

# INSTALLATION & SERVICE ENGINEERING DIVISION

## UNIT I PSI REPORT UPDATE

June 4, 1981

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PDR ADDCK 05000373  
Q PDR

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# INSTALLATION & SERVICE ENGINEERING DIVISION

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# RECEIVING INSPECTION REPORT

RIR No. SIR-007

For Items List No. NA

Line No. NA

## PART NO. 1

Project LaSalle 162 PSI Project No. LCS-PC173-2 Purchase Order No. 391NC172-X 3 LSW

Description Glycerine Product Specification & Rev. NA

## PART NO. 2 CHARACTERISTICS TO BE INSPECTED:

Prepared by L Wheatley Date 4/10/80

- |                             |           |
|-----------------------------|-----------|
| 1) <u>Quantity</u>          | 6) _____  |
| 2) <u>Certification</u>     | 7) _____  |
| 3) <u>Markings</u>          | 8) _____  |
| 4) <u>Chemical Analysis</u> | 9) _____  |
| 5) _____                    | 10) _____ |

## PART NO. 3 RECEIVING INSPECTION

Markings Dow Glycerine USP 99.5%

Heat & Lot Or Serial No. DH0307C H041

Characteristics Inspected:		A - Accepted		R - Rejected	
1) <u>55 gal</u>	3) <u>A</u>	5) _____	7) _____	9) _____	
2) <u>A</u>	4) <u>A</u>	6) _____	8) _____	10) _____	

Remarks: (List Characteristic No. and reason for rejection)

Nonconformities:

Is Component or Appurtenance Code-Stamped Yes ☐ No ☒ Inspected By LQ Wheatley Date 4/10/80

## PART NO. 4 RECEIVING VERIFICATION

	Yes	No	NA
Recorded markings meet the requirements of the Product Spec. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Heat & lot numbers match the Material Certification _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Serial Numbers match the Data Reports (Code-stamped items only) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Recorded characteristics meet the requirements of the Product Spec. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Material Certifications and Test Reports meet the requirements of the Product Spec. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Material Certifications and Test Reports accepted by QA/QC Supervisor (owner purchased items only) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Date Reports acceptable (Code-stamped items only) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Verified by LQ Wheatley Date 4/10/80

Reviewed by AI \_\_\_\_\_ Date \_\_\_\_\_

## INSPECTION CHECKLIST

LASALLE COUNTY STATION UNIT #

IC NO. GEL-1094 REV. 2

PAGE 1 of 1

REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR LD D. Lantry DATE 4/30/81

SIZE	EXAM COMP ID NO	DWG. REV. NO.	ASME CAT	COMP FIG	PROCEDURE NO.	REV. NO.	EXAM TYPE	EDS NO.	CDS NO.	LSCS CAL STD. NO.	LDS NO.	Q.C. REVIEW SIGNATURE/DATE	AI INIT/DATE
00	01	02	03	04	05	06	07	08	09	10	11	12	13
N/A	GEL-1094-N8	0	B-F	N-F	2	7	PT	97092	77435	01-91-08	0036	LD D. Lantry 4/30/81	wjc 4-30-81
					1	6	UT-00	77436	77437	01-91-08	0038		
					1	6	UT-450	77438		01-91-08			

INSPECTION CHECKLIST

LASALLE COUNTY STATION UNIT 1

IC NO. GEL-1095 REV. 2

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REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR DD Whaley DATE 4/30/81

SIZE	EXAM COMP ID NO	DWG. REV. NO.	ASME CAT	COMP FIG	PROCEDURE NO.	REV. NO.	EXAM TYPE	EDS NO.	CDS NO.	LSCS CAL STD. NO.	LDS NO.	Q.C. REVIEW SIGNATURE/DATE	AI INIT/DATE
00	01	02	03	04	05	06	07	08	09	10	11	12	13
N/A	GEL-1095-N7	0	B-F	N-F	2 1 1	7 6 6	PT UT-00 UT-45	97098 77436 77437	77435 77437	01-91-08 01-91-08	0036 0038	<u>DD Whaley</u> 4/30/81	<u>W J Caldwell</u> 4-30-81
N/A	GEL-1095-N18	0	B-F	N-F	2 1 1	7 6 6	PT UT-00 UT-45	97098 77436 77438	77435 77437	01-91-08 01-91-08	0036 0038	<u>DD Whaley</u> 4/30/81	<u>W J Caldwell</u> 4-30-81

INSPECTION CHECKLIST  
LASALLE COUNTY STATION UNIT 1

IC NO. 1-NIR REV. 3

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REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR L.D. Wheatley DATE 4/15/81

SIZE 00	EXAM COMP ID NO 01	DWG. REV. NO. 02	ASME CAT 03	COMP FIG 04	PROCEDURE NO. 05	REV. NO. 06	EXAM TYPE 07	EDS NO. 08	CDS NO. 09	LSCS CAL STD. NO. 10	LDS NO. 11	Q.C. REVIEW SIGNATURE/DATE 12	AI INIT/DATE 13
N/A	1-NIR-6C	0	B-D	NIR	13 13 16 16	0 0 0 0	Z1CW Z1CCW Z2CW Z2CCW	97005 45523 16020 16020	97000 45500 16017 16017	MP-1 MP-1 MP-1 MP-1	N/A N/A N/A N/A	L.D. Wheatley 4/15/81	ref 4-15-81
N/A	1-NIR-9A	0	B-D	NIR	13 13 17	0 0 0	Z1CW Z1CCW Z2	45520 45520 84661	45519 45519 84660	MP-1 MP-1 01-91-04	N/A N/A 84660	L.D. Wheatley 4/24/81	w g c 5-11-81
N/A	1-NIR-9B	0	B-D	NIR	13 13 17	0 0 0	Z1CW Z1CCW Z2	45521 45521 84662	45519 45519 84660	MP-1 MP-1 01-91-04	N/A N/A 84660	L.D. Wheatley 4/24/81	w g c 5-11-81
N/A	1-NIR-10	0	B-D	NIR	13 13 16 16	0 0 0 0	Z1CW Z1CCW Z2CW Z2CCW	97018 97018 16016 16016	97017 97017 16015 16015	MP-1 MP-1 MP-1 MP-1	N/A N/A N/A N/A	L.D. Wheatley 4/15/81	ref 4-15-81
N/A	1-NIR-16	0	B-D	NIR	13 13 16 16	0 0 0 0	Z1CW Z1CCW Z2CW Z2CCW	97001 45502 73007 73007	97000 45500 73005 73005	MP-1 MP-1 MP-1 MP-1	N/A N/A N/A N/A	L.D. Wheatley 4/15/81	ref 4-15-81

## INSPECTION CHECKLIST

### LASALLE COUNTY STATION UNIT 1

IC NO. IHP-PU REV. 4

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REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR L.D. Wheatley DATE 4/30/81

SIZE 00	EXAM COMP ID NO 01	DWG. REV. NO. 02	ASME CAT 03	COMP FIG 04	PROCEDURE NO. 05	REV. NO. 06	EXAM TYPE 07	EDS NO. 08	CDS NO. 09	LSCS CAL STD. NO. 10	LDS NO. 11	Q.C. REVIEW SIGNATURE/DATE 12	AI INIT/DATE 13
14"	IHP-PU-1	0	C-F	E-F	2 1 1	6 6 6	PT UT-00 UT-450	97054 93272 93274	93271 93273	01-70-04 01-70-04	0053 0054	L.D. Wheatley 4/30/81	wjc 4-30-81
6"	IHP-PU-2	0	C-F	P-E	2 1 1	6 6 6	PT UT-00 UT-450	97054 93272 93274	93271 93273	01-70-04 01-70-04	0053 0054	L.D. Wheatley 4/30/81	wjc 4-30-81
14"	IHP-PU-3	0	C-F	PL-E	2 1 1	6 6 6	PT UT-00 UT-450	97054 93272 93274	93271 93273	01-70-04 01-70-04	0054 0054	L.D. Wheatley 4/30/81	wjc 4-30-81
36"	IHP-PU-4	0	C-F	PL-SH	2	7	PT			N/A		Inaccessible See RI-17	
24"	IHP-PU-5	0	C-F	P-SH	2 1 1	6 5 5	PT UT-00 UT-450	97054 77281 77284	77279 77282	01-24-02 01-24-02	0034 0028	L.D. Wheatley 4/30/81 Partial Exams due to Inaccessibility	wjc 4-30-81
24"	IHP-PU-6	0	C-F	P-F	2 1 1	7 5 5	PT UT-00 UT-450	77281 77279 77284	77279 77284	01-24-02 01-24-02	0034 0028	Partial Exams due to Inaccessibility	
36"	IHP-PU-7A	0	C-F	PULS	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IHP-PU-7B	0	C-F	PULS	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	



INSPECTION CHECKLIST

LASALLE COUNTY STATION UNIT 1

IC NO. IHP-PU REV. 1

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REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR [Signature] DATE 4/30/81

SIZE	EXAM	COMP	ID	NO	DWG. REV. NO.	ASME CAT NO.	COMP FIG NO.	PROCEDURE NO.	REV. NO.	EXAM TYPE	EDS NO.	CDS NO.	LSCS CAL STD. NO.	LDS NO.	Q.C. REVIEW SIGNATURE/DATE	AI INIT/DATE
00	01				02	03	04	05	06	07	08	09	10	11	12	13
36"	IHP-PU-7C				0	C-F	PULS	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IHP-PU-8A				0	C-F	SH-SH	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IHP-FU-8B				0	C-F	SH-SH	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IHP-PU-8C				0	C-F	HD-SH	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
6"	IHP-PU-9				0	C-F	HD-SP	2	7	PT					Inaccessible See RI-17	

INSPECTION CHECKLIST  
LASALLE COUNTY STATION UNIT 1

IC NO. ILP-PU REV 2

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REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR L.D. Wheatley DATE 4/30/81

SIZE	EXAM COMP ID NO	DWG. REV. NO. 02	ASME CAT 03	COMP FIG 04	PROCEDURE NO. 05	REV. NO. 06	EXAM TYPE 07	EDS NO. 08	CDS NO. 09	LSCS CAL STD. NO. 10	LDS NO. 11	Q.C. REVIEW SIGNATURE/DATE 12	AI INIT/DATE 13
00	01												
14"	ILP-PU-1	0	C-F	P-F	2 1 1	6 6 6	PT UT-0° UT-45°	77054 77275 77278				L.D. Wheatley 4/30/81	w j c 4-30-81
6"	ILP-PU-2	0	C-F	P-E	2 1 1	6 5 6	PT UT-0° UT-45°	77054 74446 74453				L.D. Wheatley 4/30/81	w j c 4-30-81
6"	ILP-PU-2	0	C-F	P-E	2 1 1	6 6 6	PT UT-0° UT-45°	77054 77275 77278				L.D. Wheatley 4/30/81	w j c 4-30-81
14"	ILP-PU-3	0	C-F	PL-E	2 1 1	6 6 6	PT UT-0° UT-45°	77054 77275 77278				L.D. Wheatley 4/30/81	w j c 4-30-81
36"	ILP-PU-4	0	C-F	PL-SH	2	6	PT			N/A		Inaccessible See RI-17	
24"	ILP-PU-5	0	C-F	P-SH	2 1 1	6 6 6	PT UT-0° UT-45°	77054 77280 77285				L.D. Wheatley 4/30/81 Partial Exams due to Inaccessibility	w j c 4-30-81
24"	ILP-PU-6	0	C-F	P-F	2 1 1	6 6 6	PT UT-0° UT-45°	77054 77280 77285				L.D. Wheatley 4/30/81 Partial Exams due to Inaccessibility	w j c 4-30-81
36"	ILP-PU-7	0	C-F	SH-SH	2 1 1	6 5 5	PT UT-0° UT-45°					Inaccessible See RI-17	

## LASALLE COUNTY STATION UNIT 1

IC NO. ILP-PU REV.1

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REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR L.D. Dineen DATE 4/30/81

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## INSPECTION CHECKLIST

### LASALLE COUNTY STATION UNIT 1

IC NO. IRH-PU1A REV. 3

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REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR L.D. Wheatley DATE 4/30/81

SIZE 00	EXAM COMP ID NO 01	DWG. REV. NO. 02	ASME CAT 03	COMP FIG 04	PROCEDURE NO. 05	REV. NO. 06	EXAM TYPE 07	EDS NO. 08	CDS NO. 09	LSCS CAL STD. NO. 10	LDS NO. 11	Q.C. REVIEW SIGNATURE/DATE 12	AI INIT/DATE 13
14"	IRH-PU1A-1	0	C-F	E-F	2 1 1	5 4 4	PT UT-00 UT-450	91153 91155 91163	91154 91156 91161	01-14-03 01-14-03	0010 0010	L.D. Wheatley 4/30/81	w j C 4-30-81
6"	IRH-PU1A-2	0	C-F	P-E	2 1 1	5 4 4	PT UT-00 UT-450	91153 91157 91161	91156 91156 91160	01-06-03 01-06-03	0010 91160	L.D. Wheatley 4/30/80	w j C 4-30-81
6"	IRH-PU1A-2	0	C-F	P-E	2 1 1	5 4 4	PT UT-00 UT-450	91153 91155 91163	91154 91154 91161	01-14-03 01-14-03	0010 0010	L.D. Wheatley 4/30/81	w j C 4-30-81
14"	IRH-PU1A-3	0	C-F	PL-E	2 1 1	5 4 4	PT UT-00 UT-450	91153 91155 91163	91154 91154 91161	01-14-03 01-14-03	0010 0010	L.D. Wheatley 4/30/81	w j C 4-30-81
36"	IRH-PU1A-4	0	C-F	PL-SH	2	7	PT					Inaccessible See RI-17	
24"	IRH-PU1A-5	0	C-F	P-SH	2 1 1	5 4 4	PT UT-00 UT-450	91150 91152 91158	91151 91151 91158	01-24-02 01-24-02	0010 0010	L.D. Wheatley 4/30/81 Partial Exams Due to Inaccessibility	w j C 4-30-81
24"	IRH-PU1A-6	0	C-F	P-F	2 1 1	5 4 4	PT UT-00 UT-450	91150 91152 91159	91151 91151 91158	01-24-02 01-24-02	0010 0010	L.D. Wheatley 4/30/81 Partial Exams Due to Inaccessibility	w j C 4-30-81
36"	IRH-PU1A-7A	0	C-F	PULS	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	

## INSPECTION CHECKLIST LASALLE COUNTY STATION UNIT 1

IC NO. IRH-PUIA REV. 3

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REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR DD D. Day DATE 4/30/81

SIZE	EXAM	COMP	ID	NO	DWG. REV. NO.	ASME CAT 03	COMP FIG 04	PROCEDURE NO. 05	REV. NO. 06	EXAM TYPE 07	EDS NO. 08	CDS NO. 09	LSCS CAL STD. NO. 10	LDS NO. 11	Q.C. REVIEW SIGNATURE/DATE 12	AI INIT/DATE 13
00		01														
36"	IRH-PUIA-7B				0	C-F	PULS	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IRH-PUIA-7C				0	C-F	PULS	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IRH-PUIA-8A				0	C-F	SH-SH	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IRH-PUIA-8B				0	C-F	SH-SH	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IRH-PUIA-8C				0	C-F	SH-HD	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
6"	IRH-PUIA-9				0	C-F	HD-SP	2	7	PT					Inaccessible See RI-17	

INSPECTION CHECKLIST  
LASALLE COUNTY STATION UNIT 1

IC NO. IRH-PU1B REV. 3

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REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR L.D. Wheatley DATE 4/30/81

SIZE 00	EXAM COMP ID NO 01	DWG. REV. NO. 02	ASME CAT 03	COMP FIG 04	PROCEDURE NO. 05	REV. NO. 06	EXAM TYPE 07	EDS NO. 08	CDS NO. 09	LSCS CAL STD. NO. 10	LDS NO. 11	Q.C. REVIEW SIGNATURE/DATE 12	AI INIT/DATE 13
14"	IRH-PU1B-1	0	C-F	E-F	2 1 1	5 4 4	PT UT-00 UT-450	5351 91135 91141	91134 91140	01-14-03 01-14-03	0010 0013	L.D. Wheatley 4/30/81	wjc 4-30-81
6"	IRH-PU1B-2	0	C-F	P-E	2 1 1	5 4 4	PT UT-00 UT-450	91133 91137 91144	91136 91143	01-06-03 01-06-03	0010 0009	L.D. Wheatley 4/30/81	wjc 4-30-81
6"	IRH-PU1B-2	0	C-F	P-E	2 1 1	5 4 4	PT UT-00 UT-450	91133 91135 91141	91134 91140	01-14-03 01-14-03	0010 0010	L.D. Wheatley 4/30/81	wjc 4-30-81
14"	IRH-PU1B-3	0	C-F	PL-E	2 1 1	5 4 4	PT UT-00 UT-450	91133 91135 91142	91134 91140	01-14-03 01-14-03	0010 0010	L.D. Wheatley 4/30/81	wjc 4-30-81
36"	IRH-PU1B-4	0	C-F	PL-SH	2	7	PT					Inaccessible See RI-17	
24"	IRH-PU1B-5	0	C-F	P-SH	2 1 1	5 4 4	PT UT-00 UT-450	91147 91146 91149	91145 91148	01-24-02 01-24-02	0010 0009	L.D. Wheatley 4/30/81 Partial Exams Due to Inaccessibility	wjc 4-30-81
36"	IRH-PU1B-6	0	C-F	P-F	2 1 1	5 4 4	PT UT-00 UT-450	91133 91139 91149	91138 91148	01-24-02 01-24-02	0010 0009	L.D. Wheatley 4/30/81 Partial Exams Due to Inaccessibility	wjc 4-30-81
36"	IRH-PU1B-7A	0	C-F	PULS	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	



## INSPECTION CHECKLIST LASALLE COUNTY STATION UNIT 1

IC NO. IRH-PU1B REV 3  
PAGE 2 of 2

REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR [Signature] DATE 4/30/81

SIZE	EXAM COMP ID NO	DWG. REV. NO.	ASME CAT	COMP FIG	PROCEDURE NO.	REV. NO.	EXAM TYPE	EDS NO.	CDS NO.	LSCS CAL STD. NO.	LDS NO.	Q.C. REVIEW SIGNATURE/DATE	AI INIT/DATE
00	01	02	03	04	05	06	07	08	09	10	11	12	13
36"	IRH-PU1B-7B	0	C-F	PULS	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IRH-PU1B-7C	0	C-F	PULS	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IRH-PU1B-8A	0	C-F	SH-SH	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IRH-PU1B-8B	0	C-F	SH-S	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IRH-PU1B-8C	0	C-F	SH-HD	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
6"	IRH-PU1B-9	0	C-F	HD-SP	2	7	PT					Inaccessible See RI-17	

## INSPECTION CHECKLIST

LASALLE COUNTY STATION UNIT 1

IC NO. IRH-PUIC REV. 2

PAGE 1 of 2

REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR L.D. Whalley DATE 4/30/81

SIZE 00	EXAM COMP ID NO C1	DWG. REV. NO. 02	ASME C-T C3	COMP FIG 04	PROCEDURE NO. 05	REV. NO. 06	EXAM TYPE 07	EDS NO. 08	CDS NO. 09	LSCS CAL STD. NO. 10	LDS NO. 11	Q.C. REVIEW SIGNATURE/DATE 12	AI INIT/DATE 13
14"	IRH-PUIC-1	1	C-F	E-F	2 1 1	6 6 6	PT UT-0° UT-45°	97056 77275 77277				L.D. Whalley 4/30/81	w j. Caldwell 4-30-81
6"	IRH-PUIC-2	1	C-F	P-E	2 1 1	6 5 6	PT UT-0° UT-45°	97056 94446 94453				L.D. Whalley 4/30/81	w j. Caldwell 4-30-81
14"	IRH-PUIC-2	1	C-F	P-E	2 1 1	6 6 6	PT UT-0° UT-45°	97056 77275 77277				L.D. Whalley 4/30/81	w j. Caldwell 4-30-81
14"	IRH-PUIC-3	1	C-F	PL-E	2 1 1	6 6 6	PT UT-0° UT-45°	97056 77275 77277				L.D. Whalley 4/30/81	w j. Caldwell 4-30-81
36"	IRH-PUIC-4		C-F	PL-SH	2	7	PT					Inaccessible See RI-17	
24"	IRH-PUIC-5	1	C-F	P-SH	2 1 1	6 6 6	PT UT-0° UT-45°	97056 77281 77283				L.D. Whalley 4/30/81	w j. Caldwell 4-30-81
24"	IRH-PUIC-6	1	C-F	P-F	2 1 1	6 6 6	PT UT-0° UT-45°	97056 77281 77284				L.D. Whalley 4/30/81	w j. Caldwell 4-30-81
36"	IRH-PUIC-7A	1	C-F	PULS	2 1 1	7 6 6	PT UT-0° UT-45°					Inaccessible See RI-17	

## INSPECTION CHECKLIST

LASALLE COUNTY STATION UNIT 1

IC NO. IRH-PU1C REV. 1

PAGE 2 of 2

REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR L. D. King DATE 4/30/61

SIZE	EXAM COMP ID NO	DWG. REV. NO.	ASME CAT 03	COMP FIG 04	PROCEDURE NO. 05	REV. NO. 06	EXAM TYPE 07	EDS NO. 08	CUS NO. 09	LSCS CAL STD. NO. 10	LDS NO. 11	Q.C. REVIEW SIGNATURE/DATE 12	AI INIT/DATE 13
00	01												
36"	IRH-PU1C-7B	1	C-F	PULS	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IRH-PU1C-7C	1	C-F	PULS	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IRH-PU1C-8A	1	C-F	SH-SH	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IRH-PU1C-8B	1	C-F	SH-SH	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
36"	IRH-PU1C-8C	1	C-F	SH-HD	2 1 1	7 6 6	PT UT-00 UT-450					Inaccessible See RI-17	
9"	IRH-PU1C-9	1	C-F	HD-SP	2	7	PT					Inaccessible See RI-17	

INSPECTION CHECKLIST  
LASALLE COUNTY STATION UNIT 1

IC NO. IRH-1023 REV. 2

PAGE 1 of 1

REVIEWED AND APPROVED BY:

Q.C. SUPERVISOR L D Wheatley DATE 3/29/81

SIZE 00	EXAM COMP ID NO 01	DWG. REV. NO. 02	ASME CAT 03	COMP FIG 04	PROCEDURE NO. 05	REV. NO. 06	EXAM TYPE 07	EDS NO. 08	CDS NO. 09	LSCS CAL STD. NO. 10	LDS NO. 11	Q.C. REVIEW SIGNATURE/DATE 12	AT INIT/DATE 13
18"	IRH-1023-2	0	C-F	E-P	2 1 1	7 6 6	PT UT-0° UT-45°	77617 92290 77622	92284 77619	01-18-01 01-18-01	0065 0064	L D Wheatley 4/30/81	wjc 5-11-81
18"	IRH-1023-4A	0	C-F	P-E	2 1 1	7 6 6	PT UT-0° UT-45°	77614 92290 77621	92284 77619	01-18-01 01-18-01	0065 0064	L D Wheatley 4/13/81 NCR-106	wjc 5-13-81
18"	IRH-1023-7	0	C-F	E-P	2 1 1	7 6 6	PT UT-0° UT-45°	77614 92290 77620	92284 77619	01-18-01 01-18-01	0065 0064	L D Wheatley 4/30/81	wjc 5-11-81
18"	IRH-1023-8	0	C-F	P-E	2 1 1	7 6 6	PT UT-0° UT-45°	77614 92284 92286	92283 92285	01-18-01 01-18-01	0064 0062	L D Wheatley 4/23/81	wjc 5-11-81
18"	IRH-1023-9	0	C-F	E-P	2 1 1	7 6 6	PT UT-0° UT-45°	77614 92284 92287	92283 92285	01-18-01 01-18-01	0064 0062	L D Wheatley 4/23/81	wjc 5-11-81
18"	IRH-1023-14	0	C-F	P-E	2 1 1	7 6 6	PT UT-0° UT-45°	77613 92290 77623	92284 77619	01-18-01 01-18-01	0065 0064	L D Wheatley 4/23/81	wjc 5-11-81
18"	IRH-1023-16	0	C-F	E-P	2 1 1	7 6 6	PT UT-0° UT-45°	77613 92284 92288	92283 92285	01-18-01 01-18-01	0065 0062	L D Wheatley 4/23/81	wjc 5-11-81

## NONCONFORMITY REPORT

REVISION NO. 0

Project La Salle I PSI Report No. INCR-106  
Initiated By L.W. Wheatley Date 4/2/81  
Project No. LCS-PO173-1 Drawing No. IRH-1023  
Item, Assembly Joint No. Weld IRH-1023-4A  
Heat & Lot, Serial No. (if applicable) NA  
Identity Record No. Nonconformity Noted (Traveler, RIR, Item List UT,  
RT Report, etc.) No. EDS 77616

## Description of Nonconformity

Minimum wall violations caused during removal of PT indications. See  
enclosed EDS 77616 for details.

## Proposed Resolution

RESOLUTION PER CECO ENGINEERING

Signature L.W. Wheatley Date 4/2/81

## Comments

See EDS 92295, 92406, 92408 For re-examination after weld repair.

Resolution Approved By L.W. Wheatley Date 4/2/81  
Reviewed with ANI By W.G. Caldwell Date 5-11-81  
Completed L.W. Wheatley Date 5/11/81





LASALLE COUNTY NUCLEAR STATION  
U.T. CALIBRATION FORM

FORM # 77615  
DATE 3-27-81  
EXAMINER CAHomer LEVEL II DATA TAKER NA LEVEL NA  
INSTRUMENT MODEL CL 202 SER# 801203  
TRANSDUCER SIZE .25 FREQ. NA MHZ SERIAL NO. A28031  
CALIBRATION STD. CSC-1/CS Step Wedge MATERIAL CS  
COUPLANT Glycerine INITIAL CALIBRATION TIME 1243

(CALIBRATION DATA)

STANDARD THICKNESS	INSTRUMENT READING
1.486	1.486
1.253	1.254
.755	.755
.500	.501
.300	.302
.200	.202

CAL. VERIFICATION TIMES:

Final Cal. Check: 1535

- Gain
- Sweep
- Delay
- Filter
- Rep. Rate
- Dampening
- Reject
- Digital Range
- Calibrate
- Velocity

INSTRUMENT START	SETTINGS: FINISH
N/A	
2330	2330

NDE Sup  
SOL Counselly 3/30/81  
LW Whitley 4/2/81 GE. QC

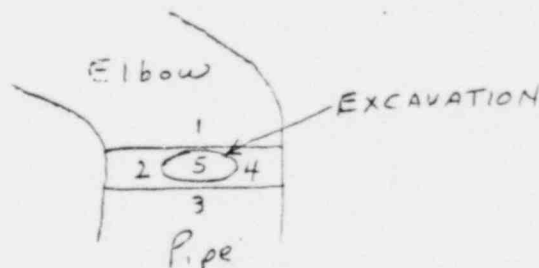
EXAM FORM # 77616  
CAL. FORM # 77615  
DATE 3-27-81

EXAMINER Ch. Hombler LEVEL II DATA TAKEN NA LEVEL NA

MATERIAL THICKNESS	1/ .687	2/ .618	3/ .596	4/ .671
PIT GAUGE READINGS	5/ .464			
REMAINING WALL THK.				

WELD NO. IRH-1023-4A NOMINAL PIPE THICKNESS 0.57  
NCR. NO. INCR-106 MINIMUM WALL -0.499

EXCAVATION LOCATED T.D.C



MATERIAL THICKNESS				
PIT GAUGE READINGS				
REMAINING WALL THK.				

WELD NO. \_\_\_\_\_ NOMINAL PIPE THICKNESS \_\_\_\_\_  
NCR. NO. \_\_\_\_\_ MINIMUM WALL \_\_\_\_\_

NDF Sup.  
S. D. Smalley  
3/30/81  
L. D. Wheatley 4/2/81 GE-QC

A. PROCEDURE NO. PP-S751 REV. 7

## B. EXAMINATION PERSONNEL:

NAME Larry M. Caldwell LEVEL IINAME J. J. [Signature] LEVEL II

## C. PENETRANT MATERIALS:

a. MANUFACTURER MAGNAFLUX-SPOTCHECK

b. PRE-CLEANING SOLVENT TYPE SKC-S BATCH NO. 79C014

c. PENETRANT TYPE SKL-HF /SKL-S BATCH NO. 79B109

d. PENETRANT REMOVER TYPE SKC-S BATCH NO. 79C014

e. DEVELOPER TYPE SKD-S BATCH NO. 79E033

f. POST EXAMINATION CLEANER TYPE SKC-S BATCH NO. 79C014

## D. PRE-EXAMINATION REQUIREMENTS:

## a. TEMPERATURE:

1. PENETRANT MATERIALS BETWEEN 60° F & 125° F - YES ☒ NO ☐

2. COMPONENT SURFACE BETWEEN 60° F & 125° F - YES ☒ NO ☐

## b. SURFACE PREPARATION:

\*1. GRINDING \*2. FLAPPERING \*3. NONE \*4. OTHERE. DATA: NOTE: All Exam components are ASME Sect. XI Category. C-F

LINE NO.	DATE	02 PRE-CLEAN EVAP. TIME	03 PEN. DWELL TIME	04 PEN. REM. EVAP. TIME	05 DEV. TIME	06 EXAMINATION COMPONENT I.D. NO.	07 MAT'L	08 SURF. PREP. #	RELEVANT INDICATION		ACCEPTABLE		RELEVANT INDICATION LOCATION/SIZE OR COMMENTS
									YES 09	NO 10	YES 11	NO 12	
1	4-28	5	10	5	15	IRH-1008-23	CS	2		X	X		
2	4-28	5	10	5	15	IRH-1023-4A	CS	2		X	X		INSPECT 5" EACH SIDE TDC - REPAIR AREA
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

NOTE: FOR EACH EXAM COMPONENT ID NO., PLACE THE APPLICABLE NUMBER(S) (1,2,3 etc) IN ITS APPROPRIATE COLUMN.

