA-508 CL II	INCO 182	SA-508 CL I	INCO 182	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 11/90 4/92	1,2,4,7
C	1B13-N5A-KB	LOW PRES. CORE SPRAY NOZZLE TO SAFE-END	12"	SA-508 CL II	INCO 182	SB-166	NONE	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 11/90 4/92	1,2,4,7
C	1B13-N5B-KB	HIGH PRES. CORE SPRAY NOZZLE TO SAFE-END	12"	SA-508 CL II	INCO 182	SB-166	NONE	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 11/90 4/92	1,2,4,7
C	1B13-N6A-KB	RHR NOZZLE N6A TO SAFE-END	12"	SA-508 CL II	INCO 182	SB-166	NONE	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 11/90 4/92	1,2,4,7
C	1B13-N6B-KB	RHR NOZZLE N6B TO SAFE-END	12"	SA-508 CL II	INCO 182	SB-166	NONE	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 11/90 4/92	1,2,4,7
C	1B13-N6C-KB	RHR NOZZLE N6C TO SAFE-END	12"	SA-508 CL II	INCO 182	SB-166	NONE	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 11/90 4/92	1,2,4,7
C	1B13-N9A-KB	JET PUMP INSTRU- MENT NOZZLE N9A TO SAFE-END	4"	SA-508 CL II	INCO 182	TP-304	NONE	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 10/90 4/92	3,4,7
C	1B13-N9B-KB	JET PUMP INSTRU- MENT NOZZLE N9B TO SAFE-END	4"	SA-508 CL II	INCO 182	TP-304	NONE	IN 82	INCO 82	MSIP	RF-2 RF-3 RF-5	11/84 10/90 4/92	3,4,7

TABLE 3
WELD HISTORIES AND INSPECTION SCHEDULES FOR CL 88-01
SCOPE RPV NOZZLE ASSEMBLY WELDS AT PNPP UNIT 1, REV. 1 (POST RF-3)

IGSOC CATG	WELD MARK NO.	DESCRIPTION	SIZE	NOZZLE MATERIAL	NOZZLE BUTTERING	SAFE-END MATERIAL	SAFE-END BUTTERING	INSERT MATERIAL	FILLER MATERIAL	MITIGATION TREATMENT	EXAM SCD	EXAM DATE	NOTES
C	1B13-N9A-KC	JET PUMP INSTRUMENT NOZZLE SAFE-END TO PENETRATION SEAL	4"	SA-182 F304L (PENE. SEAL)	N/A	TP-304	NONE	IN 82	ER 308L	MSIP	RF-1 RF-3 RF-5	6/89 10/90 4/92	3,4,7
C	1B13-N9B-KC	JET PUMP INSTRUMENT NOZZLE SAFE-END TO PENETRATION SEAL	4"	SA-182 F304L (PENE. SEAL)	N/A	TP-304	NONE	IN 82	ER 308L	MSIP	RF-1 RF-3 RF-5	6/89 10/90 4/92	3,4,7

MISC/5899/SS

TABLE 3

NOTES:

1. Limited examinations covered by Relief Request IR-001.
2. Examined using mechanized equipment and techniques.
3. Examined using manual equipment and techniques.
4. Examined in RF-2 (1990) utilizing IGSCC methodology. Upgraded the IGSCC Category from G to D.
5. Examined in RF-2 (1990) utilizing IGSCC methodology. Found reportable ID surface planar flaw 12.5% through wall in depth and 7.5% of circumference in length. IGSCC Category changed from G to F.
6. Examined in RF-2 (1990) utilizing IGSCC methodology. Found reportable ID surface planar flaw 12.5% through wall in depth and 4.2% of circumference in length. IGSCC Category change from G to F.
7. MSIP performed in RF-3 (1992) with pre and post IGSCC exams performed. Upgraded the IGSCC Category from D to C.
8. MSIP performed in RF-3 (1992) with pre and post IGSCC exams performed. Surface planar flaws reported in RF-2 were found to be essentially unchanged in size both prior to and after MSIP. Upgraded the IGSCC Category from F to E.

GENERAL INFORMATION NOTES:

- A. During preservice the nozzle to safe-end welds received a Section XI examination, but did not receive an augmented examination using IGSCC methodology.
- B. The jet pump instrumentation nozzle safe-end to penetration seal welds received a Section XI examination (PSI) and an augmented IGSCC examination during RF01.
- C. INCO 82 is the trade name for SFA-5.14 type ER NiCr-3 GTAW bare welding rod.
- D. INCO 182 is the trade name for SFA-5.11 type E NiCrFe-3 SMAW covered welding electrode.
- E. IN 82 is the AWS classification for SFA-5.30 consumable inserts.
- F. Where INCO 82 is designated as the filler material, INCO 82 is used on the hot passes and INCO 182 was used for the fill passes.