REVIEWED BY: NCS SUPERVISOR

QC SUPERVISOR

AUTHORIZED INSPECTOR

DATE

DATE

DATE

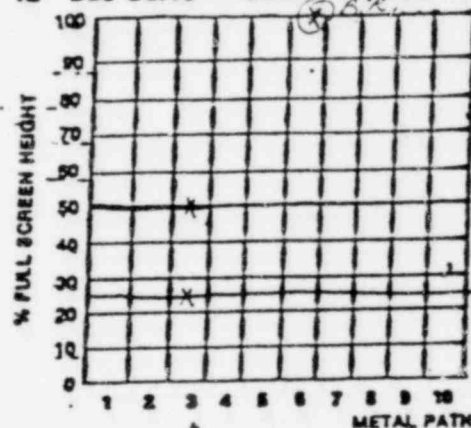
4/29/815/1/815-11-81

- A. Procedure No. MPUP-5751 REV. 6
- B. Examination Personnel: NAME SEALY LEVEL II NAME McWilliams LEVEL IT
- C. Instrument: SERIAL NO. 1348 MAKE/MODEL: - BRANSON/303: ☐ SONIC/MK I ☒ KK/USL32 ☐ OTHER
- D. Search Unit: BEAM ANGLE/MODE: ☒ STRAIGHT BEAM/LONG WAVE: ☐ 45°/TRANS WAVE: ☐ 60°/TRANS WAVE  
 TRANSDUCER SIZE/FREQ: ☐ 0.25" DIA/2.25 MHz ☐ 0.5" DIA/2.25 MHz ☐ 1.0" DIA/2.25 MHz  
 SERIAL NO.: A22010 ☐ 1.0" DIA/2.25 MHz ☒ 0.5"x0.5"/2.25 MHz  
 TRANSDUCER TYPE: ☐ CERAMIC SINGLE ELEMENT ☒ CERAMIC DUAL ELEMENT ☐ OTHER  
 WEDGE TYPE: ☒ STANDARD WEDGE ☐ SPECIAL WEDGE/TYPE  
 CALCULATED BEAM ANGLE IN MATERIAL:  $\theta_2 = 0^\circ$
- E. Cable LENGTH: 6 FT. TYPE: ☐ RG-58 ☐ RG-59 ☐ RG-57 ☒ RG-174 ☐ OTHER
- F. Calibration Orientation: CALIBRATION REFERENCE REFLECTOR: ☐ PARALLEL ☒ TRANSVERSE TO PIPE AXIS  
 FOR DUAL ELEMENT: SPLIT FOR MAXIMUM RESPONSE ☒ PARALLEL ☐ TRANSVERSE to hole center
- G. Calibration Standard: LSCS CAL STD. NO. C-15-01 THICKNESS .57" DIAMETER 15"  
 MATERIAL: ☒ CARBON ☐ STAINLESS ☐ INCONEL ☐ OTHER
- H. Couplant: ☒ GLYCERINE ☐ ULTRAGEL ☐ OTHER
- I. Comments:

#### J. Dec Curve - Data

REFLECTOR	PEAK AMP	W1	Wm	W2	MP1	MPm	MP2	HOLE DEPTH
00	01	02	03	04	05	06	07	08
WT of 1/8 Vee								
WT of 1/8 Vee	50?					.24		.24
WT of 1/8 Vee								
B.P. of 1/8 Vee	100?					.57		
	+6							

#### K. Dec Curve - Screen Representation



#### L. Instrument Settings/Checks

CONTROLS	SET	CHECK BOXES							
00	01	02	03	04	05	06	07	08	09
GAIN	36	-							
SCAN GAIN	44	-							
SWEEP	15/6.70	-							
DELAY	7.52	-							
FILTER	AUTO	-							
REP RATE	MED	-							
PENING	OFF	-							
REJECT	OFF	-							
OTHER	NA	-							

#### M. Calibration Time - Records

1991 DATE	01 ORIG. CAL TIME	02 CAL CHECK TIME	03 LAST E.D.S. #	04 LAST E.D.S. LINE #	05 VERIFICATION OF 25°F LIMIT (YES/NO)
4-29	1300	NA	NA	NA	YES
4-29	NA	1450	92406	1	YES

N. Reviewed By: NOE SUPERVISOR SP Connelly  
 Q.C. SUPERVISOR W.D. [Signature]  
 AUTHORIZED INSPECTOR W.D. [Signature]

DATE 4/30/81  
 DATE 5/1/81  
 DATE 5-11-81

## EXHIBIT 3

### ULTRASONIC EXAMINATION DATA SHEET LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP-S751 REV. 6

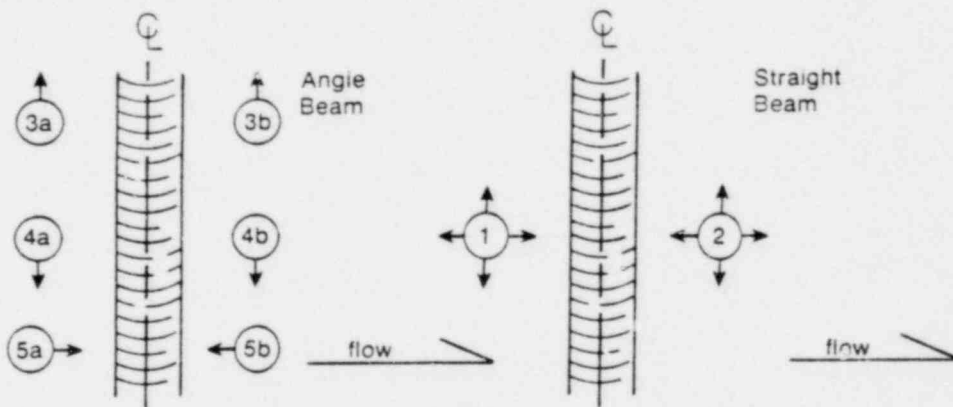
EXAMINATION PERSONNEL:  
NAME [Signature] LEVEL II; NAME ME Williams LEVEL IT

SEARCH UNIT BEAM ANGLE: 0°: X 45°:      60°:      OTHER     

COUPLANT: GLYCERINE: X ULTRAGEL II:      OTHER     

SCAN SENSITIVITY: (+) 8 dB

SCAN ORIENTATION



DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/W1	Lm/Wm	L2/W2	MP1	MPm	MP2	SCAN	STAT.	COMMENTS
4-29	1	IRH-1023 4A	P-E		.59	.63	.68					A	Scan of Repair Area - 5" Each Side of TDC

REVIEWED BY: [Signature] DATE 4/30/81  
NDE SUPERVISOR [Signature] DATE 5/1/81  
QC SUPERVISOR [Signature] DATE 5-11-81  
AUTHORIZED INSPECTOR [Signature] DATE 5-11-81



INSTALLATION & SERVICE ENGINEERING DIVISION

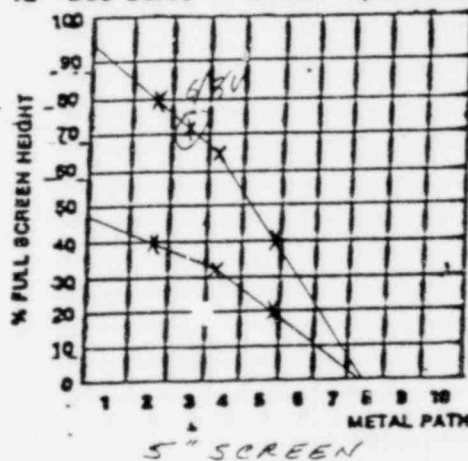
A. Procedure No. MPUP-5751 REV. 6  
 Examination Personnel NAME SELAG LEVEL II NAME ME Williams LEVEL IT  
 Instrument SERIAL NO. 521 MAKE/MODEL: - BRANSON/303: ☐ SONIC/MK I; ☒ KK/USL32 ☐ OTHER  
 B. Search Unit BEAM ANGLE/MODE: ☐ STRAIGHT BEAM/LONG WAVE; ☒ 45°/TRANS WAVE; ☐ 60°/TRANS WAVE  
 TRANSDUCER SIZE/FREQ: ☐ 0.25" DIA/2.25 MHz; ☒ 0.5" DIA/2.25 MHz; ☐ 1.0" DIA/2.25 MHz  
 SERIAL NO.: 107944; ☐ 1.0" DIA/2.25 MHz; ☒ 0.5"x0.5"/2.25 MHz  
 TRANSDUCER TYPE: ☒ CERAMIC SINGLE ELEMENT ☐ CERAMIC DUAL ELEMENT ☐ OTHER  
 WEDGE TYPE: ☒ STANDARD WEDGE ☐ SPECIAL WEDGE/TYPE  
 CALCULATED BEAM ANGLE IN MATERIAL:  $\theta_2 =$  44.7°

E. Cable LENGTH: 6 FT. TYPE: ☐ RG-58 ☐ RG-59 ☐ RG-57 ☒ RG-174 ☐ OTHER  
 F. Calibration Orientation: CALIBRATION REFERENCE REFLECTOR: ☐ PARALLEL ☒ TRANSVERSE TO PIPE AXIS  
 FOR DUAL ELEMENT: SPLIT FOR MAXIMUM RESPONSE ☐ PARALLEL ☐ TRANSVERSE to hole center  
 G. Calibration Standards: LSCS CAL STD. NO. 01-18-01 THICKNESS .57" DIAMETER 1.8"  
 MATERIAL: ☒ CARBON ☐ STAINLESS ☐ INCONEL ☐ OTHER  
 H. Couplant: ☒ GLYCERINE ☐ ULTRAGEL ☐ OTHER  
 I. Comments: +6 dB = 6/8 V TO 100% DAC

### J. Dac Curve — Data

REFLECTOR	PEAK AMP dB	W1 dB	Wm dB	W2 dB	MP1 dB	MPm dB	MP2 dB	HOLE DEPTH in.
WT of 4/8 Vee	80?		.57			.80		
WT of 5/8 Vee	65?		1.16			1.65		
WT of 12/16 Vee	40?		1.72			2.45		
S.R. of 6/8 Vee	100?		1.87			1.2		.27

### K. Dac Curve — Screen Representation



### L. Instrument Settings/Checks

CONTROLS	SET	CHECK BOXES							
		01	02	03	04	05	06	07	08
GAIN	46	/							
SCAN GAIN	54	/							
SWEEP	25/8.83	/							
DELAY	7.54	/							
FILTER	AUTO	/							
REP RATE	MED	/							
PENING	OFF	/							
REJECT	OFF	/							
OTHER	NA	/							

### M. Calibration Time — Records

1981 DATE	01 DRG. CAL TIME	02 CAL CHECK TIME	03 LAST E.D.S. #	04 LAST E.D.S. LINE #	05 VERIFICATION OF 25°F LIMIT (YES/NO)
4-29	1315	NA	NA	NA	YES
4-29	NA	1450	92408	2	YES

N. Reviewed by: NDE SUPERVISOR McConnell  
 Q.C. SUPERVISOR McConnell  
 AUTHORIZED INSPECTOR McConnell

DATE 4/30/81  
 DATE 5/1/81  
 DATE 5-11-81



## EXHIBIT 3

### ULTRASONIC EXAMINATION DATA SHEET LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP-S751 REV. 6

#### EXAMINATION PERSONNEL:

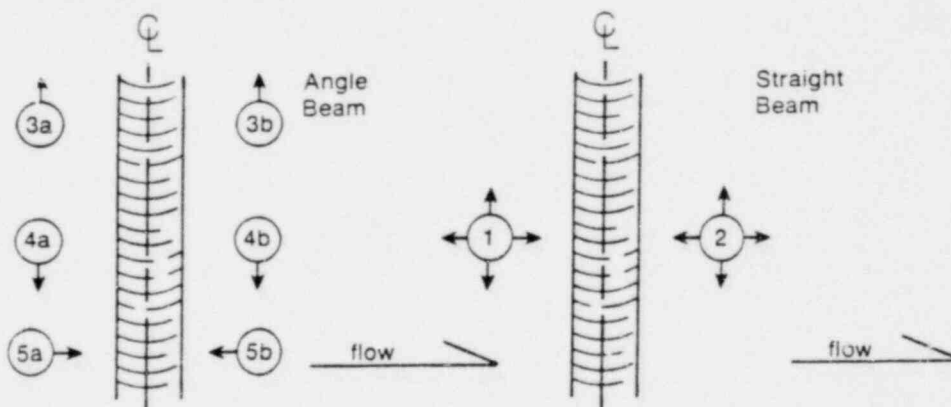
NAME J. E. Cully LEVEL IF; NAME M. E. Williams LEVEL IT

SEARCH UNIT BEAM ANGLE: 0°:      45°: X 60°:      OTHER     

COUPLANT: GLYCERINE: X ULTRAGEL II:      OTHER     

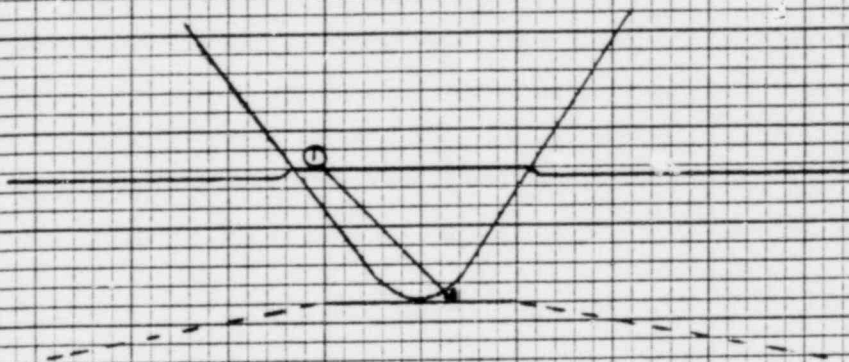
SCAN SENSITIVITY: (+) 8 dB

#### SCAN ORIENTATION



DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/W1	Lm/Wm	L2/W2	MP1	MPm	MP2	SCAN	STAT.	COMMENTS
4-29	1	IRN-1023 4A	P-E	50		INT .5			.85		5B	E	Scan of Repair Area 5' Each Side of TDC
4-29	2	4A	P-E	50		INT .65			1.65		5B	A	FDFT

REVIEWED BY: S. O. Connelly DATE 4/30/81  
 NDE SUPERVISOR L. V. Whately DATE 5/1/81  
 QC SUPERVISOR W. J. Cathwell DATE 5-11-81  
 AUTHORIZED INSPECTOR

LASALLE UNIT 21 $T_p =$  .59WELD IRH-1023-4A $T_w =$  .63EDS 92408 $T_e =$  .68GENERAL  ELECTRIC

LINE	EVALUATION
1	ID geometry from weld root

EVALUATED BY L W Wheatley  
Level IIIDATE 5/1/81REVIEWED BY W J Caldwell  
ANIIDATE 5-11-81

# UT CALIBRATION DATA SHEET

PAGE 1 DATA A101  
Cal Sheet No. A100

SITE LASALLE I ☒ PREOPERATIONAL ☐ INSERVICE  
PROCEDURE No. APUN-5751 REV 2 CALIB BLOCK No. 019103  
DATE 10-23-79 COUPLANT H2O CAL STD TEMP 71°  
EXAMINER [Signature] ASNT LEVEL II  
RECORDER N/A ASNT LEVEL N/A  
EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
TRANSDUCER PACKAGE No. 3 45°-6db  
60°-7db  
AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES          dB  
(SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	⊗	○	○	○	○
✓		2						
	✓	4						
	✓	8						
	✓	16						

FILTER

1	2	3	4
○	○	⊗	○

AMPLITUDE GATE

FLAW GATE LEVEL

119

BACK ECHO LEVEL

439

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. H11851 BEAM ANGLE 0

SIZE 1" Ø FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: [Signature]

REP RATE

351

SWEEP DELAY

300

REVIEWED BY [Signature] SNT-TC-1A LEVEL

w. J. Caldwell ANJI ASB  
3-27-81

# UT CALIBRATION DATA SHEET

Date A103

PAGE 1

Cal Sheet No. A102

SITE LA SALLE I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUN-SX/REV 2 CALIB BLOCK No. 019103  
 DATE 10/26/79 COUPLANT H<sub>2</sub>O CAL STD TEMP 70°  
 EXAMINER Paul Ramsey ASNT LEVEL III  
 RECORDER Flanagan N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. K3E SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 3 45° = -6  
60° = -7  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	⊗	○	○	○	○
✓		2						
	✓	4						
	✓	8						
	✓	16						

FILTER

1	2	3	4
○	○	⊗	○

AMPLITUDE GATE

FLAW GATE LEVEL

253

BACK ECHO LEVEL

397

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. H11851 BEAM ANGLE 0

SIZE 1" Ø FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P Ramsey

REP RATE

504

SWEEP DELAY

328

REVIEWED BY P. Ramsey III

SNT-TC-1A LEVEL

W. J. Caldwell ANII-MSB  
3-27-81

CHANNEL 2 0° ☒ 45° ☐ 60° ☐ OTHER     °  
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N 411851 IIV-2 BEAM ANGLE 0°  
 CABLE NO. 2 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu\text{sec}$	
1/4	1.77	15.1	80
1/2	3.53	30.1	80
3/4	5.297	45.4	80

CALIBRATION CHECKS				
TIME	NEAR AMPLITUDE	$\Delta$ TIME	FAR AMPLITUDE	$\Delta$ TIME
115.05				
1849				
			N/A	
F				

AMPLITUDE LINEARITY CHECK  
(MADE DAILY)

100% FSH _____	% FSH _____	50% FSH _____	% FSH _____
90% " _____	" _____	40% " _____	" _____
80% " _____	40 _____	30% " _____	" _____
70% " _____	_____	20% " _____	" _____
60% " _____	_____	SEE CHANNEL 10	

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

SEE CHANNEL 10

[illegible]

CHANNEL 10 0° ☒ 45° ☐ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N 41151 IIR-2 BEAM ANGLE 0°  
 CABLE NO. 2 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu$ sec	
1/4	1.77	15.0	N/A
1/2	3.53	30.1	{
3/4	5.297	45.3	
BE	7.06	57.2	
			80

CALIBRATION CHECKS				
TIME	NEAR AMPLITUDE	$\Delta$ TIME	FAR AMPLITUDE	$\Delta$ TIME
115:05				
18:49				
		N/A		
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)				
100% FSH	<u>50</u>	% FSH	50% FSH	<u>26</u> % FSH
90% "	<u>46</u>	"	40% "	<u>21</u> "
80% "	<u>40</u>	"	30% "	<u>16</u> "
70% "	<u>35</u>	"	20% "	<u>11</u> "
60% "	<u>30</u>			

CONTROL LINEARITY (MADE DAILY)			
80% FSH	-6db	<u>39</u>	(32-48)
80% "	-12db	<u>18</u>	(16-24)
40% "	+6db	<u>84</u>	(64-96)
20% "	+12db	<u>84</u>	(64-96)

[illegible]



# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A104

SITE LA SALLE I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUN-5751 REV 2 CALIB BLOCK No. 019103  
 DATE 10-27-79 COUPLANT H<sub>2</sub>O CAL STD TEMP 70°  
 EXAMINER P. Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22537F  
 TRANSDUCER PACKAGE No. 3

AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES          dB 45° = -6db 60° = -7db  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	○	○	○	○	○
✓		2	○	○	○	○	○	○
	✓	4	○	○	○	○	○	○
	✓	8	○	○	○	○	○	○
	✓	16	○	○	○	○	○	○

FILTER

1 2 3 4

○ ○ ○ ○

AMPLITUDE GATE

FLAW GATE LEVEL

237

BACK ECHO LEVEL

397

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. 411857 BEAM ANGLE 0°

SIZE 1" φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P. Ramsey

REP RATE

504

SWEEP DELAY

328

REVIEWED BY          SNT-TC-1A LEVEL

W. J. Caldwell ANII- HSB  
3-27-81



CABLE NO. 2 LENGTH 100' TYPE RG-179

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)*
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

SEE CH 10

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	<u>38</u> (32-48)
80% "	-12db	<u>18</u> (16-24)
40% "	+6db	<u>84</u> (64-96)
20% "	+12db	<u>86</u> (64-96)

[illegible]

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A107B

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUN-5751 REV 2 CALIB BLOCK No. 09103 01-91-03  
 DATE 10-28-79 COUPLANT H<sub>2</sub>O CAL STD TEMP 71°  
 EXAMINER R Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 3

AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES 45°-6db, 60°-7db dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	88
✓		1	○	○	○	○	○	○
✓		2	○	○	○	○	○	○
	✓	4	○	○	○	○	○	○
	✓	8	○	○	○	○	○	○
	✓	16	○	○	○	○	○	○

FILTER

1 2 3 4

○ ○ ○ ○

AMPLITUDE GATE

FLAW GATE LEVEL

261

BACK ECHO LEVEL

397

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.06

TRANSDUCER DATA

SERIAL No. H11851 BEAM ANGLE 0°

SIZE 1" φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: R Ramsey

REP RATE

504

SWEEP DELAY

328

REVIEWED BY R Ramsey SNT-TC-1A LEVEL

W. J. Caldwell ANII-MSB  
3-27-81

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	(32-48)
80% "	-12db	(16-24)
40% "	+6db	(64-96)
20% "	+12db	(64-96)

*SEE CH 10*

[illegible]

CHANNEL 4 0° ☐ 45° ☒ 60° ☐ OTHER     °  
TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
TRANSDUCER S/N K20800 IIW-2 BEAM ANGLE 44  
CABLE NO. 4 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu\text{sec}$	
1/4	1.77	39.9	80
1/2	3.53	80.2	S
3/4	5.30	120.1	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	$\Delta$ TIME	FAR AMPLI- TUDE	$\Delta$ TIME
11:38				
15:23				
19:07				
20:57				
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH _____	% FSH _____	50% FSH _____	% FSH _____
90% " _____	" _____	40% " _____	" _____
80% " _____	40 _____	30% " _____	" _____
70% " _____	_____	20% " _____	" _____
60% " _____	_____		
SEE CH 10			

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

SEE CH 10

ANGLE BEAM SPREAD AT 1 X 45° — OR 60° — (MADE ONCE PER CALIBRATED SYSTEM — CALIBRATION STANDARD COMBINATION)										
HOLE DEPTH	TRAILING RAY						LEADING RAY			
	25% DAC		50% DAC		100% DAC		50% DAC		25% DAC	
	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME
1/4										
1/2	SEE CAL SHEET A100									
3/4										

CHANNEL 5 0° ☐ 45° ☐ 60° ☒ OTHER 0  
TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
TRANSDUCER S/N K20805 IIR-2 BEAM ANGLE 59°  
CABLE NO. 5 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu\text{sec}$	
1/4	1.77	57.0	80
1/2	3.53	112.8	5
3/4	5.30	179.2	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TITUDE	$\Delta$ TIME	FAR AMPLI- TITUDE	$\Delta$ TIME
11:38				
15:23				
19:07				
20:57				
F				

AMPLITUDE LINEARITY CHECK  
(MADE DAILY)

100% FSH	_____	3% FSH	_____	50% FSH	_____	% FSH
90% "	_____	"	_____	40% "	_____	"
80% "	40	"	_____	30% "	_____	"
70% "	_____	"	_____	20% "	_____	"
60% "	_____	"	_____			

SEE CH 10

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

SEE CH 10

[illegible]

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. 4110

SITE La Salle ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUN-S751 REV 2 CALIB BLOCK No. 019103  
 DATE 10-30-79 COUPLANT H2O CAL STD TEMP 71°  
 EXAMINER P Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KB1 SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 376

AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

45°-6db 45°-7db  
60°-7db 60°-6db

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	88
✓		1	○	○	○	○	○	○
✓		2	○	○	○	○	○	○
	✓	4	○	○	○	○	○	○
	✓	8	○	○	○	○	○	○
	✓	16	○	○	○	○	○	○

FILTER

1 2 3 4

○ ○ ○ ○

AMPLITUDE GATE

FLAW GATE LEVEL

237

BACK ECHO LEVEL

397

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.06

TRANSDUCER DATA

SERIAL No. H11851 BEAM ANGLE 0°

SIZE 1" φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P Ramsey

REP RATE

538

SWEEP DELAY

328

REVIEWED BY P. S. Lind III SNT-TC-1A LEVEL

W. J. Caldwell ANII- HSB  
3-27-81



# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A112

SITE LaSalle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUA-5751 REV 2 CALIB BLOCK No. 019103  
 DATE 10-31-79 COUPLANT H<sub>2</sub>O CAL STD TEMP 72°  
 EXAMINER Phamsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBT SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 3 & 6

AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

45° - 3 60° - 7db 60° - 6db  
45° - 7db

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	⊗	○	○	○	○
✓		2						
	✓	4						
	✓	8						
	✓	16						

FILTER

1	2	3	4
○	○	⊗	○

AMPLITUDE GATE

FLAW GATE LEVEL

237

BACK ECHO LEVEL

397

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.06

TRANSDUCER DATA

SERIAL No. H11851 BEAM ANGLE 0°

SIZE 1" φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: Phamsey

REP RATE

539

SWEEP DELAY

328

REVIEWED BY C. Lind SNT-TC-1A LEVEL

W. J. Caldwell ANII - HSB  
3-27-81



# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A114

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUV-5751 REV 2 CALIB BLOCK No. 019103  
 DATE 11/1/79 COUPLANT H<sub>2</sub>O CAL STD TEMP 70°  
 EXAMINER Paul Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 326 3 45°-6db 45°-7db  
60°-7db 60°-6db  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	○	○	○	○	○
✓		2	○	○	○	○	○	○
	✓	4	○	○	○	○	○	○
	✓	8	○	○	○	○	○	○
	✓	16	○	○	○	○	○	○

FILTER

1 2 3 4

○ ○ ○ ○

AMPLITUDE GATE

FLAW GATE LEVEL

044

BACK ECHO LEVEL

397

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.06

TRANSDUCER DATA

SERIAL No. 411851 BEAM ANGLE 0°

SIZE 1" Ø FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: Paul Ramsey

REP RATE

539

SWEEP DELAY

328

REVIEWED BY R. Chisholm SNT-TC-1A LEVEL

W. J. Caldwell ANII - HSB  
3-27-81

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A116

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUN-575 REV 2 CALIB BLOCK No. 019103  
 DATE 11-3-79 COUPLANT H2O CAL STD TEMP 69  
 EXAMINER P. Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22581F  
 TRANSDUCER PACKAGE No. 3

AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES 45°-6db, 60°-7db dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	○	○	○	○	○
✓		2	○	○	○	○	○	○
	✓	4	○	○	○	○	○	○
	✓	8	○	○	○	○	○	○
	✓	16	○	○	○	○	○	○

FILTER

1 2 3 4

○ ○ ○ ○

AMPLITUDE GATE

FLAW GATE LEVEL

237

BACK ECHO LEVEL

397

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 2.06

TRANSDUCER DATA

SERIAL No. H11851 BEAM ANGLE 0°

SIZE 1"φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P. Ramsey

REP RATE

540

SWEEP DELAY

328

REVIEWED BY P. Ramsey

SNT-TC-1A LEVEL III

W. J. Caldwell ANII - HSB  
3-27-81

CHANNEL 2 0° ☒ 45° ☐ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N H11851 IIV-2 BEAM ANGLE 0°  
 CABLE NO. 2 LENGTH 100' TYPE RG179

HOLE DEPTH "T"	INCHES	TRANSIT TIME μsec	MAX AMP
1/4	1.77	15.1	80
1/2	3.53	30.2	
3/4	5.30	45.5	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	ΔTIME	FAR AMPLI- TUDE	ΔTIME
11:509				
18:59				
22:39				
0206				
F				

 AMPLITUDE LINEARITY CHECK  
(MADE DAILY)

100% FSH	_____	% FSH	50% FSH	_____	% FSH
90% "	_____	"	40% "	_____	"
80% "	40	"	30% "	_____	"
70% "	_____	"	20% "	_____	"
60% "	_____	"			

SEE CH 10

 CONTROL LINEARITY  
(MADE DAILY)

80% FSH	-6db	_____	(32-48)
80% "	-12db	_____	(16-24)
40% "	+6db	_____	(64-96)
20% "	+12db	_____	(64-96)

SEE CH 10

 ANGLE BEAM SPREAD AT 1 X 45° OR 60°  
(MADE ONCE PER CALIBRATED SYSTEM - CALIBRATION STANDARD COMBINATION)

HOLE DEPTH	TRAILING RAY				LEADING RAY			
	25% DAC		50% DAC		100% DAC		50% DAC	
	W	ΔTIME	W	ΔTIME	W	ΔTIME	W	ΔTIME
1/4								
1/2								
3/4								

CHANNEL 10 0° ☒ 45° ☐ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N H11851 IIV-2 BEAM ANGLE 0°  
 CABLE NO. 2 LENGTH 100 TYPE RG179

HOLE DEPTH "T"	INCHES	TRANSIT TIME μsec	MAX AMP
1/4	1.77	15.1	N/A
1/2	3.53	30.2	
3/4	5.30	45.5	
BE	7.06	60.4	80

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	ΔTIME	FAR AMPLI- TUDE	ΔTIME
11:509				
18:59				
22:39				
0206				
F				

 AMPLITUDE LINEARITY CHECK  
(MADE DAILY)

100% FSH	52	% FSH	50% FSH	26	% FSH
90% "	45	"	40% "	20	"
80% "	40	"	30% "	15	"
70% "	35	"	20% "	10	"
60% "	30	"			

 CONTROL LINEARITY  
(MADE DAILY)

80% FSH	-6db	38	(32-48)
80% "	-12db	18	(16-24)
40% "	+6db	34	(64-96)
20% "	+12db	86	(64-96)

 ANGLE BEAM SPREAD AT 1 X 45° OR 60°  
(MADE ONCE PER CALIBRATED SYSTEM - CALIBRATION STANDARD COMBINATION)

HOLE DEPTH	TRAILING RAY				LEADING RAY			
	25% DAC		50% DAC		100% DAC		50% DAC	
	W	ΔTIME	W	ΔTIME	W	ΔTIME	W	ΔTIME
1/4								
1/2								
3/4								

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A121

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUN-5751 2 CALIB BLOCK No. 019103  
 DATE 11-9-79 COUPLANT H2O CAL STD TEMP 69°  
 EXAMINER P Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22857E  
 TRANSDUCER PACKAGE No. 3

AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB 45° 6db 60° 7db  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	88
<input checked="" type="checkbox"/>		1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>		2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	4	FILTER					
	<input checked="" type="checkbox"/>	8	1	2	3	4		
	<input checked="" type="checkbox"/>	16	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

AMPLITUDE GATE

FLAW GATE LEVEL

239

BACK ECHO LEVEL

342

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.06

TRANSDUCER DATA

SERIAL No. H11951 BEAM ANGLE 0°

SIZE 1" Ø FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P Ramsey

REP RATE

540

SWEEP DELAY

328

REVIEWED BY R. E. King

SNT-TC-1A LEVEL III

W. J. Caldwell ANII - HSB  
3-27-81

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No.

A125

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUR-575/REV 2 CALIB BLOCK No. 019103  
 DATE 11-5-78 COUPLANT H<sub>2</sub>O CAL STD TEMP 70°  
 EXAMINER P Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBT SERIAL No. 22587E  
 TRANSDUCER PACKAGE No. 3

AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES 45°-6db, 60°-7db dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
<u>✓</u>		1	○	⊗	○	○	○	○
<u>✓</u>		2						
	<u>✓</u>	4						
	<u>✓</u>	8						
	<u>✓</u>	16						

FILTER

1	2	3	4
○	○	⊗	○

AMPLITUDE GATE

FLAW GATE LEVEL

234

BACK ECHO LEVEL

397

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.06

TRANSDUCER DATA

SERIAL No. 411851 BEAM ANGLE 0°

SIZE 1"φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P Ramsey

REP RATE

540

SWEEP DELAY

328

REVIEWED BY [Signature]

SNT-TC-1A LEVEL

W. J. Caldwell ANIS-MSB  
3-27-81

CHANNEL 2 0° ☒ 45° ☐ 60° ☐ OTHER \_\_\_\_\_  
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N H11851 IIW-2 BEAM ANGLE 0°  
 CABLE NO. 2 LENGTH 100' TYPE RG179

HOLE DEPTH "T"	INCHES	TRANSIT TIME $\mu$ sec	MAX AMP
1/4	1.77	15.1	8
1/2	3.53	30.2	}
3/4	5.30	45.4	

CALIBRATION CHECKS				
TIME	NEAR AMPLITUDE	$\Delta$ TIME	FAR AMPLITUDE	$\Delta$ TIME
117.07				
20.52				
23.16				
F				

AMPLITUDE LINEARITY CHECK  
(MADE DAILY)

100% FSH	_____	% FSH	50% FSH	_____	% FSH
90% "	_____	"	40% "	_____	"
80% "	40	"	30% "	_____	"
70% "	_____		20% "	_____	"
60% "	_____				

See CH 10

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20%	+12db	_____ (64-96)

*See CH 10*

[illegible]

CHANNEL 10 0° ☒ 45° ☐ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1" FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N H11851 IIW-2 BEAM ANGLE 0°  
 CABLE NO. 2 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu\text{sec}$	
1/4	1.77	15.1	N/A
1/2	3.53	39.2	S
3/4	5.30	45.4	
BE	7.06	60.2	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TITUDE	$\Delta$ TIME	FAR AMPLI- TITUDE	$\Delta$ TIME
117.28				
20.52				
23.16				
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH	<u>52</u>	% FSH	50% FSH <u>26</u> % FSH
90% "	<u>46</u>	"	40% " <u>20</u> "
80% "	<u>41</u>	"	30% " <u>15</u> "
70% "	<u>36</u>	"	20% " <u>10</u> "
60% "	<u>30</u>		

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	<u>38</u> (32-48)
80% "	-12db	<u>18</u> (16-24)
40% "	+6db	<u>82</u> (64-96)
20% "	+12db	<u>86</u> (64-96)

[illegible]



# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. 4128

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUNS-757 REV 2 CALIB BLOCK No. 019103  
 DATE 11-6-79 COUPLANT H2O CAL STD TEMP 70°  
 EXAMINER PRamsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 3

AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES 45°-6db, 60°-7db dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	○	○	○	○	○
✓		2						
	✓	4						
	✓	8						
	✓	16						

FILTER

1	2	3	4
○	○	○	○

AMPLITUDE GATE

FLAW GATE LEVEL

238

BACK ECHO LEVEL

393

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.06

TRANSDUCER DATA

SERIAL No. H11851 BEAM ANGLE 0°

SIZE 1"φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY PRamsey

REP RATE

340

SWEEP DELAY

328

REVIEWED BY R. E. Kirk III

SNT-TC-1A LEVEL

W J Caldwell ANCI- HSB  
 3-27-81

CABLE NO. 2 LENGTH 100' TYPE RG179

CALIBRATION CHECKS				
TIME	NEAR AMPLITUDE	$\Delta$ TIME	FAR AMPLITUDE	$\Delta$ TIME
12031				
2251				
0023				
0303				
F				

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	(32-48)
80% "	-12db	(16-24)
40% "	+6db	(64-96)
20% "	+12db	(64-96)

SEE CH 14

CABLE NO. 2 LENGTH 100' TYPE RG179

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	$\Delta$ TIME	FAR AMPLI- TUDE	$\Delta$ TIME
12031				
2251				
0023				
0303				
F				

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	<u>38</u> (32-48)
80% "	-12db	<u>18</u> (16-24)
40% "	+6db	<u>84</u> (64-96)
20% "	+12db	<u>90</u> (64-96)

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A136

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUV-5751 REV 3 CALIB BLOCK No. 019103  
 DATE 11-16-79 COUPLANT H<sub>2</sub>O CAL STD TEMP 70°  
 EXAMINER P Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587 F  
 TRANSDUCER PACKAGE No. 12#13 45-5 13 45-5  
60-5 60-5  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

dB			FREQUENCY						
OUT	IN		1.0	2.25	5.0	10.0	15	BB	
✓		1	○	○	○	○	○	○	
✓		2							
	✓	4							
	✓	8							
	✓	16							

FILTER			
1	2	3	4
○	○	○	○

AMPLITUDE GATE

FLAW GATE LEVEL

237

BACK ECHO LEVEL

376

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.06

TRANSDUCER DATA D03914

SERIAL No. PRR-11857 BEAM ANGLE 0°

SIZE 1"φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P Ramsey

REP RATE

598

SWEEP DELAY

321

REVIEWED BY P. E. King III SNT-TC-1A LEVEL

W. J. Caldwell ANII- HSB  
3-27-81

CHANNEL 2 0° ☒ 45° ☐ 60° ☐ OTHER ☐

TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHz

TRANSDUCER S/N D03914 IIR-2 BEAM ANGLE 0°

CABLE NO. 2 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu$ sec	
1/4	1.77	15.1	80
1/2	3.53	30.1	S
3/4	5.30	45.4	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	$\Delta$ TIME	FAR AMPLI- TUDE	$\Delta$ TIME
121'00				
03:59				
F				

AMPLITUDE LINEARITY CHECK  
(MADE DAILY)

100% FSH _____	% FSH _____	50% FSH _____	% FSH _____
90% " _____	" _____	40% " _____	" _____
80% " _____	40 _____	30% " _____	" _____
70% " _____	_____	20% " _____	" _____
60% " _____	_____		

SEE CH 10

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

SEE CH 10

ANGLE BEAM SPREAD AT 1 X 45° OR 60° (MADE ONCE PER CALIBRATED SYSTEM - CALIBRATION STANDARD COMBINATION)										
HOLE DEPTH	TRAILING RAY						LEADING RAY			
	25% DAC		50% DAC		100% DAC		50% DAC		25% DAC	
	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME
1/4										
1/2					N/A					
3/4										

CHANNEL 10 0° ☒ 45° ☐ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1"Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N D63914 IIR-2 BEAM ANGLE 0°  
 CABLE NO. 2 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu\text{sec}$	
1/4	1.77	15.1	80
1/2	3.53	30.2	S
3/4	5.30	45.4	
BE	7.06	60.2	80

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TITUDE	$\Delta$ TIME	FAR AMPLI- TITUDE	$\Delta$ TIME
121:00				
03:59				
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)					
100% FSH	<u>50</u>	% FSH	50% FSH	<u>26</u>	% FSH
90% "	<u>45</u>	"	40% "	<u>20</u>	"
80% "	<u>40</u>	"	30% "	<u>15</u>	"
70% "	<u>35</u>	"	20% "	<u>10</u>	"
60% "	<u>30</u>				

CONTROL LINEARITY (MADE DAILY)			
80% FSH	-6db	<u>38</u>	(32-48)
80% "	-12db	<u>18</u>	(16-24)
40% "	+6db	<u>84</u>	(64-96)
20% "	+12db	<u>56</u>	(64-96)

[illegible]

CHANNEL 4 0° ☐ 45° ☒ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1"φ FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N K23981 IIV-2 BEAM ANGLE 43°  
 CABLE NO. 4 LENGTH 100' TYPE RG179

HOLE DEPTH "T"	INCHES	TRANSIT TIME μsec	MAX AMP
1/4	4.77	40.5	80
1/2	3.53	80.9	}
3/4	5.30	120.8	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	Δ TIME	FAR AMPLI- TUDE	Δ TIME
121.00				
03.59				
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH	_____ % FSH	50% FSH	_____ % FSH
90% "	_____ " 40% "	40% "	_____ "
80% "	_____ 40 " 30% "	30% "	_____ "
70% "	_____ 20% "	20% "	_____ "
60% "	<u>SEE CH 10</u>		

CONTROL LINEARITY (MADE DAILY)			
80% FSH	-6db	_____	(32-48)
80% "	-12db	_____	(16-24)
40% "	+6db	_____	(64-96)
20% "	+12db	_____	(64-96)
	<u>SEE CH 10</u>		

ANGLE BEAM SPREAD AT 1 X 45° OR 60° (MADE ONCE PER CALIBRATED SYSTEM - CALIBRATION STANDARD COMBINATION)										
HOLE DEPTH	TRAILING RAY						LEADING RAY			
	25% DAC		50% DAC		100% DAC		50% DAC		25% DAC	
	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME
1/4	1.5	34.9	1.65	37.0	2.0	40.5	2.15	42.5	2.2	42.9
1/2	3.45	76.0	3.55	77.6	3.85	80.9	4.2	84.8	4.3	85.8
3/4	5.2	115.0	5.35	117.3	5.8	120.8	6.1	125.3	6.4	127.8

CHANNEL 5 0° ☐ 45° ☐ 60° ☒ OTHER ☐  
 TRANSDUCER SIZE 1"φ FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N K23982 IIV-2 BEAM ANGLE 59°  
 CABLE NO. 5 LENGTH 100' TYPE RG179

HOLE DEPTH "T"	INCHES	TRANSIT TIME μsec	MAX AMP
1/4	1.77	55.5	80
1/2	3.53	110.6	}
3/4	5.30	167.8	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	Δ TIME	FAR AMPLI- TUDE	Δ TIME
121.00				
03.59				
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH	_____ FSH	50% FSH	_____ % FSH
90% "	_____ " 40% "	40% "	_____ "
80% "	_____ 40 " 30% "	30% "	_____ "
70% "	_____ 20% "	20% "	_____ "
60% "	<u>SEE CH 10</u>		

CONTROL LINEARITY (MADE DAILY)			
80% FSH	-6db	_____	(32-48)
80% "	-12db	_____	(16-24)
40% "	+6db	_____	(64-96)
20% "	+12db	_____	(64-96)
	<u>SEE CH 10</u>		

ANGLE BEAM SPREAD AT 1 X 45° OR 60° (MADE ONCE PER CALIBRATED SYSTEM - CALIBRATION STANDARD COMBINATION)										
HOLE DEPTH	TRAILING RAY						LEADING RAY			
	25% DAC		50% DAC		100% DAC		50% DAC		25% DAC	
	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME
1/4	2.6	47.8	2.9	52.1	3.2	55.5	3.4	58.9	3.5	59.9
1/2	5.7	102.3	5.8	104.9	6.45	110.6	7.0	119.6	7.2	122.7
3/4	8.7	156.2	9.0	160.5	9.5	167.8	10.0	173.2	10.2	175.6



# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A138

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUV-5751 REV 3 CALIB BLOCK No. 019103  
 DATE 11-17- COUPLANT H<sub>2</sub>O CAL STD TEMP 71°  
 EXAMINER Phamsey ASNT LEVEL II  
 RECORDER \_\_\_\_\_ ASNT LEVEL \_\_\_\_\_  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 12/13 12 13  
45-5 45-5  
60-5 60-5  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	10.0	15	BB	
✓		1	○	○	○	○	○	
✓		2	○	○	○	○	○	
	✓	4	○	○	○	○	○	
	✓	8	○	○	○	○	○	
	✓	16	○	○	○	○	○	

FILTER

1 2 3 4

○ ○ ○ ○

AMPLITUDE GATE

FLAW GATE LEVEL

238

BACK ECHO LEVEL

388

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. D03914 BEAM ANGLE 0°

SIZE 1"φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: Phamsey

REP RATE

597

SWEEP DELAY

321

REVIEWED BY Phamsey

SNT-TC-1A LEVEL

W J Caldwell ANCI-753  
3-27-81



CHANNEL 2 0° ☒ 45° ☐ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N D03914 I1W-2 BEAM ANGLE 0°  
 CABLE NO. 2 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu$ SEC	
1/4	1.77	15.1	80
1/2	3.53	30.2	(
3/4	5.30	45.2	)

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	$\Delta$ TIME	FAR AMPLI- TUDE	$\Delta$ TIME
120.17				
00.24				
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH _____	% FSH	50% FSH _____	% FSH
90% " _____	"	40% " _____	"
80% " <u>40</u>	"	30% " _____	"
70% " _____		20% " _____	"
60% " _____			
<i>SEE CH 10</i>			

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	(32-48)
80% "	-12db	(16-24)
40% "	+6db	(64-96)
20% "	+12db	(64-96)

SEE CH 10

ANGLE BEAM SPREAD AT 1 X 45° OR 60° (MADE ONCE PER CALIBRATED SYSTEM - CALIBRATION STANDARD COMBINATION)										
HOLE DEPTH	TRAILING RAY						LEADING RAY			
	25% DAC		50% DAC		100% DAC		50% DAC		25% DAC	
	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME
1/4										
1/2										
3/4			N/A							

CHANNEL 10 0° ☒ 45° ☐ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1" FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N 003914 I1W-2 BEAM ANGLE 10°  
 CABLE NO. 2 LENGTH 100' TYPE RG-179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu\text{sec}$	
1/4	1.77	15.1	N/A
1/2	3.53	30.2	C
3/4	5.30	45.4	
BE	7.06	60.2	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	$\Delta$ TIME	FAR AMPLI- TUDE	$\Delta$ TIME
120'D				
00:24			N/A	
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH	<u>52</u>	% FSH	50% FSH <u>26</u> % FSH
90% "	<u>46</u>	"	40% " <u>21</u> "
80% "	<del>40</del> <u>41</u>	"	30% " <u>16</u> "
70% "	<u>36</u>	"	20% " <u>11</u> "
60% "	<u>3</u>	"	

CONTROL LINEARITY (MADE DAILY)			
80% FSH	-6db	<u>38</u>	(32-48)
80% "	-12db	<u>18</u>	(16-24)
40% "	+6db	<u>82</u>	(64-96)
20% "	+12db	<u>84</u>	(64-96)

[illegible]

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A140

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE

PROCEDURE No. APUV-5751 REV 3 CALIB BLOCK No. 019103

DATE 11-18-79 COUPLANT H<sub>2</sub>O CAL STD TEMP 70°

EXAMINER P Ramsey ASNT LEVEL II

RECORDER N/A ASNT LEVEL N/A

EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F

TRANSDUCER PACKAGE No. 12F13 12 13  
45-5 45-5  
60-5 60-5

AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
(SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	⊗	○	○	○	○
✓		2						
	✓	4						
	✓	8						
	✓	16						

FILTER			
1	2	3	4
○	○	⊗	○

AMPLITUDE GATE

FLAW GATE LEVEL

237

BACK ECHO LEVEL

387

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.06

TRANSDUCER DATA

SERIAL No. D03914 BEAM ANGLE 0°

SIZE 1"φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P Ramsey

REP RATE

597

SWEEP DELAY

321

REVIEWED BY R. G. hoo III

SNT-TC-1A LEVEL

W. J. Caldwell ANEI - HSB  
3-27-81

CHANNEL 4 0° ☐ 45° ☐ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N X23981 IIR-2 BEAM ANGLE 43°  
 CABLE NO. 4 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu$ sec	
1/4	1.77	39.7	80
1/2	3.53	79.9	S
3/4	5.30	120.8	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TITUDE	$\Delta$ TIME	FAR AMPLI- TITUDE	$\Delta$ TIME
11:17:02				
21:25				
23:04				
02:40				
F				

AMPLITUDE LINEARITY CHECK  
(MADE DAILY)

100% FSH _____	% FSH _____	50% FSH _____	% FSH _____
90% " _____	" _____	40% " _____	" _____
80% " _____	40 _____	30% " _____	" _____
70% " _____	_____	20% " _____	" _____
60% " _____	_____	_____	_____

SEE CH 10

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

SEE CH 10

[illegible]

CHANNEL 5 0° ☐ 45° ☐ 60° ☒ OTHER ☐  
 TRANSDUCER SIZE 1"Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N K23983 IHW-2 BEAM ANGLE 59°  
 CABLE NO. 25 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu\text{sec}$	
1/4	1.77	55.0	80
1/2	3.53	110.7	S
3/4	5.30	166.4	

CALIBRATION CHECKS				
TIME	NEAR AMPLITUDE	$\Delta$ TIME	FAR AMPLITUDE	$\Delta$ TIME
11:02				
21:25				
23:04				
02:40				
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH _____	% FSH	50% FSH _____	% FSH
90% " _____	"	40% " _____	"
80% " <u>40</u>	"	30% " _____	"
70% " _____		20% " _____	"
60% " _____			
<u>SEE CH 10</u>			

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

SEE CH 10

[illegible]

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A193 <sup>PRR</sup>

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APU-V-5751 REV 3 CALIB BLOCK No. 019103  
 DATE 11-19-79 COUPLANT H2O CAL STD TEMP 71°  
 EXAMINER PRamsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. K81 SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 12813 <sup>12</sup> 45°-5db <sup>13</sup> 45°-5db  
60°-5db 60°-5db  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	○	○	○	○	○
✓		2						
	✓	4						
	✓	8						
	✓	16						

FILTER			
1	2	3	4
○	○	○	○

AMPLITUDE GATE

FLAW GATE LEVEL

238

BACK ECHO LEVEL

389

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. D03914 BEAM ANGLE 0°

SIZE 1"Ø FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: PRamsey

REP RATE

598

SWEEP DELAY

321

REVIEWED BY W. J. Caldwell SNT-TC-1A LEVEL

W. J. Caldwell ASES - HSB  
3-27-81

CHANNEL 4 0° ☐ 45° ☒ 60° ☐ OTHER 0  
ANSDUCER SIZE 1"Ø FREQUENCY 2.25 MHZ  
TRANSDUCER S/N K23981 IIW-2 BEAM ANGLE 43°  
CABLE NO. 4 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu$ sec	
1/4	1.77	39.9	80
1/2	3.53	79.9	)
3/4	5.30	120.8	

CALIBRATION CHECKS				
TIME	NEAR AMPLITUDE	$\Delta$ TIME	FAR AMPLITUDE	$\Delta$ TIME
12:32				
04:27				
F				

AMPLITUDE LINEARITY CHECK  
(MADE DAILY)

100% FSH	_____	% FSH	50% FSH	_____	% FSH
90% "	_____	"	40% "	_____	"
80% "	<u>40</u>	"	30% "	_____	"
70% "	_____	"	20% "	_____	"
60% "	_____	"			

SEE CH 10

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

SEE CH 10

[illegible]

CHANNEL 5 0° ☐ 45° ☐ 60° ☒ OTHER ☐

TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ

TRANSDUCER S/N K23982 IHW-2 BEAM ANGLE 59°

CABLE NO. 5 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu$ sec	
1/4	1.77	55.8	80
1/2	3.53	111.6	f
3/4	5.30	165.8	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TITUDE	$\Delta$ TIME	FAR AMPLI- TITUDE	$\Delta$ TIME
21.32				
04.27			N/A	
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH _____	% FSH	50% FSH _____	% FSH
90% " _____	"	40% " _____	"
80% " <u>40</u>	"	30% " _____	"
70% " _____		20% " _____	"
60% " _____			
<u>SEE CH 10</u>			

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

*see CH 10*

[illegible]



NNEL 6 0° ☐ 45° ☒ 60° ☐ OTHER 0  
 TRANSDUCER SIZE K23980 FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N K23980 11W-2 BEAM ANGLE 43°  
 CABLE NO. 6 LENGTH 100' TYPE PG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	μsec	
1/4	1.77	40.1	80
1/2	3.53	80.2	S
3/4	5.30	120.3	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	$\Delta$ TIME	FAR AMPLI- TUDE	$\Delta$ TIME
21:32				
04:27				
F				

AMPLITUDE LINEARITY CHECK  
(MADE DAILY)

100% FSH _____	% FSH	50% FSH _____	% FSH
90% " _____	"	40% " _____	"
80% " _____	40	30% " _____	"
70% " _____		20% " _____	"
60% " _____			

*SEE* 10

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20% "	>12db	_____ (64-96)

SEE CH 10

[illegible]

CHANNEL 7 0° ☐ 45° ☐ 60° ☒ OTHER 0  
TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
TRANSDUCER S/N K23979 H/W 2 BEAM ANGLE 59°  
CABLE NO. 7 LENGTH 100' TYPE BG 179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu$ sec	
1/4	1.77	55.2	80
1/2	3.53	111.0	)
3/4	5.30	165.9	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUD	$\Delta$ TIME	FAR AMPLI- TUD	$\Delta$ TIME
21:32				
04:27				
F				

AMPLITUDE LINEARITY CHECK  
(MADE DAILY)

100% FSH	_____	% FSH	50% FSH	_____	% FSH
90% "	_____	"	40% "	_____	"
80% "	<u>40</u>	"	30% "	_____	"
70% "	_____	"	20% "	_____	"
60% "	_____	"			

~~SFF~~ CH 10

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

*SEE CH 10*

[illegible]



## UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A145

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
PROCEDURE No. APUV-5757 REV 3 CALIB BLOCK No. 019103  
DATE 11-29-79 COUPLANT 420 CAL STD TEMP 71°  
EXAMINER P. Ramsey ASNT LEVEL II  
RECORDER N/A ASNT LEVEL N/A  
EQUIPMENT DATA: INSTRUMENT MODEL No. K81 SERIAL No. 22587F  
TRANSDUCER PACKAGE No. 12/13 <sup>12</sup> 45° - 5db <sup>13</sup> 45° - 5db  
AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB 60° - 5db 60° - 5db  
(SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO		
dB		FREQUENCY
OUT	IN	
✓		1
✓		2
	✓	4
	✓	8
	✓	16

FILTER

1.0	2.25	5.0	10.0	15	BB
○	○	○	○	○	○

FILTER

1	2	3	4
○	○	○	○

AMPLITUDE GATE

FLAW GATE LEVEL

239

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7062

TRANSDUCER DATA

SERIAL No. 003914 BEAM ANGLE 0°

SIZE 1"φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P. Ramsey

REP RATE

597

SWEEP DELAY

321

REVIEWED BY P. Ramsey

SNT-TC-1A LEVEL

W. J. Caldwell ANII - HSB  
3-27-81

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A147

SITE LA SALLE T ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUV-S751 REV 3 CALIB BLOCK No. 019103  
 DATE 11-30-80 COUPLANT H<sub>2</sub>O CAL STD TEMP 62°  
 EXAMINER P. RAMSEY ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 12 & 13  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES 12 dB <sup>12</sup> 45°-5db <sup>13</sup> 45°-5db  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION) 60°-5db 60°-5db

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY						
OUT	IN		1.0	2.25	5.0	10.0	15	BB	
✓		1	○	○	○	○	○	○	
✓		2	○	○	○	○	○	○	
	✓	4	○	○	○	○	○	○	
	✓	8	○	○	○	○	○	○	
	✓	16	○	○	○	○	○	○	

FILTER

1 2 3 4

○ ○ ○ ○

AMPLITUDE GATE

FLAW GATE LEVEL

239

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. 203914 BEAM ANGLE 0°

SIZE 1" Ø FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P. RAMSEY

REP RATE

597

SWEEP DELAY

321

REVIEWED BY P. Ramsey SNT-TC-1A LEVEL III

w-g. Caldwell ASEE- HSB  
3-27-81

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A149

SITE La Salle I ☒ PRE-OPERATIONAL ☐ IN-SERVICE  
 PROCEDURE No. APUJ-5751 REV 3 CALIB BLOCK No. 019103  
 DATE 12-1-79 COUPLANT H2O CAL STD TEMP 61°  
 EXAMINER P. Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA INSTRUMENT MODEL No. KA1 SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 12413

AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

<sup>12</sup>  
 45° - 5db  
 60° - 5db  
<sup>13</sup>  
 45° - 5db  
 60° - 5db

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	88
✓		1	○	⊗	○	○	○	○
✓		2						
	✓	4						
	✓	8						
	✓	16						

FILTER

1 2 3 4

○ ○ ⊗ ○

AMPLITUDE GATE

FLAW GATE LEVEL

239

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
 FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. D03914 BEAM ANGLE 0°

SIZE 1"φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY P. Ramsey

REP RATE

594

SWEEP DELAY

321

REVIEWED BY P. Ramsey

SNT-TC-1A LEVEL

W. J. Caldwell ANEI - HSB  
 3-30-81

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A151

SITE LA SALLE I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUV-S751 REV 3 CALIB BLOCK No. 019103  
 DATE 12-2-79 COUPLANT H<sub>2</sub>O CAL STD TEMP 61°  
 EXAMINER P. RAMSEY ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 12 & 13

AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

12 13  
 45° - 5db 45° - 5db  
 60° - 5db 60° - 5db

## INSTRUMENT SETTINGS

RF/VIDEO

dB		FREQUENCY	
OUT	IN		
✓		1	1.0 2.25 5.0 10.0 15 88
✓		2	○ ○ ○ ○ ○ ○
	✓	4	FILTER
	✓	8	1 2 3 4
	✓	16	○ ○ ○ ○

AMPLITUDE GATE

FLAW GATE LEVEL

239

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. D03914 BEAM ANGLE 0°

SIZE 1" Ø FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P. Ramsey

REP RATE

597

SWEEP DELAY

321

REVIEWED BY P. Ramsey SNT-TC-1A LEVEL

w. j. Calhoun ANII- MSB  
 3-30-81

CHANNEL 6 0° ☐ 45° ☒ 60° ☐ OTHER ☐

TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ

TRANSDUCER S/N K23980 HW-2 BEAM ANGLE 6.3°

CABLE NO. 6 LENGTH 100' TYPE 2G79

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu$ sec	
1/4	1.77	39.8	80
1/2	3.53	79.7	)
3/4	5.30	118.7	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUD E	$\Delta$ TIME	FAR AMPLI- TUD E	$\Delta$ TIME
1/853				
03:52				
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH _____	% FSH	50% FSH _____	% FSH
90% " _____	"	40% " _____	"
80% " <u>40</u>	"	30% " _____	"
70% " _____		20% " _____	"
60% " _____			
<u>SEE CH. 10</u>			

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

SEE CH. 10

[illegible]

CHANNEL 7 0° ☐ 45° ☐ 60° ☒ OTHER ☐  
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N K 23979 IHW-2 BEAM ANGLE 59°  
 CABLE NO. 7 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu\text{sec}$	
1/4	1.77	55.8	80
1/2	3.53	110.2	}
3/4	5.30	164.6	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TITUDE	$\Delta$ TIME	FAR AMPLI- TITUDE	$\Delta$ TIME
1 18.53				
03.54				
			N/A	
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH _____	% FSH	50% FSH _____	% FSH
90% " _____	"	40% " _____	"
80% " _____	40	30% " _____	"
70% " _____		20% " _____	"
60% " _____			
SEE CH. 10			

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

*PRE CH. 10*

[illegible]

# ST CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A153

SITE LA SALLE I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUV-S751 REV 3 CALIB BLOCK No. 019103  
 DATE 12-3-79 COUPLANT H2O CAL STD TEMP 62°  
 EXAMINER Paul Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 12 & 13 <sup>12</sup> 45°-5db <sup>13</sup> 45°-5db  
60°-5db 60°-5db  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB		
OUT	IN	
✓		1
✓		2
	✓	4
	✓	8
	✓	16

FREQUENCY

1.0 2.25 5.0 10.0 15 BB

○ ○ ☒ ○ ○ ○ ○

FILTER

1 2 3 4

○ ○ ☒ ○

AMPLITUDE GATE

FLAW GATE LEVEL

238

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. 203714 BEAM ANGLE 0°

SIZE 1" Ø FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: Paul Ramsey

REP RATE

597

SWEEP DELAY

321

REVIEWED BY R. S. Hill SNT-TC-1A LEVEL

w. J. Caldwell ANII- HSB  
3-30-81



CHANNEL 2 0° ☒ 45° ☐ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N D03914 IHW-2 BEAM ANGLE 0°  
 CABLE NO. 2 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT	MAX
"T"	INCHES	TIME μsec	AMP
1/4	1.77	5.2	80
1/2	3.5	30.3	5
3/4	5.30	45.5	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	$\Delta$ TIME	FAR AMPLI- TUDE	$\Delta$ TIME
123;20				
14:43				
			N/A	
F				

AMPLITUDE LINEARITY CHECK  
(MADE DAILY)

100% FSH _____	% FSH _____	50% FSH _____	% FSH _____
90% " _____	" _____	40% " _____	" _____
80% " _____	40 _____	30% " _____	" _____
70% " _____		20% " _____	" _____
60% " _____			

SEE CH. 10

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)†
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

SEE CH. 10

ANGLE BEAM SPREAD AT 1 X 45° OR 60° (MADE ONCE PER CALIBRATED SYSTEM - CALIBRATION STANDARD COMBINATION)										
HOLE DEPTH	TRAILING RAY					LEADING RAY				
	25% DAC		50% DAC		100% DAC		50% DAC		25% DAC	
	W	ΔTIME	W	ΔTIME	W	ΔTIME	W	ΔTIME	W	ΔTIME
1/4										
1/2					N/A					
3/4										

CHANNEL 10 0° ☒ 45° ☐ 60° ☐ OTHER 0  
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N 203914 IIW-2 BEAM ANGLE 0°  
 CABLE NO. 2 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu\text{sec}$	
1/4	1.77	15.1	N/A
1/2	3.53	30.2	C
3/4	5.30	45.4	
B.E.	7.06	60.2	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TITUDE	$\Delta$ TIME	FAR AMPLI- TITUDE	$\Delta$ TIME
23:20				
14:43				
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH	<u>52</u>	% FSH	50% FSH <u>26</u> % FSH
90% "	<u>46</u>	"	40% " <u>20</u> "
80% "	<u>40</u>	"	30% " <u>16</u> "
70% "	<u>36</u>	"	20% " <u>10</u> "
60% "	<u>30</u>		

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	<u>38</u> (32-48)
80% "	-12db	<u>18</u> (16-24)
40% "	+6db	<u>82</u> (64-96)
20% "	+12db	<u>85</u> (64-96)

[illegible]

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A155

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUN 3751 REV 3 CALIB BLOCK No. 019103  
 DATE 12-4-79 COUPLANT H<sub>2</sub>O CAL STD TEMP 64°  
 EXAMINER P Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587E  
 TRANSDUCER PACKAGE No. 11 45-5db  
60-5db  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	○	○	○	○	○
✓		2	○	○	○	○	○	○
	✓	4	○	○	○	○	○	○
	✓	8	○	○	○	○	○	○
	✓	16	○	○	○	○	○	○

FILTER

1	2	3	4
○	○	○	○

AMPLITUDE GATE

FLAW GATE LEVEL

239

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. 1411851 BEAM ANGLE 0°

SIZE 1" φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P Ramsey

REP RATE

597

SWEEP DELAY

321

REVIEWED BY P. E. [Signature]

SNT-TC-1A LEVEL

W. J. Caldwell ANII- HSB  
3-30-81

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A157

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUV-5751 REV 3 CALIB BLOCK No. 019103  
 DATE 12/4/79 COUPLANT H<sub>2</sub>O CAL STD TEMP 61°  
 EXAMINER Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBT SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 12#13  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES 12#13 dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB		
OUT	IN	
✓		1
✓		2
	✓	4
	✓	8
	✓	16

FREQUENCY

1.0 2.25 5.0 10.0 15 88

☐ ☒ ☐ ☐ ☐ ☐

FILTER

1 2 3 4

☐ ☐ ☒ ☐

AMPLITUDE GATE

FLAW GATE LEVEL

240

BACK ECHO LEVEL

374

EQUIP DATA -- ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. H11851 BEAM ANGLE 0°

SIZE 1" φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: Ramsey

REP RATE

592

SWEEP DELAY

321

REVIEWED BY [Signature] SNT-TC-1A LEVEL II

W. J. Caldwell ANII-HSB  
3-30-81

CHANNEL 2 0° ☒ 45° ☐ 60° ☐ OTHER 0  
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N 003914 IIW-2 BEAM ANGLE 0°  
 CABLE NO. 2 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu\text{sec}$	
1/4	1.77	15.3	80
1/2	3.53	30.3	f
3/4	5.30	45.6	

CALIBRATION CHECKS				
TIME	NEAR AMPLITUDE	$\Delta$ TIME	FAR AMPLITUDE	$\Delta$ TIME
122.35				
03.57				
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH	_____	% FSH	_____
90% "	_____	40% "	_____
80%	40	30% "	_____
70% "	_____	20% "	_____
60% "	_____	See CH 10	

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)*
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

SEE CH 10

ANGLE BEAM SPREAD AT 1 X 45° OR 60° (MADE ONCE PER CALIBRATED SYSTEM - CALIBRATION STANDARD COMBINATION)										
HOLE DEPTH	TRAILING RAY						LEADING RAY			
	25% DAC		50% DAC		100% DAC		50% DAC		25% DAC	
	W	$\Delta$ TIME	W	$\Delta$ TIME	W	$\Delta$ TIME	W	$\Delta$ TIME	W	$\Delta$ TIME
1/4										
1/2										
3/4					N/A					

CHANNEL 10 0° ☒ 45° ☐ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N 003914 IIR-2 BEAM ANGLE 0  
 CABLE NO. 2 LENGTH 100' TYPE RG-179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu\text{sec}$	
1/4	1.77	15.1	N/A
1/2	3.53	30.2	C
3/4	5.30	45.4	
BE	7.06	59.5	80

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	$\Delta$ TIME	FAR AMPLI- TUDE	$\Delta$ TIME
122:35				
03:57				
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH	<u>52</u>	% FSH	50% FSH <u>26</u> % FSH
90% "	<u>46</u>	"	40% " <u>21</u> "
80% "	<u>41</u>	"	30% " <u>16</u> "
70% "	<u>36</u>	"	20% " <u>10</u> "
60% "	<u>30</u>		

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	<u>38</u> (32-48)
80% "	-12db	<u>18</u> (16-24)
40% "	+6db	<u>82</u> (64-96)
20% "	+12db	<u>85</u> (64-96)

ANGLE BEAM SPREAD AT 1 X 45° — OR 60° — (MADE ONCE PER CALIBRATED SYSTEM – CALIBRATION STANDARD COMBINATION)										
HOLE DEPTH	TRAILING RAY						LEADING RAY			
	25% DAC		50% DAC		100% DAC		50% DAC		25% DAC	
	W	$\Delta$ TIME	W	$\Delta$ TIME	W	$\Delta$ TIME	W	$\Delta$ TIME	W	$\Delta$ TIME
1/4										
1/2										
3/4					N/A					

CHANNEL 4  $0^\circ$  ☐  $45^\circ$  ☒  $60^\circ$  ☐ OTHER  $0^\circ$   
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHz  
 TRANSDUCER S/N K23981 IIW 2 BEAM ANGLE 43°  
 CABLE NO. 4 LENGTH 100' TYPE RG179

HOLE DEPTH "T"	INCHES	TRANSIT TIME µsec	MAX AMP
1/4	1.77	39.7	
1/2	3.53	79.4	
3/4	5.30	119.3	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	ΔTIME	FAR AMPLI- TUDE	ΔTIME
122:35				
03:57				
		N/A		
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH	_____ % FSH	50% FSH	_____ % FSH
90% "	_____ " "	40% "	_____ " "
80% "	_____ 40	30% "	_____ " "
70% "	_____	20% "	_____ " "
60% "	see CH 10		

CONTROL LINEARITY (MADE DAILY)			
80% FSH	-6db	_____	(32-48)
80% "	-12db	_____	(16-24)
40% "	+6db	_____	(64-96)
20% "	+12db	_____	(64-96)
	see CH 10		

ANGLE BEAM SPREAD AT $1 \times 45^\circ$ OR $60^\circ$ (MADE ONCE PER CALIBRATED SYSTEM - CALIBRATION STANDARD COMBINATION)										
HOLE DEPTH	TRAILING RAY					LEADING RAY				
	25% DAC		50% DAC		100% DAC		50% DAC		25% DAC	
	W	ΔTIME	W	ΔTIME	W	ΔTIME	W	ΔTIME	W	ΔTIME
1/4										
1/2										
3/4										

see Cal Sheet A136

CHANNEL 5  $0^\circ$  ☐  $45^\circ$  ☐  $60^\circ$  ☒ OTHER  $0^\circ$   
 TRANSDUCER SIZE 1" Ø FREQUENCY 2.25 MHz  
 TRANSDUCER S/N K23982 IIW 2 BEAM ANGLE 59°  
 CABLE NO. 5 LENGTH 100' TYPE RG179

HOLE DEPTH "T"	INCHES	TRANSIT TIME µsec	MAX AMP
1/4	6.77	55.1	80
1/2	3.53	109.7	
3/4	5.30	164.8	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	ΔTIME	FAR AMPLI- TUDE	ΔTIME
122:35				
03:57				
		N/A		
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH	_____ % FSH	50% FSH	_____ % FSH
90% "	_____ " "	40% "	_____ " "
80% "	_____ 40	30% "	_____ " "
70% "	_____	20% "	_____ " "
60% "	see CH 10		

CONTROL LINEARITY (MADE DAILY)			
80% FSH	-6db	_____	(32-48)
80% "	-12db	_____	(16-24)
40% "	+6db	_____	(64-96)
20% "	+12db	_____	(64-96)
	see CH 10		

ANGLE BEAM SPREAD AT $1 \times 45^\circ$ OR $60^\circ$ (MADE ONCE PER CALIBRATED SYSTEM - CALIBRATION STANDARD COMBINATION)										
HOLE DEPTH	TRAILING RAY					LEADING RAY				
	25% DAC		50% DAC		100% DAC		50% DAC		25% DAC	
	W	ΔTIME	W	ΔTIME	W	ΔTIME	W	ΔTIME	W	ΔTIME
1/4										
1/2										
3/4										

see Cal Sheet A136



## UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A162

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
PROCEDURE No. APUV-5751 REV 3 CALIB BLOCK No. 019103  
DATE 12-8-79 COUPLANT H<sub>2</sub>O CAL STD TEMP 58°  
EXAMINER P Ramsey ASNT LEVEL II  
RECORDER N/A ASNT LEVEL N/A  
EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
TRANSDUCER PACKAGE No. 12 & 13 12 13 PAR  
45°-5db 45°-5db  
60°-5db 60°-5db  
AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
(SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	5	BB
✓		1	○	⊗	○	○	○	○
✓		2						
	✓	4						
	✓	8						
	✓	16						

FILTER

1	2	3	4
○	○	⊗	○

AMPLITUDE GATE

FLAW GATE LEVEL

234

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7062

TRANSDUCER DATA

SERIAL No. 003914 BEAM ANGLE 0°

SIZE 1"φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P Ramsey

REP RATE

611

SWEEP DELAY

321

REVIEWED BY P Ramsey III

SNT-TC-1A LEVEL

W. J. Caldwell ANII - HSB  
3-30-81



# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A165

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUV-5751 REV 3 CALIB BLOCK No. 019103  
 DATE 12-9-79 COUPLANT H2O CAL STD TEMP 53°  
 EXAMINER PRamsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 12 & 13 12 13  
45°-5db 45°-5db  
60°-5db 60°-5db  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	⊗	○	○	○	○
✓		2						
	✓	4						
	✓	8						
	✓	16						

FILTER

1	2	3	4
○	○	⊗	○

AMPLITUDE GATE

FLAW GATE LEVEL

238

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. D03914 BEAM ANGLE 0°

SIZE 1"φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: PRamsey

REP RATE

611

SWEEP DELAY

321

REVIEWED BY W. J. Caldwell SNT-TC-1A LEVEL

W. J. Caldwell ANII - HSB  
3-30-81

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A169

SITE L'a Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APU✓-5751 REV 3 CALIB BLOCK No. 019103  
 DATE 12-10-79 COUPLANT H<sub>2</sub>O CAL STD TEMP 58°  
 EXAMINER Paul Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 12 8 13 12 13  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES 45°-5db 45-5db  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION) 60°-5db 60-5db

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	✓	○	○	○	○
✓		2						
	✓	4						
	✓	8			✓			
	✓	16						

FILTER

1 2 3 4

○ ○ ○ ○

AMPLITUDE GATE

FLAW GATE LEVEL

237

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. D03914 BEAM ANGLE 0°

SIZE 1" φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P. Ramsey

REP RATE

612

SWEEP DELAY

321

REVIEWED BY P. Ramsey SNT-TC-1A LEVEL

w. J. Caldwell ANII - HSB  
3-30-81

CONTROL LINEARITY (MADE DAILY)		
30% FSH	-6db _____	(32-48)
80% "	-12db _____	(16-24)
40% "	+6db _____	(64-96)
20% "	+12db _____	(64-96)

SEE CH. 10

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	<u>39</u> (32-48)
80% "	-12db	<u>TM 20</u> (16-24)
40% "	+6db	<u>82</u> (64-96)
20% "	+12db	<u>82</u> (64-96)

ANGLE BEAM SPREAD AT 1 X 45° — OR 60° — (MADE ONCE PER CALIBRATED SYSTEM – CALIBRATION STANDARD COMBINATION)										
HOLE DEPTH	TRAILING RAY						LEADING RAY			
	25% DAC		50% DAC		100% DAC		50% DAC		25% DAC	
	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME
1/4										
1/2					N/A					
3/4										

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A172

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUV-5751 REV 3 CALIB BLOCK No. 019103  
 DATE 12-11-79 COUPLANT H<sub>2</sub>O CAL STD TEMP 61°  
 EXAMINER P. Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 12F 13 <sup>12</sup> 45-5db <sup>13</sup> 45-5db  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ db 60-5db 60-5db  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB		
OUT	IN	
✓		1
✓		2
	✓	4
	✓	8
	✓	16

FREQUENCY

1.0 2.25 5.0 10.0 15 BB

○ ○ ○ ○ ○ ○

FILTER

1 2 3 4

○ ○ ○ ○

AMPLITUDE GATE

FLAW GATE LEVEL

237

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 7.062

TRANSDUCER DATA

SERIAL No. D03914 BEAM ANGLE 0°

SIZE 1"φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P. Ramsey

REP RATE

612

SWEEP DELAY

321

REVIEWED BY P. Ramsey SNT-TC-1A LEVEL

W. J. Caldwell AHSI-HSB  
3-30-81





CHANNEL 6 ☐ 0° ☒ 45° ☐ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1"Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N K23980 IIV-2 BEAM ANGLE 43°  
 CABLE NO. 6 LENGTH 100' TYPE RG179

HOLE DEPTH "T"	INCHES	TRANSIT TIME μsec	MAX AMP
1/4	1.77	40.7	80
1/2	3.53	80.3	
3/4	5.30	120.3	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	Δ TIME	FAR AMPLI- TUDE	Δ TIME
120:21				
01:57				
05:42				
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH	_____	% FSH	50% FSH _____ % FSH
90% "	_____	"	40% " _____ "
80% "	40	"	30% " _____ "
70% "	_____	"	20% " _____ "
60% "	_____	"	_____

SEE CH 10

CONTROL LINEARITY (MADE DAILY)			
80% FSH	-6db	_____	(32-48)
80% "	-12db	_____	(16-24)
40% "	+6db	_____	(64-96)
20% "	+12db	_____	(64-96)

SEE CH 10

ANGLE BEAM SPREAD AT 1 X 45° OR 60° (MADE ONCE PER CALIBRATED SYSTEM - CALIBRATION STANDARD COMBINATION)										
HOLE DEPTH	TRAILING RAY						LEADING RAY			
	25% DAC		50% DAC		100% DAC		50% DAC		25% DAC	
	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME
1/4										
1/2										
3/4										

SEE CAL SHEET A136

CHANNEL 6 7<sup>PER</sup> ☐ 0° ☐ 45° ☒ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1"Ø FREQUENCY 2.25 MHZ  
 TRANSDUCER S/N K23979 IIV-2 BEAM ANGLE 59°  
 CABLE NO. 6 7<sup>PER</sup> LENGTH 100' TYPE RG179

HOLE DEPTH "T"	INCHES	TRANSIT TIME μsec	MAX AMP
1/4	1.77	54.2	80
1/2	3.53	108.3	
3/4	5.30	162.6	

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	Δ TIME	FAR AMPLI- TUDE	Δ TIME
120:21				
01:57				
05:42				
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH	_____	% FSH	50% FSH _____ % FSH
90% "	_____	"	40% " _____ "
80% "	40	"	30% " _____ "
70% "	_____	"	20% " _____ "
60% "	_____	"	_____

SEE CH 10

CONTROL LINEARITY (MADE DAILY)			
80% FSH	-6db	_____	(32-48)
80% "	-12db	_____	(16-24)
40% "	+6db	_____	(64-96)
20% "	+12db	_____	(64-96)

SEE CH 10

ANGLE BEAM SPREAD AT 1 X 45° OR 60° (MADE ONCE PER CALIBRATED SYSTEM - CALIBRATION STANDARD COMBINATION)										
HOLE DEPTH	TRAILING RAY						LEADING RAY			
	25% DAC		50% DAC		100% DAC		50% DAC		25% DAC	
	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME	W	Δ TIME
1/4										
1/2										
3/4										

SEE CAL SHEET A136



## UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A176

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
PROCEDURE No. APUN-5751 REV 3 CALIB BLOCK No. 019207  
DATE 12-12-79 COUPLANT H<sub>2</sub>O CAL STD TEMP 63°  
EXAMINER P Ramsey ASNT LEVEL II  
RECORDER N/A ASNT LEVEL N/A  
EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587 F  
TRANSDUCER PACKAGE No. 11  
AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES 45° - 5db  
(SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION) 60° - 5db

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	⊗	○	○	○	○
✓		2						
	✓	4						
	✓	8						
	✓	16						

FILTER

1	2	3	4
○	○	⊗	○

AMPLITUDE GATE

FLAW GATE LEVEL

237

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 8.06

TRANSDUCER DATA

SERIAL No. H11851 BEAM ANGLE 0°

SIZE 1" Ø FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: P Ramsey

REP RATE

611

SWEEP DELAY

321

REVIEWED BY R.E. Lind III

SNT-TC-1A LEVEL

W. J. Caldwell ANII- HSB  
3-30-81

CHANNEL 2 0° ☒ 45° ☐ 60° ☐ OTHER ☐

TRANSDUCER SIZE 1"  $\phi$  FREQUENCY 2.25 MHZ

TRANSDUCER S/N H11851 IIV-2 BEAM ANGLE 0°

CABLE NO. 2 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu\text{sec}$	
1/4	2.11	18.2	80
1/2	4.22	36.5	f
3/4	6.33	54.3	

CALIBRATION CHECKS				
TIME	NEAR AMPLITUDE	$\Delta$ TIME	FAR AMPLITUDE	$\Delta$ TIME
23:09				
03:05				
		N/A		
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)			
100% FSH _____	% FSH	50% FSH _____	% FSH
90% " _____	"	40% " _____	"
80% " <u>40</u>	"	30% " _____	"
70% " _____		20% " _____	"
60% " _____			
<b>SEE CH 10</b>			

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db _____	(32-48)
80% "	-12db _____	(16-24)
40% "	+6db _____	(64-96)
20% "	+12db _____	(64-96)

**SEE CH 10**

[illegible]

CHANNEL 10 0° ☒ 45° ☐ 60° ☐ OTHER ☐  
 TRANSDUCER SIZE 1" Ø FREQUENCY 1.25 MHZ  
 TRANSDUCER S/N H11851 IIR-2 BEAM ANGLE 0  
 CABLE NO. 2 LENGTH 100' TYPE RG179

HOLE DEPTH		TRANSIT TIME	MAX AMP
"T"	INCHES	$\mu\text{sec}$	
1/4	2.11	18.2	N/A
1/2	4.22	36.4	C
3/4	6.33	54.5	24
BE	8.06	72.0	80

CALIBRATION CHECKS				
TIME	NEAR AMPLI- TUDE	$\Delta$ TIME	FAR AMPLI- TUDE	$\Delta$ TIME
23:09				
03:05				
			N/A	
F				

AMPLITUDE LINEARITY CHECK (MADE DAILY)				
100% FSH	<u>52</u>	% FSH	50% FSH	<u>26</u> % FSH
50% "	<u>46</u>	"	40% "	<u>20</u> "
80% "	<u>40</u>	"	30% "	<u>15</u> "
70% "	<u>35</u>		20% "	<u>10</u> "
60% "	<u>30</u>			

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	<u>38</u> (32-48)
80% "	-12db	<u>18</u> (16-24)
40% "	+6db	<u>84</u> (64-96)
20% "	+12db	<u>84</u> (64-96)

[illegible]

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A178

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUR-5751 REV 3 CALIB BLOCK No. 019207  
 DATE 12-13-79 COUPLANT H2O CAL STD TEMP 65°  
 EXAMINER Ramsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. HBI SERIAL No. 22588F  
 TRANSDUCER PACKAGE No. 11 45° - 5db PRC  
60° - 5db  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	○	○	○	○	○
✓		2						
	✓	4						
	✓	8						
	✓	16						

FILTER			
1	2	3	4
○	○	○	○

AMPLITUDE GATE

FLAW GATE LEVEL

239

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 8.06

TRANSDUCER DATA

SERIAL No. D03914 BEAM ANGLE 0°

SIZE 1"φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: Ramsey

REP RATE

601

SWEEP DELAY

321

REVIEWED BY R. E. Lind SNT-TC-1A LEVEL

W. J. Caldwell ANSI-3-30-61  
H5B

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No.

PRR  
A180 A181

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. APUN-5751 REV 3 CALIB BLOCK No. 019207  
 DATE 12-14-79 COUPLANT H2O CAL STD TEMP 65°  
 EXAMINER Phamsey ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 11 45°-5db  
60°-5db  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB		
OUT	IN	
✓		1
✓		2
	✓	4
	✓	8
	✓	16

FREQUENCY

1.0 2.25 5.0 10.0 15 BB

○ ● ○ ○ ○ ○

FILTER

1 2 3 4

○ ○ ● ○

AMPLITUDE GATE

FLAW GATE LEVEL

239

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 8106

TRANSDUCER DATA

SERIAL No. H11851 BEAM ANGLE 0°

SIZE 1"Ø FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: Phamsey

REP RATE

607

SWEEP DELAY

321

REVIEWED BY R. S. Lind

SNT-TC-1A LEVEL

W. J. Caldwell AN-II- HSB  
3-30-81

## UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. H186

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
PROCEDURE No. APUN-5751 REV 3 CALIB BLOCK No. 019207  
DATE 12-15-79 COUPLANT H<sub>2</sub>O CAL STD TEMP 63°  
EXAMINER Phamsey ASNT LEVEL II  
RECORDER N/A ASNT LEVEL N/A  
EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
TRANSDUCER PACKAGE No. 11 45°-5db  
60°-5db

AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
(SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB

OUT	IN	
✓		1
✓		2
	✓	4
	✓	8
	✓	16

FREQUENCY

1.0 2.25 5.0 10.0 15 BB

○ ○ ● ○ ○ ○ ○

FILTER

1 2 3 4

○ ○ ● ○

AMPLITUDE GATE

FLAW GATE LEVEL

238

BACK ECHO LEVEL

373

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 8.06

TRANSDUCER DATA

SERIAL No. H11851 BEAM ANGLE 0°  
SIZE 1"Ø FREQ 2.25  
SHOE No. N/A CABLE No. 2  
CHECK MADE BY: Phamsey

REP RATE

607

SWEEP DELAY

321

REVIEWED BY C. E. Kirk III  
SNT-TC-1A LEVEL

W. J. Caldwell ANIS-1452  
3-30-81

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A188

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
 PROCEDURE No. ADUN-5751 REV 3 CALIB BLOCK No. 019207  
 DATE 12-17-79 COUPLANT H<sub>2</sub>O CAL STD TEMP 63°  
 EXAMINER Ramsley ASNT LEVEL II  
 RECORDER N/A ASNT LEVEL N/A  
 EQUIPMENT DATA: INSTRUMENT MODEL No. KBI SERIAL No. 22587F  
 TRANSDUCER PACKAGE No. 11 45°-5db  
60°-5db  
 AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
 (SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	○	○	○	○	○
✓		2	○	○	○	○	○	○
	✓	4	○	○	○	○	○	○
	✓	8	○	○	○	○	○	○
	✓	16	○	○	○	○	○	○

FILTER

1 2 3 4

○ ○ ○ ○

AMPLITUDE GATE

FLAW GATE LEVEL

237

BACK ECHO LEVEL

374

EQUIPMENT DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 8.06

TRANSDUCER DATA

SERIAL No. H11851 BEAM ANGLE 0°

SIZE 1"φ FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: Ramsley

REP RATE

607

SWEEP DELAY

321

REVIEWED BY K. S. Kirk III

SNT-TC-1A LEVEL

W. J. Caldwell ANIS- HSB  
3-30-81



## INSTRUMENT SETTINGS

CHANNEL	0	1	2	3	4	5	6	7	8	9	10	11
FINE GAIN			<u>147</u>		<u>158</u>	<u>085</u>					<u>132</u>	
TIME GATE DELAY			<u>108</u>		<u>403</u>	<u>215</u>					<u>518</u>	
FLAW GATE	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF
DELAY			<u>017</u>		<u>085</u>	<u>050</u>					<u>287</u>	
RANGE			<u>065</u>		<u>238</u>	<u>970</u>					<u>046</u>	
BACK ECHO GATE	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF
DELAY											<u>171</u>	
RANGE											<u>444</u>	
TIME CORRECT GAIN	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF
START 1			<u>848</u>		<u>996</u>	<u>982</u>						
START 2			<u>699</u>		<u>920</u>	<u>950</u>						
START 3			<u>706</u>		<u>874</u>	<u>916</u>						
SLOPE 1			<u>733</u>		<u>713</u>	<u>708</u>						
SLOPE 2			<u>693</u>		<u>733</u>	<u>734</u>						
SLOPE 3			<u>824</u>		<u>718</u>	<u>924</u>						

TYPE RG179

CONTROL LINEARITY (MADE DAILY)		
80% FSH	-6db	_____ (32-48)
80% "	-12db	_____ (16-24)
40% "	+6db	_____ (64-96)
20% "	+12db	_____ (64-96)

*SEE CH 10*

CONTROL LINEARITY (MADE DAILY)		
30% FSH	-6db	<u>38</u> (32-48)
80% "	-12db	<u>18</u> (16-24)
40% "	+6db	<u>82</u> (64-96)
20% "	+12db	<u>86</u> (64-96)

[illegible]

# UT CALIBRATION DATA SHEET

PAGE 1

Cal Sheet No. A191  
DATA: A192

SITE La Salle I ☒ PREOPERATIONAL ☐ INSERVICE  
PROCEDURE No. NDUN-587-REV 3 CALIB BLOCK No. 019207  
DATE 12-18-99 COUPLANT H2O CAL STD TEMP 63  
EXAMINER Ramsey ASNT LEVEL II  
RECORDER N/A ASNT LEVEL N/A  
EQUIPMENT DATA: INSTRUMENT MODEL No. NBE SERIAL No. 22587F  
TRANSDUCER PACKAGE No. 11 45°-540  
60°-546  
AMPLITUDE DIFFERENCE BETWEEN 3/4T AND 5/4T HOLES \_\_\_\_\_ dB  
(SHEAR WAVE ONLY, REQUIRED ONCE PER CALIBRATED SYSTEM/BLOCK COMBINATION)

## INSTRUMENT SETTINGS

RF/VIDEO

dB			FREQUENCY					
OUT	IN		1.0	2.25	5.0	10.0	15	BB
✓		1	○	⊗	○	○	○	○
✓		2						
	✓	4						
	✓	8						
	✓	16						

FILTER

1	2	3	4
○	○	⊗	○

AMPLITUDE GATE

FLAW GATE LEVEL

149

BACK ECHO LEVEL

374

EQUIP DATA - ANGLE BEAM  
FOR LINEARITY CHECKS

CODE BLOCK T 8.060

TRANSDUCER DATA

SERIAL No. 411851 BEAM ANGLE 0°

SIZE 1" Ø FREQ 2.25

SHOE No. N/A CABLE No. 2

CHECK MADE BY: Ramsey

REP RATE

611

SWEEP DELAY

321

REVIEWED BY R. S. [Signature] SNT-TC-1A LEVEL III

w. J. Caldwell ANII HSB  
3-30-81

## VESSEL UT CALIBRATION DATA SHEET

Cal. Sheet No. 84660

Site LaSalle County Nuclear Station I ☒ Preoperational ☐ I.S.I.

Procedure No. NIRZ2-N9-S751 Rev. 0 Calib. Block No. 01-91-04

Date 4/14/81 Couplant Glycerine Cal. Std. Temp. 15 °F

Examiner R.D. Whately ASNT Level III

Recorder M.E. Williams ASNT Level IT

Equipment Data:

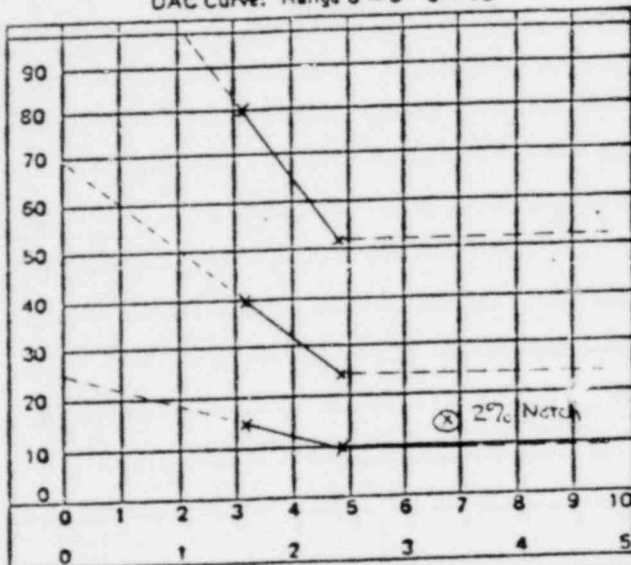
Instrument Model No. Scout Mk I Shoe No. NA

Instrument Serial No. 732009 Cable No. NA

Transducer Size 0.5" DIA Frequency 2.25 MHz

Transducer Serial No. 112 IIW-2 Beam Angle 44

DAC Curve: Range 0 - 5 0 - 10



### Instrument Settings:

	Start	Finish
Attenuation	NA	NA
Sweep	10/46s	10/46s
Delay	270	270
Scanning Gain	31	31
Evaluating Gain	60	60
Filter Position	OFF	OFF
Rep Rate	3k	3k
Damping	OFF	OFF
Reject	OFF	OFF

21 dB Change for 10 X

Initial Calibration Time 0950

### Periodic Checks

Time	Value	Last Data Sheet
<u>1330</u>		<u>84660</u>
Final Check		
<u>1530</u>		<u>18861</u>

Hole Depth	Gain @ 1X	Max. Amp.	"W" Inch	Depth Inch	SDH or FBH
1/4	1X	—	—	—	—
1/2	23	80	22	32	SDH
3/4	34	52	34	48	SDH
2% Notch	NA	14	4.7	68	N/A

NDE Sup.  
SD Comally  
4/14/81

R.D. Whately 4/23/81

S.I. Feltner ANEL  
4-23-81

Angle Beam Spread @ 1X 45°_____ or 60°_____																
(Made once per calibrated system - Calibration standard combination)																
Hole Depth	Trailing Ray								Leading Ray							
	10% DAC		25% DAC		50% DAC		100% DAC		50% DAC		25% DAC		10% DAC			
	W	D	W	D	W	D	W	D	W	D	W	D	W	D		
1/4T																
1/2T																
3/4T																

Amplitude Linearity Check (Made Daily)					
100%FSH	<u>49</u>	% FSH	50%FSH	<u>25</u>	% FSH
90% "	<u>44</u>	"	40% "	<u>19</u>	"
80% "	<u>40</u>	"	30% "	<u>15</u>	"
70% "	<u>35</u>	"	20% "	<u>9</u>	"
60% "	<u>30</u>	"			

Control Linearity (Made Daily)			
80%FSH	-6db	<u>41</u>	(32-48)
80% "	-12db	<u>24</u>	(16-24)
40% "	+6db	<u>77</u>	(64-96)
20% "	+12db	<u>78</u>	(64-96)

Equip. Data - Angle Beam For Linearity Checks
Code Block T <u>465</u>
Transducer Data
Serial No. <u>112</u>
Beam Angle <u>44°</u>
Size <u>0.5" DIA</u> Freq <u>2.25</u>
Shoe No. <u>NA</u> Cable No. <u>NA</u>
Check Made By: <u>L. D. Whentley</u>

## Checks on IIW-2

Block on 1/8" SDH for Field Calib.  
 Checks @ Max Amp. for Both Near & Far  
 Positions in % Screen Height

1/8" SDH	Near	Far
Max. Amp.	<u>86 %</u>	<u>40 %</u>
Metal Path	<u>1.8</u>	<u>3.8</u>

Reviewed by L. D. Whentley SNT-TC Level III

NDFS Sup.  
 S. J. Connelly  
 4/10/80

S. J. Connelly  
 4-23-81



Procedure No. NIRZ2-N9-S751  
 Revision No. 0  
 Page 12 of 12

Exam Sheet No. 84661  
 Cal. Sheet No. 84660

**NOZZLE BLEND RADIUS EXAMINATION DATA SHEET**

Site LaSalle County Station I ☒ Preoperational ☐ I.S.I. Date 4/14/81  
 Examiner R.D. Wheatley Level III Recorder M.E. Williams Level II  
 Nozzle ID No. I-NIR-N9A Nozzle Type. Jet Pump Instrumentation  
 Procedure No. NIRZ2-N9-S751 Rev. 0 Shoe Numbers NA  
 Scan Sensitivity 10 ☒ Evaluation Sensitivity 1 ☒  
 Couplant Glycerine Component Temperature 86 °F

Indication Record:

Location		Max Amp % DAC	Beam - Direction CW or CCW	Metal Path In.	Size & Type Length or Width, DAC 20%—20%, In.	Comments
Radial X"	Dist. X-In.					
			CW, CCW			No recordables. Scanned at +10dB over scanning gain to monitor clad roll. Unable to evaluate 0-19' due to wedge noise. RWW

Reviewed by R.D. Wheatley III  
 SNT-TC Level

NDE Sup  
 SNT-TC  
 4/16/81

S.A. P. H. AMEE  
 4-23-81



Exam Sheet No. 84662  
Cal. Sheet No. 84660

## NOZZLE BLEND RADIUS EXAMINATION DATA SHEET

Site LaSalle County Station I ☒ Preoperational ☐ I.S.I. Date 4/12/81  
Examiner LDQDkathy Level III Recorder M.E. Williams Level IT  
Nozzle ID No. I-NIR-9AB Nozzle Type. Jet Pump Instrumentation  
Procedure No. NIRZZ-N9-S751 Rev. 0 Shoe Numbers NA  
Scan Sensitivity 10 X Evaluation Sensitivity 1 X  
Couplant Glycerine Component Temperature 86 °F

Indication Record:

[illegible]

Reviewed by 2092 Wheatley III  
SNT-TC Level

NDE Sup.  
S. L. Connelly  
4/16/80

S. J. Feltham AMER  
4-23-81

DATE: 1-14-80

EXAMINER: [Signature] LEVEL II DATA TAKER: [Signature] LEVEL IT  
INSTRUMENT: 810055 MODEL NO: ☐ BRANSON 301; ☒ BRANSON 303; ☐ SONIC MKI; ☐ OTHER \_\_\_\_\_  
SEARCH UNIT: ☐ 0° (LONG. WAVE); ☐ 45° (SHEAR WAVE); ☒ 60° (SHEAR WAVE); ☐ OTHER \_\_\_\_\_  
BEAM ANGLE: ☐ 0.25" DIA/2.25 MHZ; ☐ 0.25" X 0.25"/2.25MHZ; ☐ 0.25" X 0.5"/2.25 MHZ;  
TRANSducer SIZE/FREQ: ☐ 0.5" X 0.5"/2.25 MHZ; ☐ 0.25" DIA/5.0 MHZ; ☐ 0.25" X 0.25"/5.0 MHZ;  
SERIAL NO. (V403)(4181) ☐ 0.25" X 0.5"/5.0 MHZ; ☐ 0.5" X 0.5"/5.0 MHZ; ☒ OTHER 0.5" X 1.0"/2.25 MHZ  
☐ DUAL TRANSDUCERS; ☐ SINGLE TRANSDUCER; ☐ SPECIAL WEDGE \_\_\_\_\_  
CABLE: ☐ RG-58; ☐ RG-59; ☐ RG-57; ☒ RG-174 (Microdot); ☐ OTHER \_\_\_\_\_ LENGTH: 12'  
TYPE: BNC

SCREEN HEIGHT LINEARITY CHECK:

1st REFLECTOR AMPLITUDE IN % FSH	2nd REFLECTOR AMPLITUDE IN % FSH	1st REFLECTOR AMPLITUDE IN % FSH	2nd REFLECTOR AMPLITUDE IN % FSH
100	50	50	25
90	43	40	21
80	40	30	18
70	37	20	10
60	30		

THE 2nd REFLECTOR SHALL BE 50% OF THE 1st REFLECTOR  $\pm$  5% FSH TO MEET SCREEN HEIGHT LINEARITY.

AMPLITUDE CONTROL LINEARITY:

REFLECTOR AMP. SET IN % FSH	dB CONTROL CHANGE	READING OFF SCREEN	REFLECTOR AMP. LIMITS IN % FSH
80%	-6dB	40	32 to 48%
80%	-12dB	20	16 to 24%
40%	+6dB	80	64 to 96%
20%	+12dB	82	64 to 96%

MINUS (-) DENOTES DECREASE IN AMPLITUDE; PLUS (+) DENOTES INCREASE.

[Signature] 1/14/80 NDE Sup.

REVIEWED BY: [Signature] DATE: 1/23/80  
GENERAL ELECTRIC CO. LEVEL III  
w/9 Caldwell 10-27-80- ANXI

# GENERAL ELECTRIC

INSTALLATION & SERVICE ENGINEERING DIVISION

## U.T. CALIBRATION DATA SHEET

LSCS UNIT ☒ 1; ☐ 2

CDS NO. 93030

CALIBRATION DATE 1-14-80

LDS NO. 93029

PROCEDURE NO. MPV-5751 REV. 2

EXAMINER: [Signature] LEVEL IT DATA TAKER: [Signature] LEVEL IT

INSTRUMENT:  
SERIAL NO. 810055 MODEL NO: ☐ BRANSON 301; ☒ BRANSON 303; ☐ SONIC MKI; ☐ USL-32;  
☐ OTHER

SEARCH UNIT:  
BEAM ANGLE: ☐ 0° (LONG. WAVE); ☐ 45° (SHEAR WAVE); ☒ 60° (SHEAR WAVE); ☐ OTHER

TRANSDUCER SIZE/FREQ: ☐ 0.25" DIA/2.25 MHZ; ☐ 0.25" X 0.25"/2.25 MHZ; ☐ 0.25" X 0.5"/2.25 MHZ;

SERIAL NO. V403(4191) ☐ 0.5" DIA/2.25 MHZ; ☐ 0.25" DIA/5.0 MHZ; ☐ 0.25" X 0.25"/5.0 MHZ;

IIW BLOCK BEAM ANGLE CHECK 60° ☐ 0.25" X 0.5"/5.0 MHZ; ☐ 0.5" X 0.5"/5.0 MHZ; ☒ OTHER 10" X 0.5"/2.25 MHZ

☐ DUAL TRANSDUCERS; ☒ SINGLE TRANSDUCER; ☐ SPECIAL WEDGE

CABLE:  
TYPE: ☐ RG-58; ☐ RG-59; ☐ RG-57; ☒ RG-174 (BNC); ☐ Other LENGTH: 12'

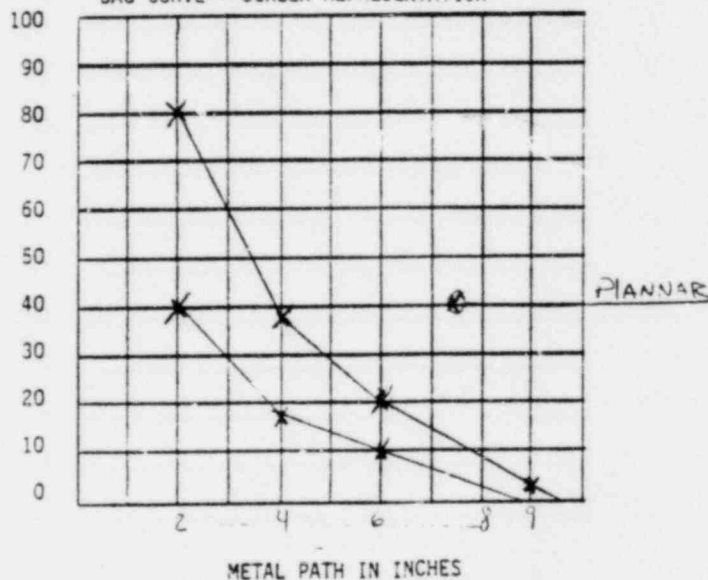
CAL. BLOCK:  
MATERIAL: ☒ CARBON STEEL; ☐ STAINLESS STEEL; ☐ INCONEL; ☐ OTHER

NUMBER: 01-92-07; T = 8.45 ; A. = N/A ; CAL. BLK. & EXAM COMP. TEMPERATURES WITHIN 25° F ☐ YES ☒ NO

CALIBRATION CHECKS: 3 INITIAL CAL. TIME 9:00 COUPLANT: ☒ GLYCERINE; ☐ ULTRAGEL II; ☐ OTHER

DATE	TIME	LAST EDS NO.	LAST EDS LINE NO.	VERIFICATION OF 25° F LIMIT (YES OR NO)
1-14-80	9:00	N/A	N/A	YES
1-14-80	11:30	93031	11	YES
1-14-80	12:30	93031	11	YES
1-14-80	15:30	93032	6	YES

DAC CURVE---SCREEN REPRESENTATION



2X SCAN SENSITIVITY = 6 dB CHANGE  
VESSEL BLOCK CLAD INTERFACE = 4 dB CHANGE

### INSTRUMENT SETTINGS:

CONTROLS:	SET	CHECK	CHECK	CHECK
GAIN	100/797	X	X	X
SWEET	0.87	X	X	X
DELAY	50/058	X	X	X
SCAN GAIN	100/797	X	X	X
FILTER	AUTO	X	X	X
REP. RATE	MED	X	X	X
DAMPENING	OFF	X	X	X
REJECT	OFF	X	X	X
OTHER:	N/A	X	X	X

REFLECTOR	PEAK AMP.	W <sub>1</sub>	W <sub>m</sub>	W <sub>2</sub>	SRP <sub>1</sub>	SRP <sub>m</sub>	SRP <sub>2</sub>	HOLE DEPTH
1/4 T or 1/8 Vee	90%	2.6	3.85	4.85	1.3	2.0	2.2	2.15
1/2 T or 2/8 Vee	18%	6.15	8.15	8.8	3.8	4.0	4.2	4.25
3/4 T or 3/8 Vee	20%	10.95	12.0	12.5	5.6	6.0	6.2	6.35
B.R. or 5/8 Vee	50%	-	-	-	-	9.0	-	-

Reviewed By: NDE Supervisor [Signature] Date 1/14/80

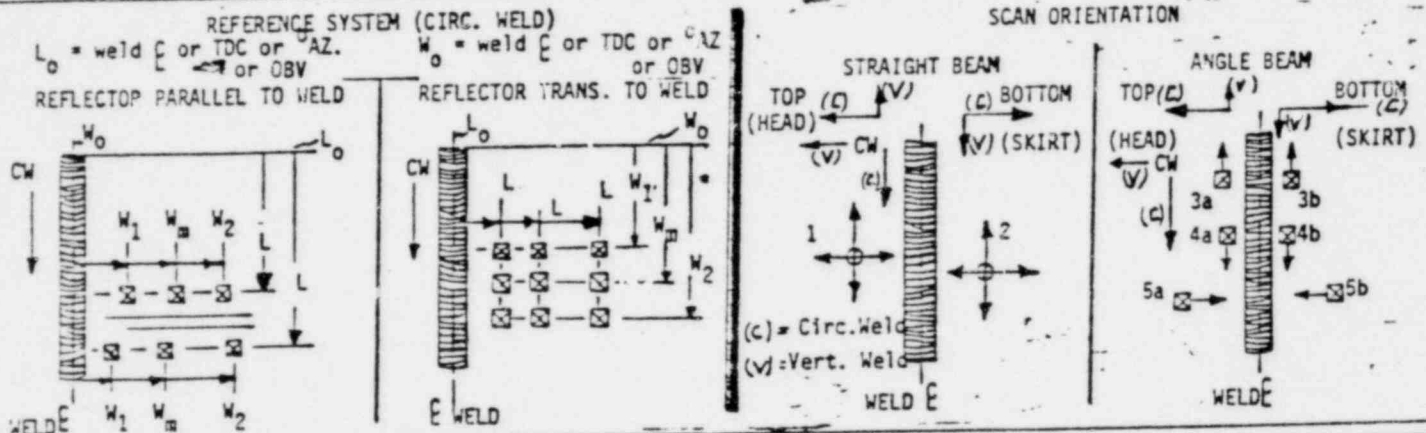
QC Supervisor [Signature] Date 1/23/80

ANII [Signature] Date 10-27-80

PROCEDURE NO. NPV-5751 REV. NO. 2 EXAMINER [Signature] LEVEL II SYSTEM RPV

DATA RECORDER [Signature] LEVEL II COUPLANT: ☐ GLYCERINE; ☐ OTHER

SEARCH ANGLE: ☐ 0°; ☐ 45°; ☒ 60°; ☐ OTHER SCAN SENS: ☒ 2X; ☐ 5X; ☐ 10X; ☐ OTHER



DATE	LINE NO.	EXAM/COMP. I.D. NO.	COMP FIG.	REC. IND. YES/NO	MAX % DAC @ W <sub>m</sub>	L <sub>0</sub> W <sub>0</sub>	L	W <sub>1</sub> (50% DAC)	W <sub>m</sub>	W <sub>2</sub> (50% DAC)	SRP <sub>1</sub> (50% DAC)	SRP <sub>m</sub>	SRP <sub>2</sub> (50% DAC)	SCAN	Comments (Thickness Meas.)
1-14-80	1	NZ-J	NH	NO											SCAN 360° OF W, & 2
1-14-80	2	NZ-H	NH	NO											SCAN 360° OF W, & 2' 90°-105° & 20"
1-14-80	3	NZ-G	NH	NO											SCAN 360° OF W, & 2'
1-14-80	4	NZ-F	NH	NO											SCAN 360° OF W, & 2"
1-14-80	5	NZ-B	NH	NO											SCAN 360° OF W, & 2"
1-14-80	6	NZ-E	NH	YES	50%		28.5"								
1-14-80	7	NZ-E	NH	YES	100%		29"	.5	.8	.9	4.0	4.0	4.2	5a	29"
1-14-80	8	NZ-E	NH	YES	50%		29.5"								
1-14-80	9	NZ-E	NH	YES	100%		INT 360°	.6	.9	.9	1.8	2.0	2.0	5A	360° INT 45" TO TDC 270° TO 90°
1-14-80	10	NZ-E	NH	YES	100%		270° TO 90°	1.3	1.5	1.6	2.6	2.8	2.8	5a	
1-14-80	11	ARD	NH	NO											

ADDITIONAL COMMENTS/ EVALUATION:

Line 6-8 was located 1" beyond centerline at 50% T<sub>50</sub> ID geometry from nozzle bore as signal rolls with rotation of transducer. Line 9,10 could only be seen at high gain. Suspect data was recorded at scanning gain.

Reviewed By: NDE Supervisor [Signature] Date 1/14/80  
QC Supervisor [Signature] Date 1-23-80  
ANII [Signature] Date 1-27-80

LSCS UNIT: 1 ☒; 2 ☐

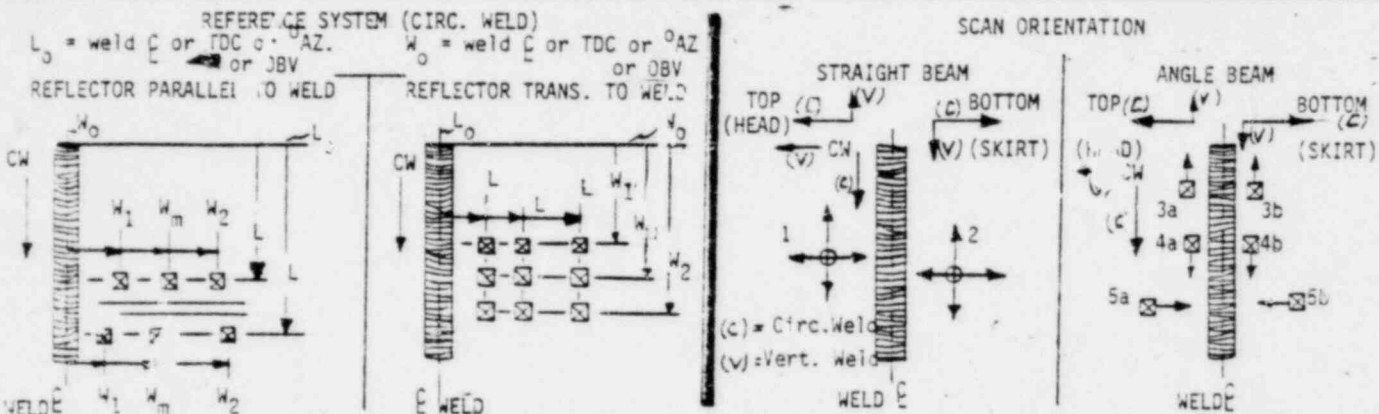
EDS NO. 73032

CDS NO. 93030

PROCEDURE NO. MPV-5751 REV. NO. 2 EXAMINER Jimmy Hing LEVEL II SYSTEM RPV

DATA RECORDER Robert Himmelfarb LEVEL II COUPLANT: ☒ GLYCERINE; ☐ OTHER

SEARCH ANGLE: ☐ 0°; ☐ 45°; ☒ 60°; ☐ OTHER SCAN SENS: ☒ 2X; ☐ 5X; ☐ 10X; ☐ OTHER



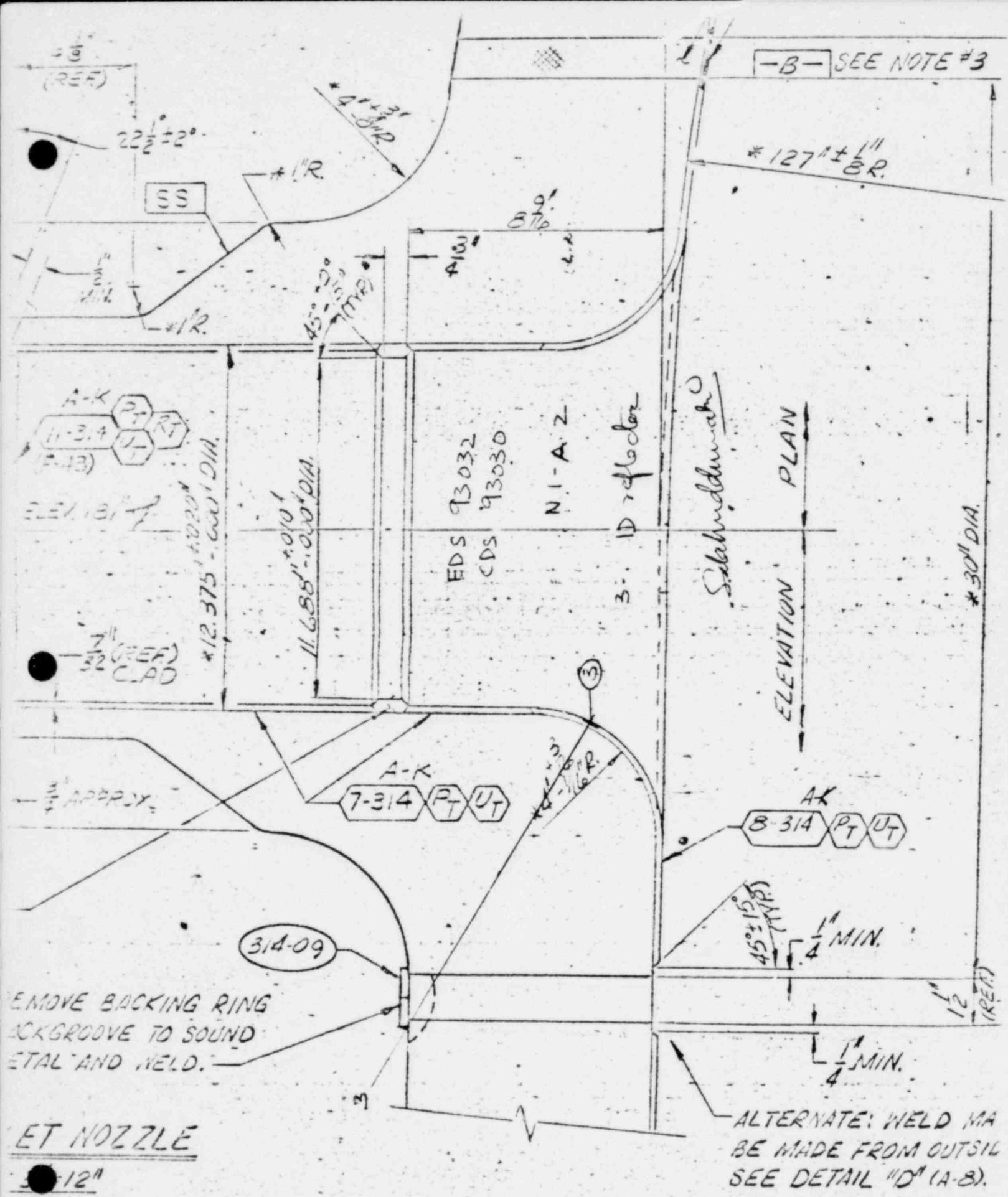
DATE	LINE NO.	EXAM/COMP. I.D. NO.	COMP. FIG.	REC. IND. YES/NO	MAX % DAC @ $W_m$	$L_0$ / $W_0$	L	$W_1$ (50% DAC)	$W_m$	$W_2$ (50% DAC)	SRP <sub>1</sub> (50% DAC)	SRP <sub>m</sub> (50% DAC)	SRP <sub>2</sub> (50% DAC)	SCAN	Comments (Thickness Meas.)
1-14-80	1	NZ-A	YH	NO											SCAN 360° OF W & 2"
1-14-80	2	NI-A-1	N/	YES											SCAN 360° OF W & 2", 73.8°-98.4° E → 20" (INDICATION IN LINE #3)
1-14-80	3	NI-A-2	N/	YES	+10 100%	150° TO 0°	5	1	1.5	5.7	5.8	5.8	5A		78" TO 0" 180° TO 0°
1-14-80	4	NZ-K	YH	NO											SCAN 360° OF W, & 2"
1-14-80	5	NZ-L	YH	NO											SCAN 360° OF W, & 2"
1-14-80	6	NZ-B	YH	NO											SCAN 360° OF W, & 2"
	7														
	8														
	9														
	10														
	11														

ADDITIONAL COMMENTS/ EVALUATION:

line 3 is 1/2 geometry from inner radius LNW

Reviewed By: NOE Supervisor W. J. Connelly Date 1/14/80  
 QC Supervisor L. J. Wheatley Date 1/23/80  
 ANII W. J. Caldwell Date 10-27-80







# PENETRANT INSPECTION DATA SHEET

FREE WATER SPARGER SERIAL NUMBER \_\_\_\_\_

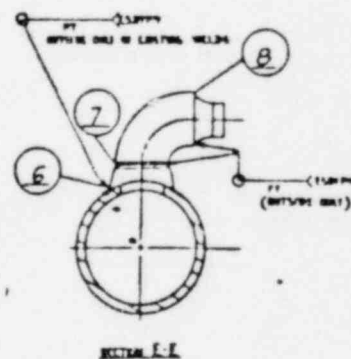
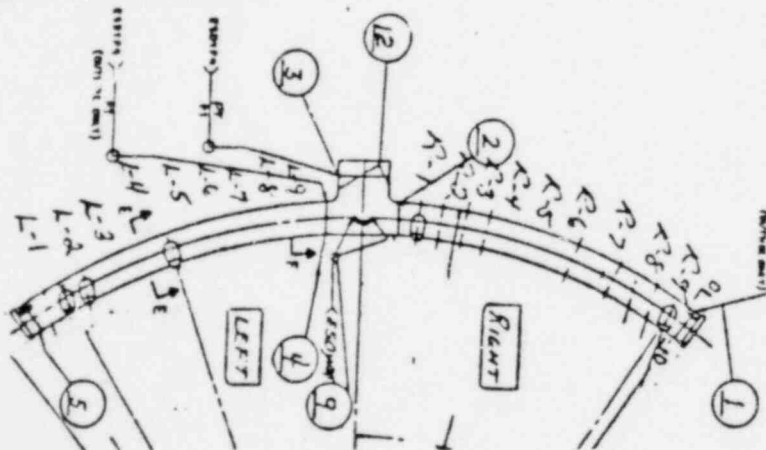
QUADRANT LOCATION \_\_\_\_\_

W. 6	Accept	Date	F.W. 7	Accept	Date	F.W. 8	Accept	Date	Remaining Welds		
									F.W.	Accept	Date
L1			L1			L1			1		
L2			L2			L2			2		
L3			L3			L3			3		
L4			L4			L4			4		
L5			L5			L5			5		
L6			L6			L6			9		
L7			L7			L7			10		
L8			L8			L8			11		
L9			L9			L9			12		
R1			R1			R1			Thermal Sleeve S/N _____ Quadrant		
R2			R2			R2					
R3			R3			R3			F.W.	Accept	Date
R4			R4			R4			13		
R5			R5			R5			14		
R6			R6			R6			15		
R7			R7			R7			16		
R8			R8			R8					
R9			R9			R9					

DESCRIPTION AND LOCATION OF UNACCEPTABLE INDICATIONS (When noted)

DISPOSITION

THIS IS THE TYPICAL NUMBERING FOR WELDS 6, 7, + 8  
ON ALL SPARGERS



FDI NO. 91-57434 Rev. 0 and FDDR No. HAL-207

Penetrant Procedure: RCI PE-1 Rev

Acceptance Criteria: GE Spec ESDYPI Rev 3 Section 4.1.4

PSI Ref. No.

RPV-13

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# PENETRANT INSPECTION DATA SHEET

 FEEDWATER SPARGER SERIAL NUMBER 1

 QUADRANT LOCATION 150°

									Remaining Welds		
F.W. 6	Accept	Date	F.W. 7	Accept	Date	F.W. 8	Accept	Date	F.W.	Accept	Date
L1	BW Seal II	7/17/79	L1	BW Seal II	7/17/79	L1	BW Seal II	7/17/79	1	BW Seal II	7/16/79
L2	BW Seal II	7/17/79	L2	BW Seal II	7/17/79	L2	BW Seal II	7/17/79	2	BW Seal II	7/16/79
L3	BW Seal II	7/17/79	L3	BW Seal II	7/17/79	L3	BW Seal II	7/17/79	3	BW Seal II	7/16/79
L4	BW Seal II	7/17/79	L4	BW Seal II	7/17/79	L4	BW Seal II	7/17/79	4	BW Seal II	7/16/79
L5	BW Seal II	7/17/79	L5	BW Seal II	7/17/79	L5	BW Seal II	7/17/79	5	BW Seal II	7/17/79
L6	BW Seal II	7/17/79	L6	BW Seal II	7/17/79	L6	BW Seal II	7/17/79	9	BW Seal II	7/16/79
L7	BW Seal II	7/17/79	L7	BW Seal II	7/17/79	L7	BW Seal II	7/17/79	10	BW Seal II	7/17/79
L8	BW Seal II	7/17/79	L8	BW Seal II	7/17/79	L8	BW Seal II	7/17/79	11	BW Seal II	7/16/79
L9	BW Seal II	7/17/79	L9	BW Seal II	7/17/79	L9	BW Seal II	7/17/79	12	BW Seal II	7/16/79
R1	BW Seal II	7/16/79	R1	BW Seal II	7/16/79	R1	BW Seal II	7/16/79	Thermal Sleeve S/N <u>001</u> Quadrant		
R2	BW Seal II	7/16/79	R2	BW Seal II	7/16/79	R2	BW Seal II	7/16/79			
R3	BW Seal II	7/16/79	R3	BW Seal II	7/16/79	R3	BW Seal II	7/16/79	F.W.	Accept	Date
R4	BW Seal II	7/16/79	R4	BW Seal II	7/16/79	R4	BW Seal II	7/16/79	13	H Phillips	7/11/79
R5	BW Seal II	7/16/79	R5	BW Seal II	7/16/79	R5	BW Seal II	7/16/79	14	H Phillips	7/11/79
R6	BW Seal II	7/16/79	R6	BW Seal II	7/16/79	R6	BW Seal II	7/16/79	15	H Phillips	7/11/79
R7	BW Seal II	7/16/79	R7	BW Seal II	7/16/79	R7	BW Seal II	7/16/79	16	N/A	N/A
R8	BW Seal II	7/16/79	R8	BW Seal II	7/16/79	R8	BW Seal II	7/16/79			
R9	BW Seal II	7/16/79	R9	BW Seal II	7/16/79	R9	BW Seal II	7/16/79			

DESCRIPTION AND LOCATION OF UNACCEPTABLE INDICATIONS (When noted)	DISPOSITION
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FDI NO. 91-57434 Rev. 0 and FDDR No. HAL-207

 Penetrant Procedure: RCI PE-1 Rev 5

 Acceptance Criteria: GE Spec E5DYPH Rev 3 Section 4.1.4 PSI Ref. No.

RPV-13

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# PENETRANT INSPECTION DATA SHEET

 FEEDWATER SPARGER SERIAL NUMBER 002

 QUADRANT LOCATION 210°

F.W. 6	Accept	Date	F.W. 7	Accept	Date	F.W. 8	Accept	Date	Remaining Welds		
									F.W.	Accept	Date
L1	<i>1/16" dia</i>	7/16/79	L1	<i>CRB</i>	5/18/81	L1	<i>CRB</i>	5/18/81	1	<i>1/16" dia</i>	7/16/79
L2	<i>1/16" dia</i>	7/12/79	L2	<i>CRB</i>	5/18/81	L2	<i>CRB</i>	5/18/81	2	<i>1/16" dia</i>	7/12/79
L3	<i>1/16" dia</i>	7/12/79	L3	<i>CRB</i>	5/18/81	L3	<i>CRB</i>	5/18/81	3	<i>1/16" dia</i>	7/12/79
L4	<i>1/16" dia</i>	7/12/79	L4	<i>CRB</i>	5/18/81	L4	<i>CRB</i>	5/18/81	4	<i>1/16" dia</i>	7/12/79
L5	<i>1/16" dia</i>	7/12/79	L5	<i>CRB</i>	5/18/81	L5	<i>CRB</i>	5/18/81	5	<i>1/16" dia</i>	7/12/79
L6	<i>1/16" dia</i>	7/12/79	L6	<i>CRB</i>	5/18/81	L6	<i>CRB</i>	5/18/81	9	<i>1/16" dia</i>	7/12/79
L7	<i>1/16" dia</i>	7/12/79	L7	<i>CRB</i>	5/18/81	L7	<i>CRB</i>	5/18/81	10	<i>1/16" dia</i>	7/12/79
L8	<i>1/16" dia</i>	7/12/79	L8	<i>CRB</i>	5/18/81	L8	<i>CRB</i>	5/18/81	11	<i>1/16" dia</i>	7/12/79
L9	<i>1/16" dia</i>	7/12/79	L9	<i>CRB</i>	5/18/81	L9	<i>CRB</i>	5/18/81	12	<i>1/16" dia</i>	7/12/79
R1	<i>1/16" dia</i>	7/12/79	R1	<i>CRB</i>	5/18/81	R1	<i>CRB</i>	5/18/81	Thermal Sleeve S/N 002 Quadrant <i>210°</i>		
R2	<i>1/16" dia</i>	7/12/79	R2	<i>CRB</i>	5/18/81	R2	<i>CRB</i>	5/18/81			
R3	<i>1/16" dia</i>	7/12/79	R3	<i>CRB</i>	5/18/81	R3	<i>CRB</i>	5/18/81	F.W.	Accept	Date
R4	<i>1/16" dia</i>	7/12/79	R4	<i>CRB</i>	5/18/81	R4	<i>CRB</i>	5/18/81	13	<i>1/16" dia</i>	7/12/79
R5	<i>1/16" dia</i>	7/12/79	R5	<i>CRB</i>	5/18/81	R5	<i>CRB</i>	5/18/81	14	<i>1/16" dia</i>	7/12/79
R6	<i>1/16" dia</i>	7/12/79	R6	<i>CRB</i>	5/18/81	R6	<i>CRB</i>	5/18/81	15	<i>1/16" dia</i>	7/12/79
R7	<i>1/16" dia</i>	7/12/79	R7	<i>CRB</i>	5/18/81	R7	<i>CRB</i>	5/18/81	16	N/A	N/A
R8	<i>1/16" dia</i>	7/12/79	R8	<i>CRB</i>	5/18/81	R8	<i>CRB</i>	5/18/81			
R9	<i>1/16" dia</i>	7/12/79	R9	<i>CRB</i>	5/18/81	R9	<i>CRB</i>	5/18/81			

DESCRIPTION AND LOCATION OF UNACCEPTABLE INDICATIONS (When noted)

DISPOSITION



*Y. Bartlett*  
*5-19-81*



FDI NO. 91-57134 Rev. 0 and FDDR No. HAL-207

Penetrant Procedure: RCI P-1 Rev 5

Acceptance Criteria: GE Spec ESDYPI Rev 3 Section 1.1.4

PSI Ref. No. RPV-13

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# PENETRANT INSPECTION DATA SHEET

 FRESH WATER SPARGER SERIAL NUMBER 3

 QUADRANT LOCATION 96°

F.W.	Accept	Date	F.W.	Accept	Date	F.W.	Accept	Date	Remaining Welds		
									F.W.	Accept	Date
L1	EW Seal II	7/18/79	L1	EW Seal II	7/18/79	L1	EW Seal II	7/18/79	1	EW Seal II	7/17/79
L2	EW Seal II	7/18/79	L2	EW Seal II	7/18/79	L2	EW Seal II	7/18/79	2	EW Seal II	7/17/79
L3	EW Seal II	7/18/79	L3	EW Seal II	7/18/79	L3	EW Seal II	7/18/79	3	EW Seal II	7/17/79
L4	EW Seal II	7/18/79	L4	EW Seal II	7/18/79	L4	EW Seal II	7/18/79	4	EW Seal II	7/17/79
L5	EW Seal II	7/18/79	L5	EW Seal II	7/18/79	L5	EW Seal II	7/18/79	5	EW Seal II	7/19/79
L6	EW Seal II	7/18/79	L6	EW Seal II	7/18/79	L6	EW Seal II	7/18/79	9	EW Seal II	7/17/79
L7	EW Seal II	7/18/79	L7	EW Seal II	7/18/79	L7	EW Seal II	7/18/79	10	EW Seal II	7/17/79
L8	EW Seal II	7/18/79	L8	EW Seal II	7/18/79	L8	EW Seal II	7/18/79	11	EW Seal II	7/17/79
L9	EW Seal II	7/17/79	L9	EW Seal II	7/14/79	L9	EW Seal II	7/17/79	12	EW Seal II	7/17/79
R1	EW Seal II	7/18/79	R1	EW Seal II	7/18/79	R1	EW Seal II	7/18/79	Thermal Sleeve S/N 003 Quadrant		
R2	EW Seal II	7/18/79	R2	EW Seal II	7/18/79	R2	EW Seal II	7/18/79			
R3	EW Seal II	7/18/79	R3	EW Seal II	7/18/79	R3	EW Seal II	7/18/79	F.W.	Accept	Date
R4	EW Seal II	7/18/79	R4	EW Seal II	7/18/79	R4	EW Seal II	7/18/79	13	EW Seal II	7/20/79
R5	EW Seal II	7/18/79	R5	EW Seal II	7/18/79	R5	EW Seal II	7/18/79	14	EW Seal II	7/10/79
R6	EW Seal II	7/18/79	R6	EW Seal II	7/18/79	R6	EW Seal II	7/18/79	15	EW Seal II	7/10/79
R7	EW Seal II	7/18/79	R7	EW Seal II	7/18/79	R7	EW Seal II	7/18/79	16	N/A	N/A
R8	EW Seal II	7/17/79	R8	EW Seal II	7/17/79	R8	EW Seal II	5/18/81			
R9	EW Seal II	7/17/79	R9	EW Seal II	7/17/79	R9	EW Seal II	5/18/81			

DESCRIPTION AND LOCATION OF UNACCEPTABLE INDICATIONS (When noted)      DISPOSITION

F.W. 13 had 2 unacceptable linear indications approximately 6" apart in the middle of the welds. (Beads apparently not completely tied in). Both indications were flapper-wheeled until the weld bead was flush with the pipe. At this point penetrant examination determined that one indication had been eliminated. G.E. then instructed RCI to remove additional metal from the remaining indication. At a depth of approximately .020, the indication was eliminated.

*W Donath level II*  
*11/20/79*



FDI NO. 91-57434 Rev. O and FDDR No. HAL-207

 Penetrant Procedure: RCI PE-1 Rev 5

Acceptance Criteria: GE Spec ESDYPL Rev 3 Section 4.1.4 PSI Ref. No. RPV-13

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# PENETRANT INSPECTION DATA SHEET

 FEED WATER SPARGER SERIAL NUMBER 4

 QUADRANT LOCATION 270°

F.N. 6	Accept	Date	F.N. 7	Accept	Date	F.N. 8	Accept	Date	Remaining Welds		
									F.N.	Accept	Date
L1	BW Seal II	7/25/79	L1	BW Seal II	7/25/79	L1	BW Seal II	7/25/79	1	BW Seal II	8/7/79
L2	BW Seal II	7/25/79	L2	BW Seal II	7/25/79	L2	BW Seal II	7/25/79	2	BW Seal II	7/24/79
L3	BW Seal II	7/25/79	L3	BW Seal II	7/25/79	L3	BW Seal II	7/25/79	3	BW Seal II	7/24/79
L4	BW Seal II	7/25/79	L4	BW Seal II	7/25/79	L4	BW Seal II	7/25/79	4	BW Seal II	7/24/79
L5	BW Seal II	7/25/79	L5	BW Seal II	7/25/79	L5	BW Seal II	7/25/79	5	BW Seal II	7/25/79
L6	BW Seal II	7/24/79	L6	BW Seal II	7/24/79	L6	BW Seal II	7/24/79	9	BW Seal II	7/24/79
L7	BW Seal II	7/24/79	L7	BW Seal II	7/24/79	L7	BW Seal II	7/24/79	10	BW Seal II	7/25/79
L8	BW Seal II	7/24/79	L8	BW Seal II	7/24/79	L8	BW Seal II	7/24/79	11	BW Seal II	7/24/79
L9	BW Seal II	7/24/79	L9	BW Seal II	7/24/79	L9	BW Seal II	7/24/79	12	BW Seal II	7/24/79
R1	BW Seal II	7/24/79	R1	BW Seal II	7/24/79	R1	BW Seal II	7/24/79	Thermal Sleeve S/N 006 Quadrant		
R2	BW Seal II	7/24/79	R2	BW Seal II	7/24/79	R2	BW Seal II	7/24/79			
R3	BW Seal II	7/24/79	R3	BW Seal II	7/24/79	R3	BW Seal II	7/24/79	F.N.	Accept	Date
R4	BW Seal II	7/24/79	R4	BW Seal II	7/24/79	R4	BW Seal II	7/24/79	13	<i>B. Wainwright</i>	7/10/79
R5	BW Seal II	7/24/79	R5	BW Seal II	7/24/79	R5	BW Seal II	7/24/79	14	<i>B. Wainwright</i>	7/10/79
R6	BW Seal II	7/24/79	R6	BW Seal II	7/24/79	R6	BW Seal II	7/24/79	15	<i>B. Wainwright</i>	7/10/79
R7	BW Seal II	7/24/79	R7	BW Seal II	7/24/79	R7	BW Seal II	7/24/79	16	<i>B. Wainwright</i>	7/10/79
R8	BW Seal II	7/24/79	R8	BW Seal II	7/24/79	R8	BW Seal II	7/24/79			
R9	BW Seal II	7/24/79	R9	BW Seal II	7/24/79	R9	BW Seal II	7/24/79			

DESCRIPTION AND LOCATION OF UNACCEPTABLE INDICATIONS (When noted)      DISPOSITION

F.N. 1 had an unacceptable linear indication in the middle of the weld. The indication was excavated out to a depth of 1/16". At this point, penetrant examination determined that the indication had been eliminated. The excavation was then filled in with weld metal in accordance with P-3, surface finished to blend with rest of weld and penetrant examined for final acceptance.

*B. Wainwright*      Level II  
8/7/79



FDI NO. 91-57434 Rev. 0 and FDDR No. HAL-207

 Penetrant Procedure: RCI PE-1 Rev 5

Acceptance Criteria: GE Spec ESDYPh Rev 3 Section 4.1.4

PSi Ref. No.

RPV-13

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# PENETRANT INSPECTION DATA SHEET

FRED WATER SPARGER SERIAL NUMBER

5

QUADRANT LOCATION

330°

F.W. 6	Accept	Date	F.W. 7	Accept	Date	F.W. 8	Accept	Date	Remaining Welds		
									F.W.	Accept	Date
L1	BW Seal II	7/20/79	L1	BW Seal II	7/20/79	L1	BW Seal II	7/20/79	1	BW Seal II	7/23/79
L2	BW Seal II	7/20/79	L2	BW Seal II	7/20/79	L2	BW Seal II	7/20/79	2	BW Seal II	7/23/79
L3	BW Seal II	7/20/79	L3	BW Seal II	7/20/79	L3	BW Seal II	7/20/79	3	BW Seal II	7/23/79
L4	BW Seal II	7/20/79	L4	BW Seal II	7/20/79	L4	BW Seal II	7/20/79	4	BW Seal II	7/23/79
L5	BW Seal II	7/20/79	L5	BW Seal II	7/20/79	L5	BW Seal II	7/20/79	5	BW Seal II	7/23/79
L6	BW Seal II	7/20/79	L6	BW Seal II	7/20/79	L6	BW Seal II	7/20/79	9	BW Seal II	7/23/79
L7	BW Seal II	7/20/79	L7	BW Seal II	7/20/79	L7	BW Seal II	7/20/79	10	BW Seal II	7/23/79
L8	BW Seal II	7/20/79	L8	BW Seal II	7/20/79	L8	BW Seal II	7/20/79	11	BW Seal II	7/23/79
L9	BW Seal II	7/20/79	L9	BW Seal II	7/20/79	L9	BW Seal II	7/20/79	12	BW Seal II	7/23/79
R1	BW Seal II	7/23/79	R1	BW Seal II	7/23/79	R1	BW Seal II	7/23/79	Thermal Sleeve S/N <u>005</u> Quadrant		
R2	BW Seal II	7/23/79	R2	BW Seal II	7/23/79	R2	BW Seal II	7/23/79			
R3	BW Seal II	7/23/79	R3	BW Seal II	7/23/79	R3	BW Seal II	7/23/79	F.W.	Accept	Date
R4	BW Seal II	7/23/79	R4	BW Seal II	7/23/79	R4	BW Seal II	7/23/79	13	<i>426/11/79</i>	7/11/79
R5	BW Seal II	7/23/79	R5	BW Seal II	7/23/79	R5	BW Seal II	7/23/79	14	<i>426/11/79</i>	7/11/79
R6	BW Seal II	7/23/79	R6	BW Seal II	7/23/79	R6	BW Seal II	7/23/79	15	<i>426/11/79</i>	7/11/79
R7	BW Seal II	7/23/79	R7	BW Seal II	7/23/79	R7	BW Seal II	7/23/79	16	<i>N/A</i>	<i>N/A</i>
P8	BW Seal II	7/23/79	P8	BW Seal II	7/23/79	P8	BW Seal II	7/23/79			
P9	BW Seal II	7/23/79	P9	BW Seal II	7/23/79	P9	BW Seal II	7/23/79			

DESCRIPTION AND LOCATION OF UNACCEPTABLE INDICATIONS (When noted)

DISPOSITION



FDI NO. 91-57434 Rev. 0 and FDDR No. HAL-207

 Penetrant Procedure: RCI PE-1 Rev 5

Acceptance Criteria: GE Spec ESDYPL Rev 3 Section 4.1.4

PSI Ref. No. RPV-13

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# PENETRANT INSPECTION DATA SHEET

FEEDWATER SPARGER SERIAL NUMBER

6

QUADRANT LOCATION

30°

F.W. 6	Accept	Date	F.W. 7	Accept	Date	F.W. 8	Accept	Date	Remaining Welds		
									F.W.	Accept	Date
L1	BW Seal II	7/20/79	L1	BW Seal II	7/20/79	L1	BW Seal II	7/20/79	1	BW Seal II	7/20/79
L2	BW Seal II	7/20/79	L2	BW Seal II	7/20/79	L2	BW Seal II	7/20/79	2	BW Seal II	7/19/79
L3	BW Seal II	7/20/79	L3	BW Seal II	7/20/79	L3	BW Seal II	7/20/79	3	BW Seal II	7/19/79
L4	BW Seal II	7/20/79	L4	BW Seal II	7/20/79	L4	BW Seal II	7/20/79	4	BW Seal II	7/19/79
L5	BW Seal II	7/20/79	L5	BW Seal II	7/20/79	L5	BW Seal II	7/20/79	5	BW Seal II	7/20/79
L6	BW Seal II	7/19/79	L6	BW Seal II	7/19/79	L6	BW Seal II	7/19/79	9	BW Seal II	7/19/79
L7	BW Seal II	7/19/79	L7	BW Seal II	7/19/79	L7	BW Seal II	7/19/79	10	BW Seal II	7/20/79
L8	BW Seal II	7/19/79	L8	BW Seal II	7/19/79	L8	BW Seal II	7/19/79	11	BW Seal II	7/19/79
L9	BW Seal II	7/19/79	L9	BW Seal II	7/19/79	L9	BW Seal II	7/19/79	12	BW Seal II	7/19/79
R1	BW Seal II	7/19/79	R1	BW Seal II	7/19/79	R1	BW Seal II	7/19/79	Thermal Sleeve S/N 004 Quadrant		
R2	BW Seal II	7/19/79	R2	BW Seal II	7/19/79	R2	BW Seal II	7/19/79			
R3	BW Seal II	7/19/79	R3	BW Seal II	7/19/79	R3	BW Seal II	7/19/79	F.W.	Accept	Date
R4	BW Seal II	7/19/79	R4	BW Seal II	7/19/79	R4	BW Seal II	7/19/79	13	N/A	7/10/79
R5	BW Seal II	7/19/79	R5	BW Seal II	7/19/79	R5	BW Seal II	7/19/79	14	N/A	7/10/79
R6	BW Seal II	7/19/79	R6	BW Seal II	7/19/79	R6	BW Seal II	7/19/79	15	N/A	7/10/79
R7	BW Seal II	7/19/79	R7	BW Seal II	7/19/79	R7	BW Seal II	7/19/79	16	N/A	N/A
R8	BW Seal II	7/19/79	R8	BW Seal II	7/19/79	R8	BW Seal II	7/19/79			
R9	BW Seal II	7/19/79	R9	BW Seal II	7/19/79	R9	BW Seal II	7/19/79			

DESCRIPTION AND LOCATION OF UNACCEPTABLE INDICATIONS (When noted)

DISPOSITION



FFI NO. 91-57434 Rev. 0 and FDDR No. HAL-207

 Penetrant Procedure: RCI PE-1 Rev 5  
 Acceptance Criteria: GE Spec B5DXPL Rev 3 Section 4.1.4

PSI Ref. No. RPV-13

Page 7 of 7

# LIQUID PENETRANT EXAMINATION DATA SHEET

LASALLE COUNTY STATION UNIT

E.D.S. NO. 40123

A. Procedure No. PP-S751 REV. 3

## Examination Personnel:

NAME Robert T. Hart LEVEL II

NAME N/A LEVEL

## C. Penetrant Materials:

a. MANUFACTURER MAGNAFLUX-SPOTCHECK

b. PRE-CLEANING SOLVENT TYPE SKC-S BATCH NO. 78C130

c. PENETRANT TYPE SKL-HF /SKL-S BATCH NO. 78E073

d. PENETRANT REMOVER TYPE SKC-S BATCH NO. 78C130

e. DEVELOPER TYPE SKD-S BATCH NO. 78D056

f. POST EXAMINATION CLEANER TYPE SKC-S BATCH NO. 78C130

## D. Pre-Examination Requirements:

### a. TEMPERATURE:

1. PENETRANT MATERIALS BETWEEN 60° F & 125° F - YES ☒ NO ☐ Temp.

2. COMPONENT SURFACE BETWEEN 60° F & 125° F - YES ☒ NO ☐ Temp.

### b. SURFACE PREPARATION:

\*1. Grinding \*2. Flapping \*3. None \*4. Other N/A

E. Data: Note: All Exam. Components are ASME Section XI C-E Category

LINE NO.	DATE	PRE-CLEAN. EVAP. TIME (MIN)	PEN. DWELL TIME (MIN)	DEV. EVAP. TIME (MIN)	DEV. TIME (MIN)	EXAMINATION COMPONENT I.D. NO.	MAT'L	SURF. PREP.	RELEVANT INDICATION		ACCEPTABLE		RELEVANT INDICATION LOCATION/SIZE OR COMMENTS
									YES	NO	YES	NO	
1	12-21	6	22	5	25	TRH-1008-28	9/5	2		✓	✓		
2	12-21	6	21	5	24	TRH-1008-23	9/5	2		✓	✓		
3	12-21	6	21	5	24	TRH-1008-33	9/5	2		✓		✓	* 1
4		*	Two linear indications which are side by side.										
5			located 1" to 2" from toe of the weld and										
6			is upstream. Also 5 1/2" Calc. W. from T23.										
7			Both are 4" long.										
8													
9													
10	* Data on line 2 voided per MCCC MRD540 7056 LWW 4/30/81												
11													
12													
13													
14													
15													

\* Note: For each exam component ID NO., place the applicable number(s) (1,2,3 etc) in its appropriate column.

Reviewed By: Robert T. Hart

NDE SUPERVISOR Robert T. Hart DATE 2-26-79

QC SUPERVISOR Michael Hart DATE 3-1-79

AUTHORIZED INSPECTOR A. J. Land DATE 3-8-79

A. PROCEDURE NO. PP-S751 REV. 7

B. EXAMINATION PERSONNEL:

NAME Carroll LEVEL II  
NAME NA LEVEL NA

C. PENETRANT MATERIALS:

a. MANUFACTURER MAGNAFLUX-SPOTCHECK  
b. PRE-CLEANING SOLVENT TYPE SKC-S BATCH NO. 79C014  
c. PENETRANT TYPE SKL-HF /SKL-S BATCH NO. 79B109  
d. PENETRANT REMOVER TYPE SKC-S BATCH NO. 79C014  
e. DEVELOPER TYPE SKD-S BATCH NO. 79E033  
f. POST EXAMINATION CLEANER TYPE SKC-S BATCH NO. 79C014

D. PRE-EXAMINATION REQUIREMENTS:

a. TEMPERATURE:

1. PENETRANT MATERIALS BETWEEN 60° F & 125° F - YES ☒ NO ☐  
2. COMPONENT SURFACE BETWEEN 60° F & 125° F - YES ☒ NO ☐

b. SURFACE PREPARATION:

\*1. GRINDING \*2. FLAPPERING \*3. NONE \*4. OTHER

E. DATA: NOTE: All Exam components are ASME Sect. XI Category. CF

LINE NO.	DATE	PRE-CLEAN EVAP. TIME	PEN. DWELL TIME	PEN. REM. EVAP. TIME	DEV. TIME	EXAMINATION COMPONENT I.D. NO.	MAT'L	SURF PREP #	RELEVANT INDICATION		ACCEPTABLE		RELEVANT INDICATION LOCATION/SIZE OR COMMENTS
									YES 09	NO 10	YES 11	NO 12	
1	4-2	5	10	5	15	IRH-1041-30	CS	2		X	X		
2	4-2	5	10	5	15	IRH-1023-2	CS	2		X	X		
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

NOTE: FOR EACH EXAM COMPONENT ID NO., PLACE THE APPLICABLE NUMBER(S) (1,2,3 etc) IN ITS APPROPRIATE COLUMN.

REVIEWED BY: NCE SUPERVISOR AD Canally DATE 4/2/81  
QC SUPERVISOR LD White DATE 4/15/81  
AUTHORIZED INSPECTOR S.A. Feltner DATE 4-15-81

INSTALLATION & SERVICE ENGINEERING DIVISION

LASALLE COUNTY NUCLEAR STATION UNIT 1

A. PROCEDURE NO. PP-S751 REV. 7

#### EXAMINATION PERSONNEL:

NAME CA. Hombach LEVEL II

NAME NA LEVEL NA

#### C. PENETRANT MATERIALS:

a. MANUFACTURER MAGNAFLUX-SPOTCHECK

b. PRE-CLEANING SOLVENT TYPE SKC-S BATCH NO. 79C014

c. PENETRANT TYPE SKL-HF /SKL-S BATCH NO. 79B109

d. PENETRANT REMOVER TYPE SKC-S BATCH NO. 79C014

e. DEVELOPER TYPE SKD-S BATCH NO. 79E033

f. POST EXAMINATION CLEANER TYPE SKC-S BATCH NO. 79C014

#### D. PRE-EXAMINATION REQUIREMENTS:

##### a. TEMPERATURE:

1. PENETRANT MATERIALS BETWEEN 60° F & 125° F - YES ☒ NO ☐

2. COMPONENT SURFACE BETWEEN 60° F & 125° F - YES ☒ NO ☐

##### b. SURFACE PREPARATION:

\*1. GRINDING \*2. FLAPPERING \*3. NONE \*4. OTHER

E. DATA: NOTE: All Exam components are ASME Sect. XI Category. CF

LINE NO.	DATE	PRE-CLEAN EVAP. TIME	PEN. DUELL TIME	PEN. REM. EVAP. TIME	DEV. TIME	EXAMINATION COMPONENT I.D. NO.	MAT'L	SURF. PREP. #	RELEVANT INDICATION		ACCEPTABLE		RELEVANT INDICATION LOCATION/SIZE OR COMMENTS
									YES 9	NO 10	YES 11	NO 12	
1	4-6	5	10	5	15	IRH1041-31	CS	2		X	X		
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

NOTE: FOR EACH EXAM COMPONENT ID NO., PLACE THE APPLICABLE NUMBER(s) (1,2,3 etc) IN ITS APPROPRIATE COLUMN.

REVIEWED BY: NCE SUPERVISOR SD Connelly DATE 4/7/81

QC SUPERVISOR LD Wheatley DATE 4/15/81

AUTHORIZED INSPECTOR SA. Feltner DATE 4-15-81

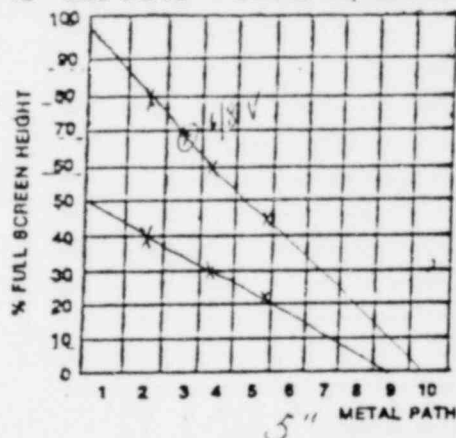


- A. Procedure No. MPUP-5751 REV. 6
- B. Examination Personnel: NAME Ad Connelly LEVEL 2 NAME Ad Connelly LEVEL 1
- C. Instrument: SERIAL NO. 1348 MAKE/MODEL: - BRANSON/3003: ☐ SONIC/MK I; ☒ KK/USL32; ☐ OTHER
- D. Search Unit: BEAM ANGLE/MODE: ☐ STRAIGHT BEAM/LONG WAVE; ☒ 45°/TRANS WAVE; ☐ 60°/TRANS WAVE  
 TRANSDUCER SIZE/FREQ: ☐ 0.25" DIA/2.25 MHz; ☒ 0.5" DIA/2.25 MHz; ☐ 1.0" DIA/2.25 MHz  
 SERIAL NO.: D 05854; ☐ 1.0" DIA/2.25 MHz; ☐ 0.5"x0.5"/2.25 MHz  
 TRANSDUCER TYPE: ☒ CERAMIC SINGLE ELEMENT; ☐ CERAMIC DUAL ELEMENT; ☐ OTHER  
 WEDGE TYPE: ☒ STANDARD WEDGE; ☐ SPECIAL WEDGE/TYPE  
 CALCULATED BEAM ANGLE IN MATERIAL:  $\theta_2 = 45^\circ$
- E. Cable LENGTH: 6 FT. TYPE: ☐ RG-58; ☐ RG-59; ☐ RG-57; ☒ RG-174; ☐ OTHER
- F. Calibration Orientation: CALIBRATION REFERENCE REFLECTOR: ☐ PARALLEL; ☒ TRANSVERSE TO PIPE AXIS  
 FOR DUAL ELEMENT: SPLIT FOR MAXIMUM RESPONSE ☐ PARALLEL; ☐ TRANSVERSE to hole centerline
- G. Calibration Standard: LSCS CAL STD. NO. 01-18-01 THICKNESS .57 DIAMETER 18"  
 MATERIAL: ☒ CARBON; ☐ STAINLESS; ☐ INCONEL; ☐ OTHER
- H. Couplant: ☒ GLYCERINE; ☐ ULTRAGEL II; ☐ OTHER
- I. Comments: +6dB = 6/8 V To 100% DAC

#### J. Dac Curve -- Data

REFLECTOR	PEAK AMP	W1	Wm	W2	MP1	MPm	MP2	HOLE DEPTH
01	02	03	04	05	06	07	08	09
W-T of 4/8 Vee	80%		.58			.80		
W-T of 2/8 Vee	60%		1.16			1.60		
W-T of 1/8 Vee	45%		1.72			2.40		
S-R of 6/8 Vee	100%		.92			1.20		.28
	6dB							

#### K. Dac Curve -- Screen Representation



#### L. Instrument Settings/Checks

CONTROLS	SET	CHECK BOXES							
01	02	03	04	05	06	07	08	09	10
GAIN	42 dB	✓							
SCAN GAIN	50 dB	✓							
SWEEP	2.5/870	✓							
DELAY	757	✓							
FILTER	AUTO	✓							
REP RATE	MED	✓							
DAMPENING	OFF	✓							
RECT	OFF	✓							
OTHER	NA	✓							

#### M. Calibration Time -- Records

DATE	01 ORIG. CAL. TIME	02 CAL. CHECK TIME	03 LAST E.D.S. #	04 LAST E.D.S. LINE #	05 VERIFICATION OF 25°F LIMIT (YES/NO)
1981					
4-3	1245	NA	NA	NA	Yes
4-8	NA	1545	77620	5	Yes
4-8	NA	1545	77621	5	Yes
4-8	NA	1545	77622	8	Yes
4-8	NA	1545	77623	8	Yes

Reviewed By: NDE SUPERVISOR Ad Connelly  
 Q.C. SUPERVISOR Ad Connelly  
 AUTHORIZED INSPECTOR Ad Connelly

DATE 4/9/81  
 DATE 4/28/81  
 DATE 4-29-81



EDS # 77620

CDS # 77619

EXHIBIT 3

ULTRASONIC EXAMINATION DATA SHEET  
LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP 5751 REV. 6

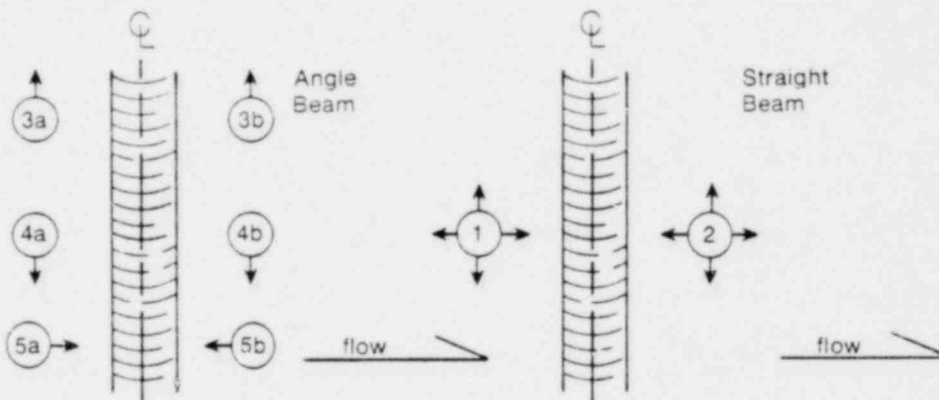
EXAMINATION PERSONNEL:  
NAME LA Homer LEVEL II; NAME SD Connolly LEVEL IT

SEARCH UNIT BEAM ANGLE: 0°: \_\_\_\_\_ 45°: X 60°: \_\_\_\_\_ OTHER \_\_\_\_\_

COUPLANT: GLYCERINE: X ULTRAGEL II: \_\_\_\_\_ OTHER \_\_\_\_\_

SCAN SENSITIVITY: (+) 8 dB

SCAN ORIENTATION



DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/W1	Lm/Wm	L2/W2	MP1	MPm	MP2	SCAN	STAT.	COMMENTS
1981		IRH 1023		100									
4-8	1	7	EP	+6	360 INT	1.0			1.9		5A	E	* FDFS
4-8	2	7	EP	75	300 INT	1.0			2.2		5A	E	* FDFS
4-8	3	7	EP	75	300 INT	1.2			2.6		5A	E	FDCL
4-8	4	IRH 1023	EP	75	360 INT	1.82			2.5		5B	E	FDNS
4-8	5				* STARED INDICATIONS APPEAR INDIVIDUALLY & SIMULTANEOUSLY. POSSIBLE MODE CONVERSION.								

REVIEWED BY: SD Connolly DATE 4/9/81  
NDE SUPERVISOR  
QC SUPERVISOR LQ Whately DATE 4/28/81  
AUTHORIZED INSPECTOR W J Caldwell DATE 4-29-81

LASALLE UNIT 2

$T_E =$  .68

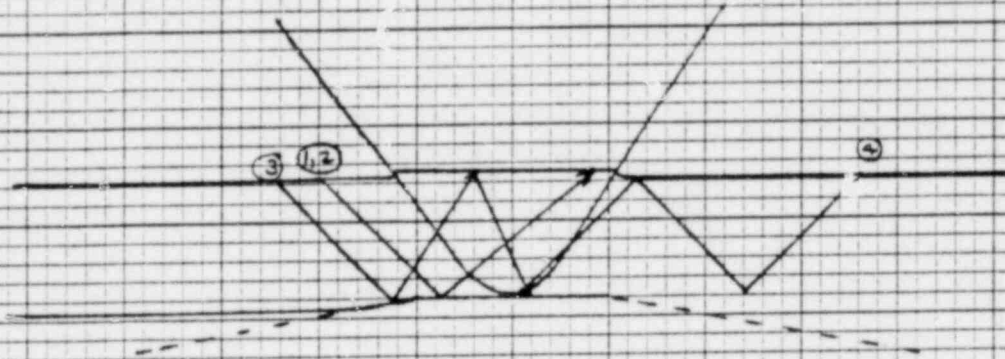
WELD IRH-1023-7

$T_W =$  .68

EDS 77620

$T_P =$  .59

GENERAL  ELECTRIC



LINE	EVALUATION
1,2	OD geometry from weld cap
3,4	ID geometry from weld root

EVALUATED BY L.D. Wheatley  
Level III

DATE 4/28/81

REVIEWED BY W.J. Caldwell  
ANII

DATE 4-29-81

EDS # 77621

CDS # 77619

## EXHIBIT 3

### ULTRASONIC EXAMINATION DATA SHEET

LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. M.P.U.P. 5751 REV. 6

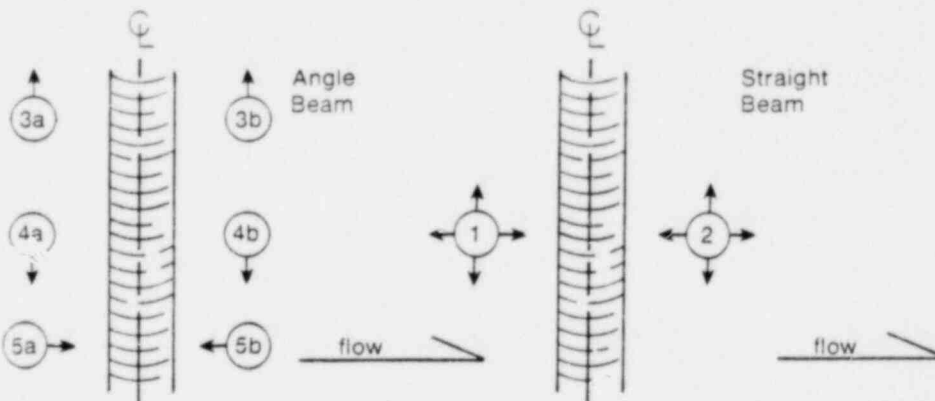
EXAMINATION PERSONNEL  
NAME EA Homer LEVEL II; NAME SD Connelly LEVEL IT

SEARCH UNIT BEAM ANGLE: 0°:        45°: X 60°:        OTHER       

COUPLANT: GLYCERINE: K ULTRAGEL II:        OTHER       

SCAN SENSITIVITY: (+) 8 dB

SCAN ORIENTATION



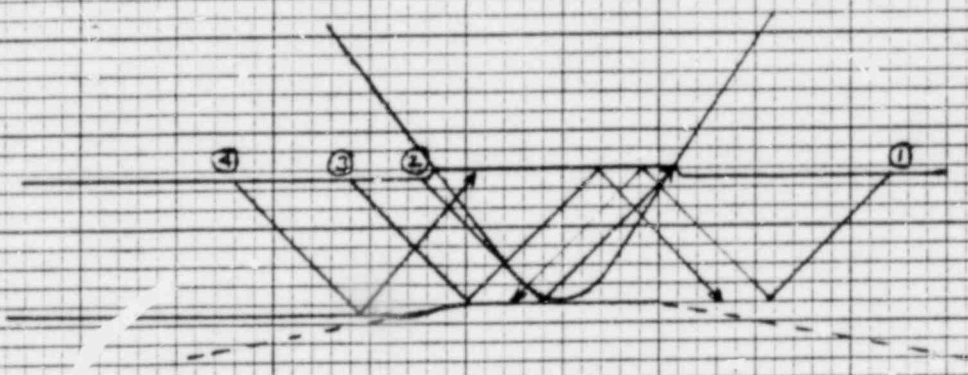
DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/W1	L <sub>n</sub> /W <sub>m</sub>	L2/W2	MP <sub>1</sub>	MP <sub>m</sub>	MP <sub>2</sub>	SCAN	STAT.	COMMENTS
4-8	1	IRH 1041 31	PE	60	360 INT	1.7			2.65		5A	E	FDNS
4-8	2	31	PE	75	360 INT	.75			1.9		5B	E	FDFS
4-8	3	31	PE	90	360 INT	1.1			2.65		5B	E	FDFS
4-8	4	IRH 1041 31	PE	75	360 INT	1.7			2.1		5B	E	FDNS
4-8	5	IRH 1023 4A	PE	100 +2	360 INT	1.0			1.95		5B	E	FDFS

REVIEWED BY: SD Connelly DATE 4/9/81  
NDE SUPERVISOR  
QC SUPERVISOR LD Wheatley DATE 4/28/81  
AUTHORIZED INSPECTOR W J Caldwell DATE 4-29-81

LASALLE UNIT 1  
 WELD 1RH 1041-31  
 EDS 77621

$T_p =$  .61  
 $T_w =$  .68  
 $T =$  .69

GENERAL  ELECTRIC



LINE	EVALUATION
1,3	ID geometry
2,4	OD geometry from weld cap

EVALUATED BY L D Wheatley  
 Level III  
 REVIEWED BY W J Caldwell  
 ANII

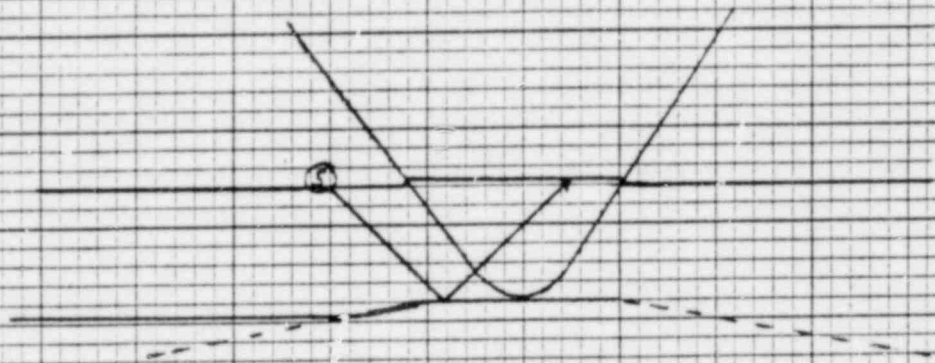
DATE 4/28/81  
 DATE 4-29-81



LASALLE UNIT 1  
 WELD 1RH-1023-4A  
 EDS 77621

$T_p = .59$   
 $T_w = .65$   
 $T_E = .67$

GENERAL  ELECTRIC



LINE	EVALUATION
5	OD geometry from weld cap

EVALUATED BY L.D. Wheatley DATE 4/28/81  
 Level III  
 REVIEWED BY W.J. Caldwell DATE 4-29-81  
 ANII



EDS # 77622

CDS # 77619

## EXHIBIT 3

### ULTRASONIC EXAMINATION DATA SHEET

LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP 5751 REV. 6

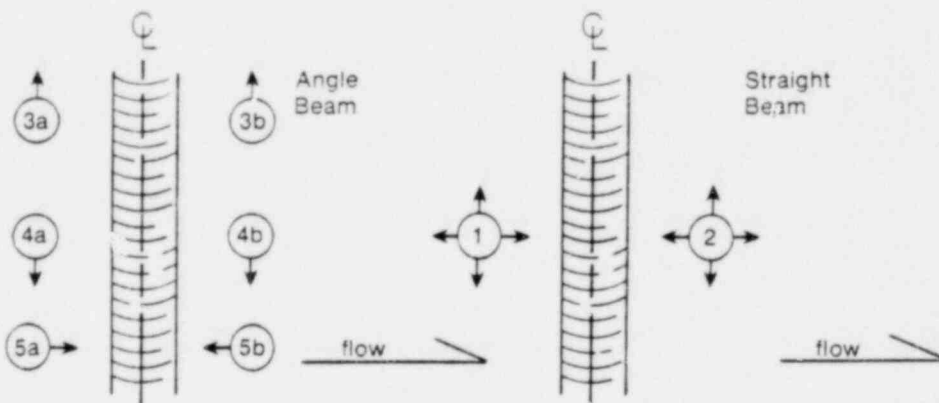
EXAMINATION PERSONNEL:  
NAME Ed Connolly LEVEL II; NAME AD Connolly LEVEL IT

SEARCH UNIT BEAM ANGLE: 0°; X 45°; X 60°; OTHER \_\_\_\_\_

COUPLANT: GLYCERINE: X ULTRAGEL II: \_\_\_\_\_ OTHER \_\_\_\_\_

SCAN SENSITIVITY: (+) 8 dB

SCAN ORIENTATION

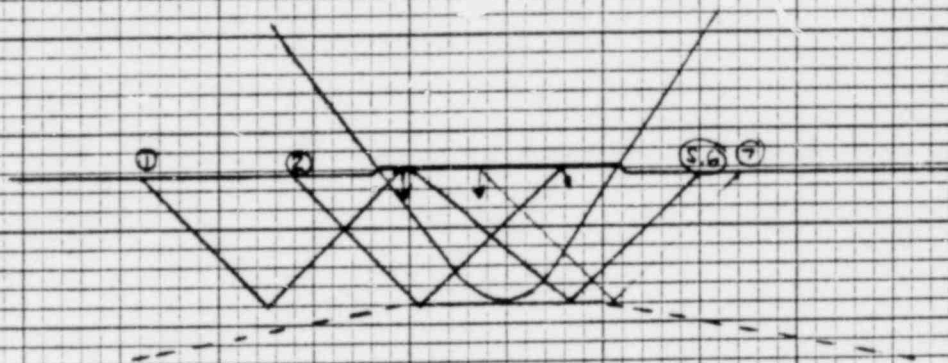


DATE 1981	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/ W1	Lm/ Wm	L2/ W2	MP <sub>1</sub>	MP <sub>m</sub>	MP <sub>2</sub>	SCAN	STAT.	COMMENTS
4-8	1	12H 1023	EP	100	360 INT	1.9			2.6		5B	E	FDNS
4-8	2	2	EP	100	360 INT	1.1			2.3		5B	E	FDFS
4-8	3	2	EP	50	6.9	1.0			1.95		3A	A	FDOD-SPOT ONLY
4-8	4	2	EP	50	7.1	1.0			1.95		3A	A	FDOD-SPOT ONLY
4-8	5	2	EP	100	360 INT	1.0			1.9		5A	E	FDFS
4-8	6	2	EP	75	360 INT	1.0			2.2		5A	E	FDFS
4-8	7	12H 1023	EP	100	360 INT	1.2			2.6		5A	E	FDCL
4-8	8				* STARTED INDICATIONS APPEAR INDIVIDUALLY & SIMULTANEOUSLY. POSSIBLE MODE CONVERSION.								

REVIEWED BY: AD Connolly DATE 4/9/81

QC SUPERVISOR: LW Whetter DATE 4/28/81

AUTHORIZED INSPECTOR: wj Colwell DATE 4-29-81

LASALLE UNIT 1 $T_E = .65$ WELD IRH-1023-2 $T_W = .71$ EDS 77622 $T_D = .62$ GENERAL  ELECTRIC

LINE	EVALUATION
1-6	OD geometry & subsequent mode conversion from weld cap

EVALUATED BY

L D Wheatley  
Level III

DATE

4/28/81

REVIEWED BY

W J Caldwell  
ANII

DATE

4-29-81

EDS # 77623

CDS # 77619

## EXHIBIT 3

### ULTRASONIC EXAMINATION DATA SHEET

LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP S751 REV. 6

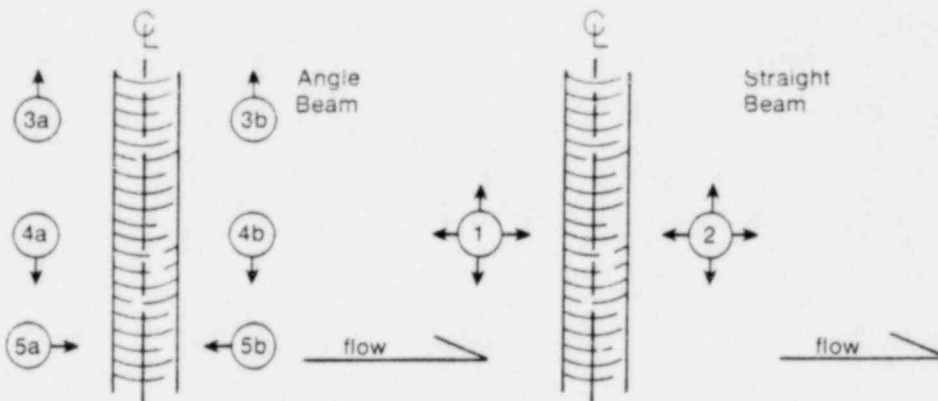
EXAMINATION PERSONNEL:  
NAME W. Homler LEVEL II; NAME J. D. Connolly LEVEL IT

SEARCH UNIT BEAM ANGLE: 0°; 45°; X 60°; OTHER

COUPLANT: GLYCERINE: X ULTRAGEL II: OTHER

SCAN SENSITIVITY: (+) 8 dB

SCAN ORIENTATION

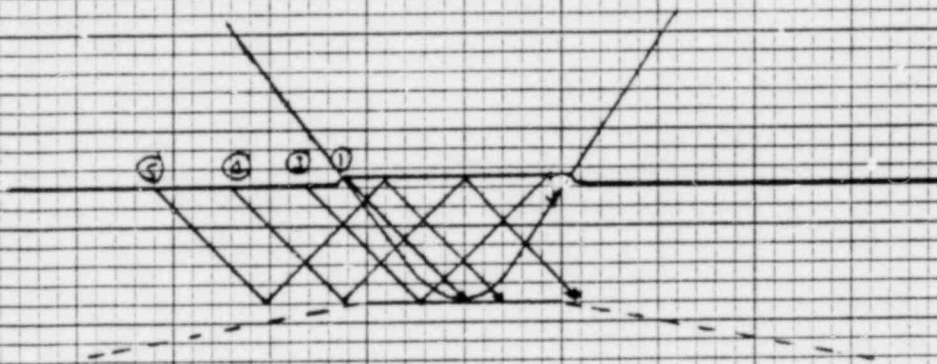


DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/W1	Lm/Wm	L2/W2	MP1	MPm	MP2	SCAN	STAT.	COMMENTS
4-8	1	IRH 1023 14	PE	100	360 INT	.6			1.05		5B	E	
4-8	2	14	PE	100 +4	360 INT	.85			1.7		5B	A	* FDFS
4-8	3	14	PE	60	360 INT	.85			2.05		5B	E	* FDFS
4-8	4	14	PE	75	360 INT	1.3			2.55		5B	E	FDCL
4-8	5	14	PE	100	360 INT	1.6			2.4		5A	E	FDNS
4-8	6	14	PE	50		19.4			1.8		4A	A	FDOD-SPOT ONLY
4-8	7	IRH 1023 14	PE	75		11.6			1.5		4A	A	SPOT ONLY
4-8	8				* STARRED INDICATIONS APPEAR INDIVIDUALLY & SIMULTANEOUSLY POSSIBLE MODE CONVERSION.								

REVIEWED BY: J. D. Connolly DATE 4/9/81

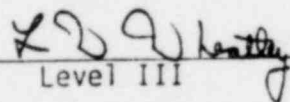
QC SUPERVISOR: L. D. Wheatley DATE 4/28/81

AUTHORIZED INSPECTOR: W. J. Caldwell DATE 4-29-81

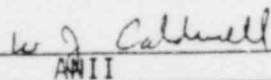
LASALLE UNIT 1 $T_p =$  .57WELD IRH-1023-14 $T_w =$  .67EDS 77623 $T_E =$  .61GENERAL  ELECTRIC

LINE	EVALUATION
1,4,5	ID geometry
3	OD geometry of
3	Made conversion of weld cap

EVALUATED BY

  
 Level III
DATE 4/28/81

REVIEWED BY

  
 AWII
DATE 4-29-81

12/16/80

2F4

## VISUAL EXAMINATION REPORT

LINE NO.	EXAM/COMPONENT I. D. NO.	SYS.	DWG.	SKETCH		DISCONTINUITIES	PHOTO	
				YES	NO		ROLL	FRAME
1	1E51-F063	MS	(IMS-1055)	/	/	NONE		
2	1E51-F008	RI	(IRI-1001)	/	/			
3	1E51-F064 ✓	RI	(IRI-1001)	/	/	Voided per mcco MRD 5446549		
4	1E51-F013	RI	(IRI-1003)	/	/			
5	1E12-F019	RI	(IRI-1003)	/	/			
6	1E51-F065-1	RI	(IRI-1003)	/	/			
7	1E51-F065-2	RH	(IRI-1003)	/	/			
8	1E12-F042B	RH	(IRH-1002)	/	/			
9	1E12-F042A	RH	(IRH-1003)	/	/			
10	1E12-F042C	RH	(IRH-1005)	/	/			
11	1E21-F005	LP	(ILP-1001)	/	/			
12	1E21-F006-1	LP	(ILP-1001)	/	/			
13	1E21-F006-2	LP	(ILP-1001)	/	/			
14	1E21-F006-3	LP	(ILP-1001)	/	/			
15	1E33-F001	RT	(IRT-1001)	/	/	Voided per mcco MRD 5417156		

\* Attached

REVIEWED BY AND LEVEL

Ray Terry, Level 2

Date: 12/17/80

A.N.I.

w/ Caldwell

Date: 1-5-81

PAGE 2 OF 2

REVIEWED BY: L.D. Wheatley, Level 2, 12/22/80  
GENERAL ELECTRIC CO. LEVEL III

NDE Sup. S. Connelly 12/17/80



VISUAL EXAMINATION

Site LA SAILE ☒ Preservice ☐ ISI DATE 5-6-81

Examiner and Level Ray Fung Level 2

Procedure PVI-1S1S1 REV 2 Revision \_\_\_\_\_

I Hangers and Supports Discontinuities

- A. Settings
- B. Misalignment
- C. Broken Members
- D. Gouges
- E. Arc Strikes
- F. Grind Marks
- G. Movement
- H. Evidence of Leakage

II Pipe Welds and Base Material Discontinuities

- A. Ground Blend Areas
- B. Undercuts
- C. Corrosion Buildup
- D. Gouges
- E. Evidence of Leakage
- F. Arc Strikes
- G. Cracks

III Bolts, Studs and Washers Discontinuities

- A. Loose Members
- B. Cracks
- C. Corrosion
- D. Gouges
- E. Thread Damage

IV Pump and Valve Bodies, Casings, Internals Discontinuities

- A. Pitting
- B. Corrosion
- C. Erosion
- D. Foreign Material
- E. Gouges
- F. Wear
- G. Cracks

The Component Classification Number and Discontinuity Letter from above are to be used when completing attachment 2.

VT EXAMINATION DETAILS

☒ Direct Visual; ☐ Remote Visual. Surface Condition SMOOTH

Surface Preparation Methods/Tools Used (if any) \_\_\_\_\_

Illumination Instruments Used FLASH LIGHT

Direct Visual Aides Used N/A

Remote Visual Equipment Used N/A

Ray Ferry Level 2

VISUAL EXAMINATION REPORT

LINE NO.	EXAM/COMPONENT I. D. NO.	SYS.	DWG.	SKETCH		DISCONTINUITIES	PHOTO	
				YES	NO		ROLL	FRAME
1	1B33-F067A		IRR 1002			NONE		
2	1B33-F060A-1					"		
3	1B33-F060A-2					"		
4	1B33-F060A-3					"		
5	1B33-F060A-4		V			"		
6	1B33-F023A		IRR 1003			"		
7	1B33-F067B		IRR 1006			"		
8	1B33-F060B-1		V			"		
9	1B33-F060B-2					"		
10	1B33-F060B-3					"		
11	1B33-F060B-4		V			"		
12	1B33-F023B		IRR 1007			"		
13								
14								
15								

\* Attached

REVIEWED BY AND LEVEL L. D. D. Whately Date: 5/11/81

A.N.I. W. J. Caldwell Date: 5-13-81

NDE Supp  
SD  
5/6/81

*Ray Terry Level 2*

VT DATA SHT# 84520  
5/6/81  
*Page 3 of 3*

VISUAL EXAMINATION REPORT

LINE NO.	EXAM/COMPONENT I. D. NO.	SYS.	DWG.	SKETCH		DISCONTINUITIES	PHOTO	
				YES *	NO		ROLL	FRAME
1	1B21-F010 A-1	IFW 1001			-	DONE		
2	1B21-F010 A-2	IFW 1001			-	DONE		
3	1B21-F010 B-1	IFW 1002			-	DONE		
4	1B21-F010 B-2	IFW 1002			-	DONE		
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

\* Attached

REVIEWED BY AND LEVEL L D D Wheatley Date: 5/11/81

A.N.I. W J Calneel Date: 5-13-81

*NDE Sup  
 SD Connolly  
 5/6/81*

PAGE 2 OF 2

## ULTRASONIC EXAMINATION DATA SHEET

### LASALLE COUNTY STATION UNIT 1

A. Procedure No. MDRP-5751 REV. 4

B. Examination Personnel:  
 NAME Don Walker LEVEL II NAME Justin Schmitz LEVEL II

C. Search Unit Beam Angle ( $\pm 2^\circ$ ): ☐ 0° ☒ 45° ☐ 60° ☐ Other \_\_\_\_\_

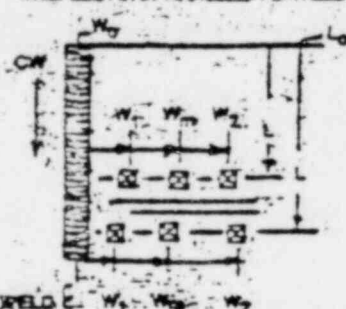
D. Couplant: ☒ Glycerine ☐ Ultragel II ☐ Other \_\_\_\_\_

E. Scan Sensitivity (+): 8 dB

F. Reference System \_\_\_\_\_ G. Scan Orientation \_\_\_\_\_

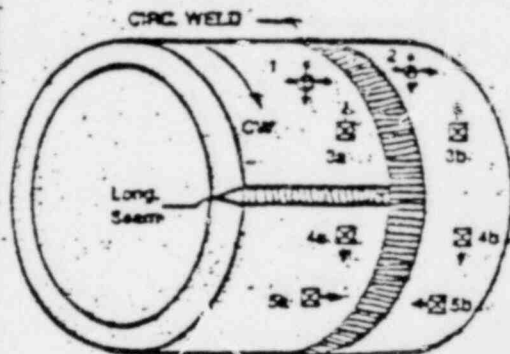
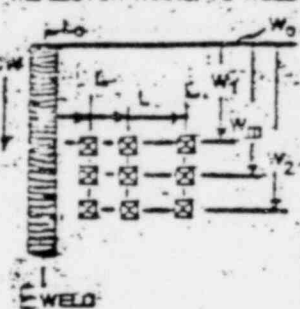
$L_0 = W_1$  Stamp

REFLECTOR PARALLEL TO WELD



$W_0 = W_1$  Stamp

REFLECTOR TRANS TO WELD



TCP (vert.)  
 TWO RPV or  
 FLOW (horiz.)  
 ⊙ : Straight Beam  
 ⊗ : Angle Beam

H. Data: Data on lines 6,7 voided per MCCO MRP 5407056 KWW 4/30/91

00. DATE	01 LINE NO.	02 EXAM/ COMP. I.D. NO.	03 COMP FGL	04 REC. IND. YES/ NO	05 MAX% DAC @ W <sub>m</sub>	06 L <sub>0</sub> W <sub>0</sub>	07 L	08 W <sub>1</sub>	09 W <sub>m</sub>	10 W <sub>2</sub>	11 SRP <sub>1</sub> or MP <sub>1</sub>	12 SRP <sub>m</sub> or MP <sub>m</sub>	13 SRP <sub>2</sub> or MP <sub>2</sub>	14 SCAN	15 Comments (Thickness Meas.)
5-4-79	1	IRN-1003 15	E-D	Yes	50%	100 4	360		1.5			6.0		5A	360 INT ODFD
5-4-79	2	IRN-1003 15	E-D	Yes	50%	100 4	360		1.6			9.9		5A	360 INT
5-4-79	3	IRN-1003 15	E-D	Yes	60%	100 4	360	ON WELD .3				6.0		5A	360 INT ODFD
5-4-79	4	IRN-1003 15	E-D	Yes	100 100	100 4	360	ON WELD .3				6.0		5B	360 INT ODFD
5-4-79	5	IRN-1003 15	E-D	Yes	55%	100 4	360		.3			3.0		5B	360 INT ID
5-4-79	6	IRN-1003 23	P-E	Yes	100%	100 4	360	ON WELD .6				7.0		5A	360 INT FD
5-4-79	7	IRN-1003 23	P-E	Yes	100%	100 4	360	ON WELD .5				6.0		5B	360 INT ID
	8														
	9														

L. Reviewed By: SD Corneley  
 NDE SUPERVISOR

DATE 5/6/79

QC SUPERVISOR: LW Whetter

DATE 5/9/79

3. AUTHORIZED INSPECTOR William J. Caldwell

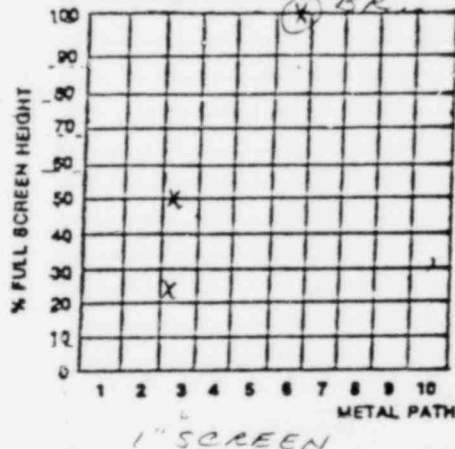
DATE 6-12-79

- A. Procedure No. MPUP-5751 REV. 6
- B. Examination Personnel: NAME J. J. J. J. LEVEL IT NAME J. J. J. J. LEVEL IT
- C. Instrument SERIAL NO. 1348 MAKE/MODEL: - BRANSON/303: ☐ SONIC/MK I; ☒ KK/USL32; ☐ OTHER
- D. Search Unit: BEAM ANGLE/MODE: ☒ STRAIGHT BEAM/LONG WAVE; ☐ 45°/TRANS WAVE; ☐ 60°/TRANS WAVE  
 TRANSDUCER SIZE/FREQ: ☐ 0.25" DIA/2.25 MHz; ☐ 0.5" DIA/2.25 MHz; ☐ 1.0" DIA/2.25 MHz  
 SERIAL NO.: H25831; ☐ 1.0" DIA/2.25 MHz; ☒ 0.5"x0.5"/2.25 MHz  
 TRANSDUCER TYPE: ☐ CERAMIC SINGLE ELEMENT; ☒ CERAMIC DUAL ELEMENT; ☐ OTHER  
 WEDGE TYPE: ☒ STANDARD WEDGE; ☐ SPECIAL WEDGE/TYPE  
 CALCULATED BEAM ANGLE IN MATERIAL:  $\theta_2 = \underline{0}^\circ$
- E. Cable LENGTH: 6 FT. TYPE: ☐ RG-58; ☐ RG-59; ☐ RG-57; ☒ RG-174; ☐ OTHER
- F. Calibration Orientation: CALIBRATION REFERENCE REFLECTOR: ☐ PARALLEL; ☒ TRANSVERSE TO PIPE AXIS  
 FOR DUAL ELEMENT: SPLIT FOR MAXIMUM RESPONSE ☒ PARALLEL; ☐ TRANSVERSE to hole centerline
- G. Calibration Standard: LSCS CAL STD. NO. 01-18-01 THICKNESS .57" DIAMETER 18"  
 MATERIAL: ☒ CARBON; ☐ STAINLESS; ☐ INCONEL; ☐ OTHER
- H. Couplant: ☒ GLYCERINE; ☐ ULTRAGEL II; ☐ OTHER
- I. Comments:

#### J. Dac Curve — Data

RECTOR	PEAK AMP	W1	Wm	W2	MP1	IPm	MP2	HOLE DEPTH
08	01	02	03	04	05	06	07	08
W.T. of 1/8" Vee								
W.T. of 1/8" Vee	50%					.23		.23
W.T. of 1/8" Vee								
B.R. of 1/8" Vee	100%					.57		
	+6							

#### K. Dac Curve — Screen Representation



#### L. Instrument Settings/Checks

CONTROLS	SET	CHECK BOXES							
08	01	02	03	04	05	06	07	08	09
GAIN	2	✓	✓						
SCAN GAIN	40	✓	✓						
SWEEP	5/684	✓	✓						
DELAY	7.46	✓	✓						
FILTER	AUTO	✓	✓						
REP RATE	MED	✓	✓						
COMPENSING	OFF	✓	✓						
JECT...	OFF	✓	✓						
OTHER	NA	✓	✓						

#### M. Calibration Time — Records

1981	01	02	03	04	05
DATE	ORIG. CAL TIME	CAL CHECK TIME	LAST E.D.S. #	LAST E.D.S. LINE #	VERIFICATION OF 25°F LIMIT (YES/NO)
3/27	0845	NA	NA	NA	YES
3/27	NA	1235	92284	2	YES
3/27	NA	1500	92284	4	YES

N. Reviewed By: NDE SUPERVISOR J. J. J. J.  
 Q.C. SUPERVISOR J. J. J. J.  
 AUTHORIZED INSPECTOR J. J. J. J.

DATE 3/30/81  
 DATE 4/13/81  
 DATE 7-15-81



## EXHIBIT 3

### ULTRASONIC EXAMINATION DATA SHEET LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP-5751 REV. 6

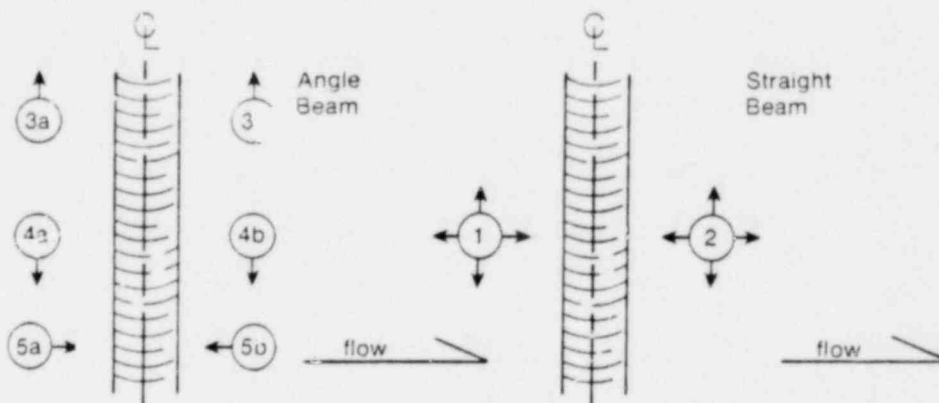
EXAMINATION PERSONNEL:  
NAME Tony Brubaker LEVEL II; NAME J. E. Carey LEVEL IT

SEARCH UNIT BEAM ANGLE: 0°: X 45°:        60°:        OTHER       

COUPLANT: GLYCERINE: X ULTRAGEL II:        OTHER       

SCAN SENSITIVITY: (+) 8 dB

SCAN ORIENTATION



1981 DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/ W1	Lm/ Wm	L2/ W2	MP1	MPm	MP2	SCAN	STAT.	COMMENTS
3-27	1	1RH-1024 4A	P-V		P	W	U	NO SCAN VALUE SIDE				A	
3-27	2	1RH-1023 16	E-P		.61	.74	N/A					A	
3-27	3	9	E-P		.68	.67	.61					A	
3-27	4	8	P-E		.63	.69	.58					A	
					P	W	E						
					.58	.62	.65						

REVIEWED BY: S. O'Connell DATE 3/30/81  
NDE SUPERVISOR  
QC SUPERVISOR L. W. Whittington DATE 4/15/81  
AUTHORIZED INSPECTOR S. J. Feltus DATE 4-15-81

INSTALLATION & SERVICE ENGINEERING DIVISION

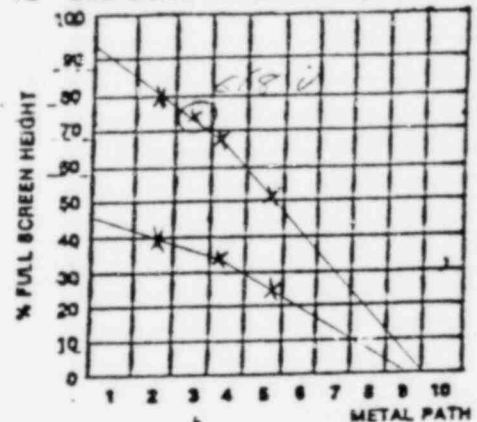
A. Procedure No. MPUP-5751 REV. 6  
 Examination Personnel: NAME J. J. J. J. LEVEL II NAME J. J. J. J. LEVEL IT  
 Instrument SERIAL NO. 339 MAKE/MODEL: - BRANSON/303: ☐ SONIC/MK I: ☐ KX-UL32: ☐ OTHER MPUP  
 B. Search Unit: BEAM ANGLE/MODE: ☐ STRAIGHT BEAM/LONG WAVE: ☒ 45°/TRANS WAVE: ☐ 60°/TRANS WAVE  
 TRANSDUCER SIZE/FREQ: ☐ 0.25" DIA/2.25 MHz: ☒ 0.5" DIA/2.25 MHz: ☐ 1.0" DIA/2.25 MHz  
 SERIAL NO.: D05854; ☐ 1.0" DIA/2.25 MHz: ☒ 0.5"x0.5"/2.25 MHz  
 TRANSDUCER TYPE: ☒ CERAMIC SINGLE ELEMENT ☐ CERAMIC DUAL ELEMENT ☐ OTHER  
 WEDGE TYPE: ☒ STANDARD WEDGE ☐ SPECIAL WEDGE/TYPE  
 CALCULATED BEAM ANGLE IN MATERIAL:  $\theta_2 = 46.4^\circ$

E. Cable LENGTH: 6 FT. TYPE: ☐ RG-58 ☐ RG-59 ☐ RG-57 ☒ RG-174 ☐ OTHER  
 F. Calibration Orientation: CALIBRATION REFERENCE REFLECTOR: ☐ PARALLEL ☒ TRANSVERSE TO PIPE AXIS  
 FOR DUAL ELEMENT: SPLIT FOR MAXIMUM RESPONSE ☐ PARALLEL ☐ TRANSVERSE to hole centerline  
 G. Calibration Standards: LSCS CAL STD. NO. 01-18-01 THICKNESS 5.7" DIAMETER 18"  
 MATERIAL: ☒ CARBON ☐ STAINLESS ☐ INCONEL ☐ OTHER  
 H. Couplant: ☒ GLYCERINE ☐ ULTRAGEL ☐ OTHER  
 I. Comments: +4 dB = 6/8 V TO 100% DAC

### J. Dec Curve — Data

TEST	PEAK AMP dB	W1 dB	Wm dB	W2 dB	MP1 dB	MPm dB	MP2 dB	HOLE DEPTH in
W T or 4/8 V	802		59			79		
W T or 8/8 V	682		1.2			1.61		
W T or 12/8 V	522		1.75			2.41		
B.R. or 1/8 V	1002		93			1.2		2.8

### K. Dec Curve — Screen Representation



### L. Instrument Settings/Checks

CONTROLS	SET	CHECK BOXES
GAIN	60	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
SCAN GAIN	68	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
SWEEP	5/7.06	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
DELAY	1/7.77	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
FILTER	1	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
REP RATE	1000	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
DI. NING	OFF	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
REFLECT	OFF	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
OTHER	NA	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

### M. Calibration Time — Records

1981 DATE	01 ORIG. CAL TIME	02 CAL CHECK TIME	03 LAST E.D.S. #	04 LAST E.D.S. LINE #	05 VERIFICATION OF 25°F LIMIT (YES/NO)
3-27	0900	NA	NA	NA	YES
3-27	NA	1235	92286	7	YES
3-27	NA	1500	92287	6	YES
3-27	NA	1500	92288	8	YES
3-27	NA	1500	92288	2	YES

N. Reviewed By: NDE SUPERVISOR J. J. J. J.  
 Q.C. SUPERVISOR J. J. J. J.  
 AUTHORIZED INSPECTOR J. J. J. J.

DATE 3/30/81  
 DATE 4/30/81  
 DATE 4-30-81

EXHIBIT 3

ULTRASONIC EXAMINATION DATA SHEET

LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP-375-1 REV. 6

EXAMINATION PERSONNEL:  
NAME Larry Anderson LEVEL II; NAME J. E. Brady LEVEL IV

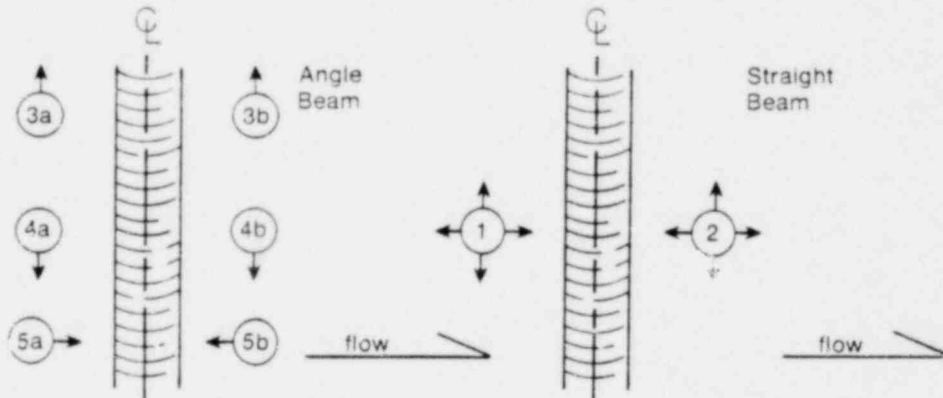
SEARCH UNIT BEAM ANGLE: 0°:      45°: X 60°:      OTHER     

COUPLANT: GLYCERINE: X ULTRAGEL II:      OTHER     

SCAN SENSITIVITY: (+) 8 dB

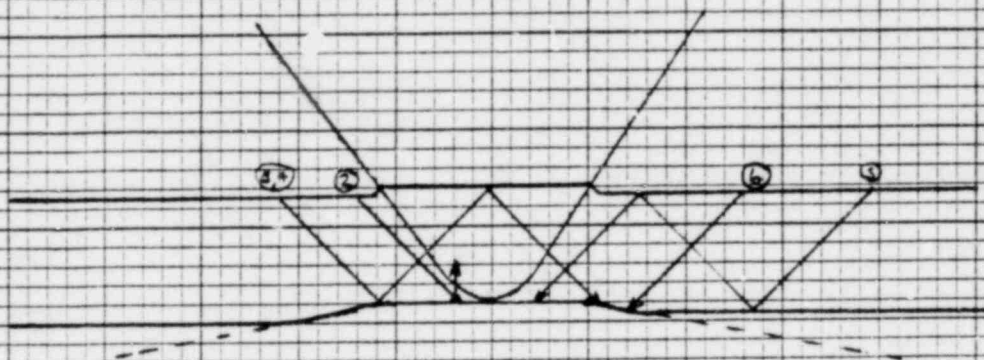
SCAN ORIENTATION

\* - APPEAR SAME  
TIME ON CRT



1981 DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/ W1	Lm/ Wm	L2/ W2	MF1	MPm	MP2	SCAN	STAT.	COMMENTS
3-27	1	1A-1023 8	P-E	100% +4	360	INT	.95		1.81		SB	A	FDFT
3-27	2	8	P-E	80%	360	INT	.7		1.1		SB	E	
3-27	3	8	P-E	100% +6	360	INT	1.1		2.05		SB	E	FDFS *
3-27	4	8	P-E	60%	360	INT	1.1		2.4		SB	E	FDFS *
3-27	5	8	P-E	75%	360	INT	1.95		2.65		SA	E	FDNS
3-27	6	8	P-E	80%	360	INT	1.3		.81		SA	E	
3-27	7	8	P-E	60%	360	INT	1.5		1.4		SA	A	FDNT

REVIEWED BY: W. J. Connelly DATE 3/30/81  
NDE SUPERVISOR  
QC SUPERVISOR L. W. Whately DATE 4/30/81  
AUTHORIZED INSPECTOR W. J. Connelly DATE 4-30-81

LASALLE UNIT 1 $T_p = .58$ WELD 1RH-1023-8 $T_w = .62$ EDS 92286 $T_e = .65$ GENERAL  ELECTRIC

LINE	EVALUATION
2	Made conversion off weld root
3,4	OD geometry from weld cap
3,6	ID geometry from counter bore
5	ID geometry from weld root

EVALUATED BY L D Wheatley  
Level IIIDATE 4/30/81REVIEWED BY W J Caldwell  
ANIIDATE 4-30-81

EXHIBIT 3

ULTRASONIC EXAMINATION DATA SHEET  
LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP-5751 REV. 6

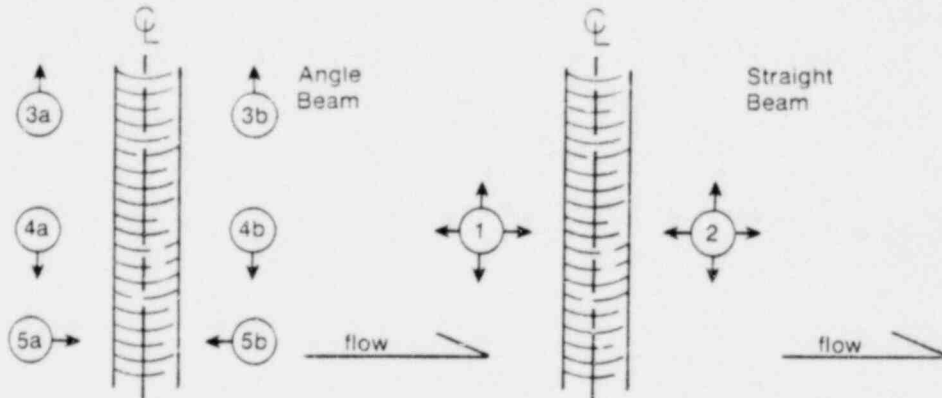
EXAMINATION PERSONNEL:  
NAME Larry R. Ladd LEVEL III; NAME J. E. Ladd LEVEL IV

SEARCH UNIT BEAM ANGLE: 0°: \_\_\_\_\_ 45°: X 60°: \_\_\_\_\_ OTHER \_\_\_\_\_

COUPLANT: GLYCERINE: X ULTRAGEL II: \_\_\_\_\_ OTHER \_\_\_\_\_

SCAN SENSITIVITY: (+) 8 dB

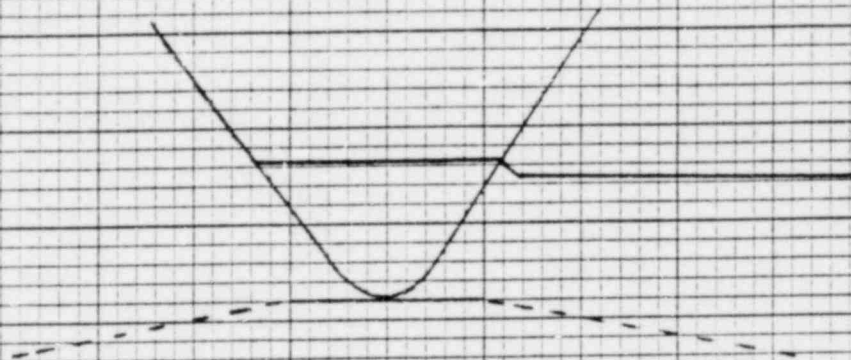
SCAN ORIENTATION



DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/W1	Lm/Wm	L2/W2	MP1	MPm	MP2	SCAN	STAT.	COMMENTS
3-27	1	1RH-1024 4A	P-V		NO	SCAN	VALVE	SIDE					
3-27	2	1RH-1024 4A	P-V	80%	38.6	38.8	39.1	1.65	1.8	1.95	3A	E	FDOD
3-27	3	1RH-1023 9	E-P	75%	360	INT		2.65			5B	E	FDNS
3-27	4	9	E-P	80%	360	INT		1.9			5A	A	FDET
3-27	5	9	E-P	100% +2	360	INT		1.1			5A	E	
3-27	6	9	E-P	55%	360	INT		2.45			5A	E	FDFS

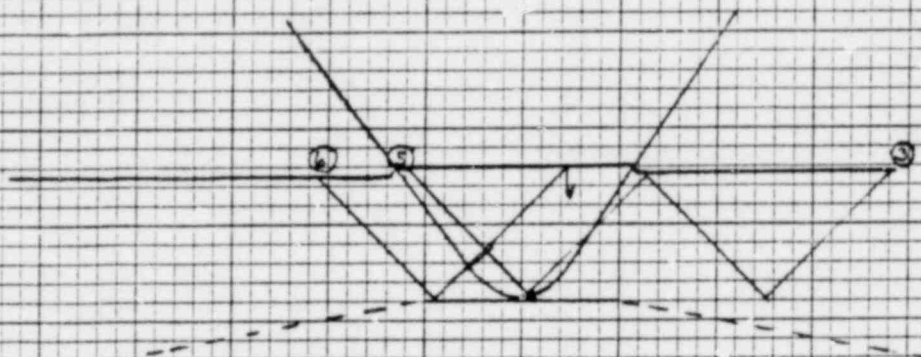
REVIEWED BY: J. D. Connelly DATE 3/30/81  
NDE SUPERVISOR  
QC SUPERVISOR L. D. Wheatley DATE 4/30/81  
AUTHORIZED INSPECTOR w. g. Caldwell DATE 4-30-81



LASALLE UNIT 2 $T_p = .61$ WELD IRH-1024-4A $T_w = .74$ EDS 92287 $T =$ GENERAL  ELECTRIC

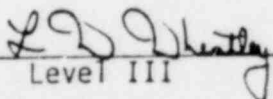
LINE	EVALUATION
2	Based on metal path & the fact that the indication finger clamps, this is probably a localized OD geometric reflector

EVALUATED BY L D Wheatley  
Level IIIDATE 4/30/81REVIEWED BY W J Caldwell  
AMIIDATE 4-30-81

LASALLE UNIT 2 $T_k = .63$ WELD IRH-1023-9 $T_w = .69$ EDS 92287 $T_p = .58$ GENERAL  ELECTRIC

LINE	EVALUATION
3,5	ID geometry from weld root
6	Made conversion off weld cap

EVALUATED BY

  
 Level III
DATE 4/30/81

REVIEWED BY

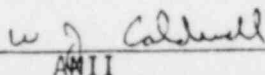
  
 AMII
DATE 4-30-81

EXHIBIT 3

ULTRASONIC EXAMINATION DATA SHEET

LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP-5751 REV. 6

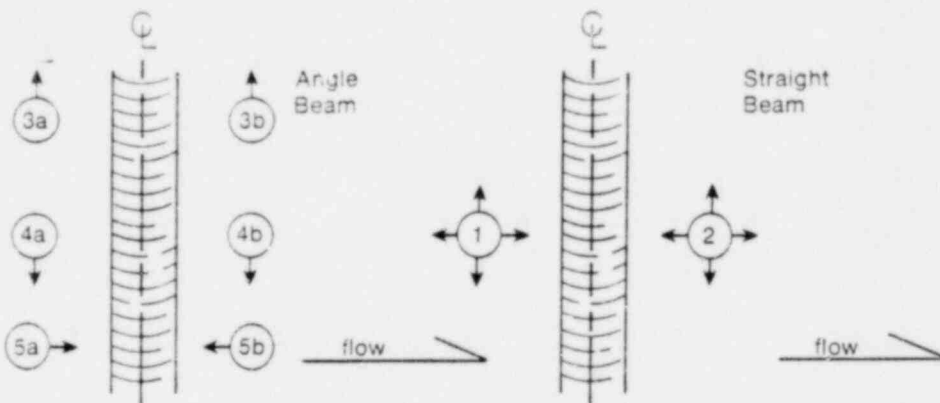
EXAMINATION PERSONNEL:  
NAME Fay Antkowiak LEVEL II; NAME J. J. Kelly LEVEL 10

SEARCH UNIT BEAM ANGLE: 0°; 45°; X 60°; OTHER

COUPLANT: GLYCERINE: X ULTRAGEL II: OTHER

SCAN SENSITIVITY: (+) 8 dB

SCAN ORIENTATION



1981 DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/ W1	Lm/ Wm	L2/ W2	MP <sub>1</sub>	MP <sub>m</sub>	MP <sub>2</sub>	SCAN	STAT.	COMMENTS
		IRH-1023			360	INT							
3-27	1	16	E-P	75%		.9			1.85		5B	A	FDFT
					360	INT							
3-27	2	16	E-P	100%		1.9			2.75		5B	E	FDNS
					360	INT							
3-27	3	16	E-P	55%		1.7			2.45		5B	E	FDNS
					360	INT							
3-27	4	16	E-P	55%		.9			1.75		5A	A	FDFT
					360	INT							
3-27	5	16	E-P	100%		1.0			1.65		5A	A	FDFT
					360	INT							
3-27	6	16	E-P	75%		1.45			2.6		5A	E	FDNS
					35.52	35.3	35.15						
3-27	7	16	E-P	80%	1.2	1.5	1.65	1.7	1.81	1.95	4B	E	FDOD
					37.7	38.0	38.2						
3-27	8	16	E-P	80%	1.4	1.6	2.1	1.75	1.9	2.1	3B	E	FDOD

REVIEWED BY: J. D. Connelly DATE 3/30/81

QC SUPERVISOR: L. D. Wheatley DATE 4/30/81

AUTHORIZED INSPECTOR: W. J. Calhoun DATE 4-30-81

## EXHIBIT 3

### ULTRASONIC EXAMINATION DATA SHEET

LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP-5751 REV. 6

#### EXAMINATION PERSONNEL:

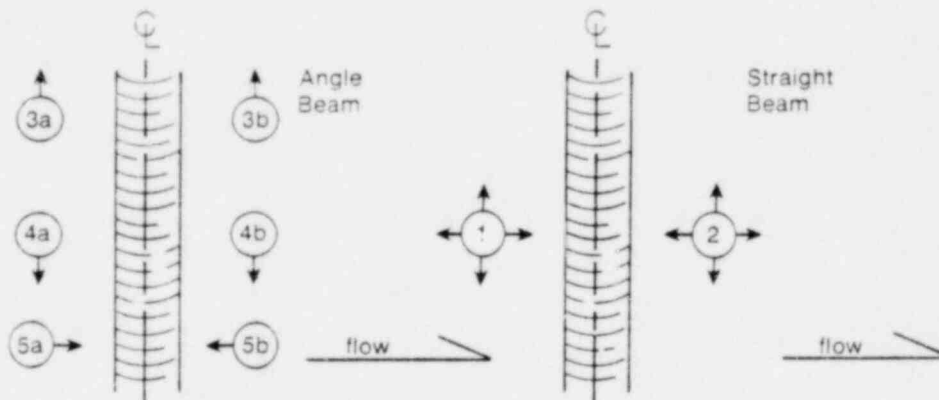
NAME Raymond E. Eddel LEVEL III; NAME J. E. Conroy LEVEL IV

SEARCH UNIT BEAM ANGLE: 0°:        45°: X 60°:        OTHER       

COUPLANT: GLYCERINE: X ULTRAGEL II:        OTHER       

SCAN SENSITIVITY: (+) 8 dB

#### SCAN ORIENTATION



1981 DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L 1/ W 1	L m/ W m	L 2/ W 2	MP <sub>1</sub>	MP <sub>m</sub>	MP <sub>2</sub>	SCAN	STAT.	COMMENTS
3-27	1	1RH-1023 16	E-P	50%		45.5			1.81		4B	E	SPOT ONLY FDOD
3-27	2	16	E-P	60%		48.4			1.81		3B	E	SPOT ONLY FDOD

REVIEWED BY: W. J. Connelly DATE 3/30/81  
 NDE SUPERVISOR: W. J. Connelly DATE 4/30/81  
 QC SUPERVISOR: W. J. Connelly DATE 4-30-81  
 AUTHORIZED INSPECTOR: W. J. Connelly DATE 4-30-81



LASALLE UNIT 2

$T_R = .63$

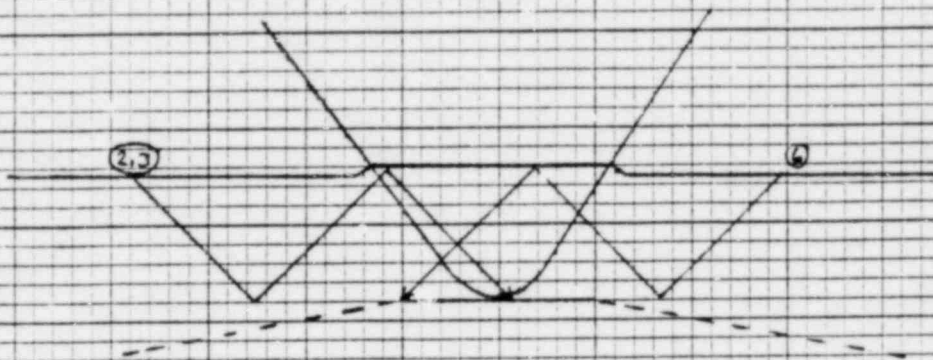
WELD IRH-1023-16

$T_H = .69$

EDS 92288

$T_P = .58$

GENERAL  ELECTRIC



LINE	EVALUATION
2, 3, 6	ID geometry from weld root & counter bore
7, 8, 12	Based on metal path & the fact, the indication finger clamps these are from a localized OD geometry

EVALUATED BY

R. W. Wheatley  
Level III

DATE

4/30/81

REVIEWED BY

W. J. Caldwell  
ANII

DATE

4-30-81

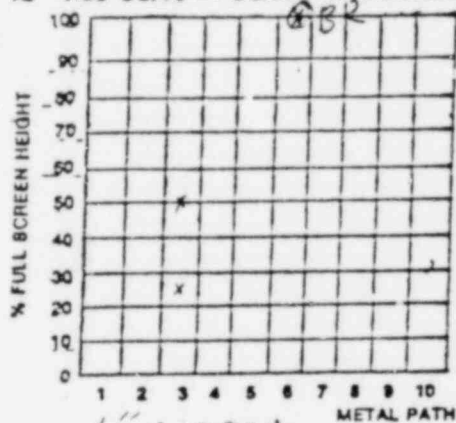


- A. Procedure No. MPUP-5751 REV. 6
- B. Examination Personnel: NAME John A. List LEVEL III NAME J. A. List LEVEL IV
- C. Instrument: SERIAL NO. 551 MAKE/MODEL: - BRANSON/303: ☐ SONIC/MK I; ☒ KX/USL32; ☐ OTHER
- D. Search Unit: BEAM ANGLE/MODE: ☒ STRAIGHT BEAM/LONG WAVE; ☐ 45°/TRANS WAVE; ☐ 60°/TRANS WAVE  
 TRANSDUCER SIZE/FREQ: ☐ 0.25" DIA/2.25 MHz; ☐ 0.5" DIA/2.25 MHz; ☐ 1.0" DIA/2.25 MHz  
 SERIAL NO.: 425831; ☐ 1.0" DIA/2.25 MHz; ☒ 0.5"x0.5"/2.25 MHz  
 TRANSDUCER TYPE: ☐ CERAMIC SINGLE ELEMENT; ☒ CERAMIC DUAL ELEMENT; ☐ OTHER  
 WEDGE TYPE: ☒ STANDARD WEDGE; ☐ SPECIAL WEDGE/TYPE  
 CALCULATED BEAM ANGLE IN MATERIAL:  $\theta_2 =$  C
- E. Cable: LENGTH: 6 FT. TYPE: ☐ RG-58; ☐ RG-59; ☐ RG-57; ☒ RG-174; ☐ OTHER
- F. Calibration Orientation: CALIBRATION REFERENCE REFLECTOR: ☐ PARALLEL; ☒ TRANSVERSE TO PIPE AXIS  
 FOR DUAL ELEMENT: SPLIT FOR MAXIMUM RESPONSE ☒ PARALLEL; ☐ TRANSVERSE to hole centerline
- G. Calibration Standard: LSCS CAL STD. NO. C1-18-01 THICKNESS .57 DIAMETER 1.5"  
 MATERIAL: ☒ CARBON; ☐ STAINLESS; ☐ INCONEL; ☐ OTHER
- H. Couplant: ☒ GLYCERINE; ☐ ULTRAGEL II; ☐ OTHER
- I. Comments:

#### J. Doc Curve - Data

LECTOR	PEAK AMP	W1	Wm	W2	MP1	MPm	MP2	HOLE DEPTH
08	21	08	03	04	05	06	07	08
W.T. or T.V. or								
W.T. or T.V. or	508					.24		.24
W.T. or T.V. or								
S.R. or T.V. or	100.2					.57		
	806							

#### K. Doc Curve - Screen Representation



#### L. Instrument Settings/Checks

CONTROLS	SET	CHECK BOXES							
08	01	02	03	04	05	06	07	08	09
GAIN	32	✓							
SCAN GAIN	40	✓							
SWEEP	675	✓							
DELAY	753	✓							
FILTER	AUTO	✓							
REP RATE	HED	✓							
COMPENSATION	OFF	✓							
EJECT	OFF	✓							
OTHER	NA	✓							

#### M. Calibration Time - Records

DATE	01 ORIG. CAL TIME	02 CAL CHECK TIME	03 LAST E.D.S. #	04 LAST E.D.S. LINE #	05 VERIFICATION OF 25°F LIMIT (YES/NO)
1981					
4-8	0855	NA	NA	NA	YES
4-8	NA	1135	92290	5	YES

N. Reviewed By: NDE SUPERVISOR D. Connelly  
 Q.C. SUPERVISOR [Signature]  
 AUTHORIZED INSPECTOR [Signature]

DATE 4/9/81  
 DATE 4/5/81  
 DATE 4-15-81

## EXHIBIT 3

### ULTRASONIC EXAMINATION DATA SHEET

LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP-5751 REV. 6

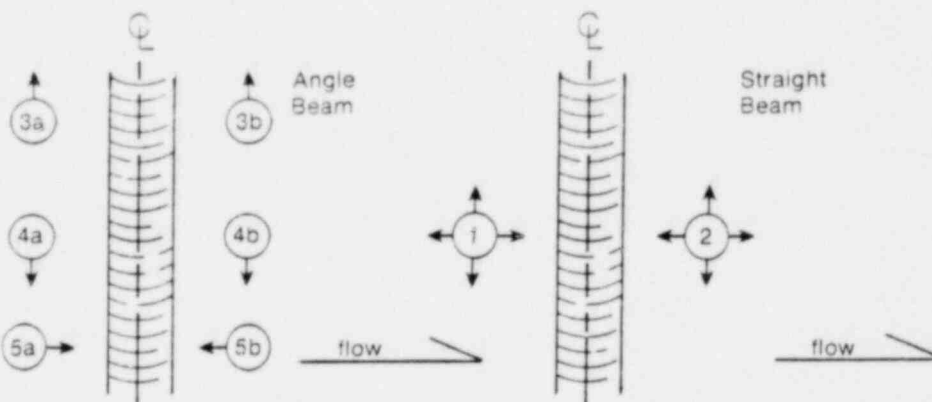
EXAMINATION PERSONNEL:  
NAME Gregory A. Luchini LEVEL II; NAME J. E. Luchini LEVEL IT

SEARCH UNIT BEAM ANGLE: 0°: X 45°:        60°:        OTHER       

COUPLANT: GLYCERINE: X ULTRAGEL II:        OTHER       

SCAN SENSITIVITY: (+) 8 dB

SCAN ORIENTATION



DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/W1	Lm/Wm	L2/W2	MP1	MPm	MP2	SCAN	STAT.	COMMENTS
4-8	1	1RA-1041 31	P-E		P	W	E					A	
4-8	2	1RA-1023 2	E-P		E	W	P					A	
4-8	3	4A	P-E		P	W	E					A	
4-8	4	7	E-P		E	W	P					A	
4-8	5	14	P-E		P	W	E					A	

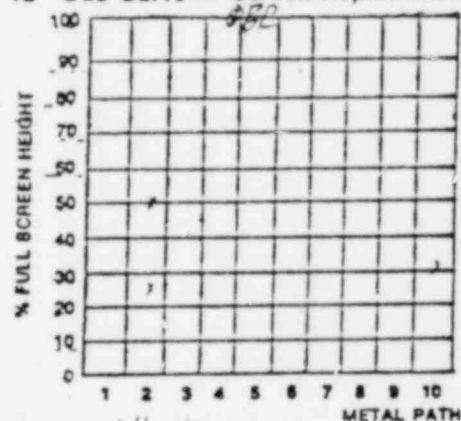
REVIEWED BY: AD Connolly DATE 4/9/81  
NDE SUPERVISOR  
QC SUPERVISOR 200 Whitten DATE 4/15/81  
AUTHORIZED INSPECTOR S. J. Feltner DATE 4-15-81

- A. Procedure No. MPUP-5751 REV. 6
- B. Examination Personnel: NAME J. J. Connelly LEVEL IT NAME J. J. Connelly LEVEL IT
- C. Instrument: SERIAL NO. 521 MAKE/MODEL: - BRANSON/303: ☐ SONIC/MK I: ☒ KX7USL32: ☐ OTHER
- D. Search Unit: BEAM ANGLE/MODE: ☒ STRAIGHT BEAM/LONG WAVE: ☐ 45°/TRANS WAVE: ☐ 60°/TRANS WAVE  
 TRANSDUCER SIZE/FREQ: ☐ 0.25" DIA/2.25 MHz: ☐ 0.5" DIA/2.25 MHz: ☐ 1.0" DIA/2.25 MHz  
 SERIAL NO.: A22010: ☐ 1.0" DIA/2.25 MHz: ☒ 0.5"x0.5"/2.25 MHz  
 TRANSDUCER TYPE: ☐ CERAMIC SINGLE ELEMENT ☒ CERAMIC DUAL ELEMENT ☐ OTHER  
 WEDGE TYPE: ☒ STANDARD WEDGE ☐ SPECIAL WEDGE/TYPE  
 CALCULATED BEAM ANGLE IN MATERIAL:  $\theta_2 =$  0.1
- E. Cable LENGTH: 6 FT. TYPE: ☐ RG-58 ☐ RG-59 ☐ RG-57 ☒ RG-174 ☐ OTHER
- F. Calibration Orientation: CALIBRATION REFERENCE REFLECTOR: ☐ PARALLEL ☒ TRANSVERSE TO PIPE AXIS  
 FOR DUAL ELEMENT: SPLIT FOR MAXIMUM RESPONSE ☒ PARALLEL ☐ TRANSVERSE to hole centerline
- G. Calibration Standards: LSCS CAL STD. NO. C1-18-C5 THICKNESS .38 DIAMETER 18"  
 MATERIAL: ☒ CARBON ☐ STAINLESS ☐ INCONEL ☐ OTHER
- H. Couplant: ☒ GLYCERINE ☐ ULTRAGEL II ☐ OTHER
- I. Comments:

#### J. Dac Curve — Data

ECTOR	PEAK AMP	W1	Wm	W2	MP1	MPm	MP2	HOLE DEPTH
DE	RT	DE	DE	DE	DE	DE	DE	DE
W.T. or T.B. Vee								
W.T. or T.B. Vee	50%					16		16
W.T. or T.B. Vee								
B.R. or T.B. Vee	100%					38		
	12							

#### K. Dac Curve — Screen Representation



#### L. Instrument Settings/Checks

CONTROLS	SET	CHECK BOXES							
DE	DE	02	03	04	05	06	07	08	09
GAIN	48								
SCAN GAIN	56								
SWEEP	1/671								
DELAY	751								
FILTER	AUTO								
REP RATE	MED								
DAMPENING	OFF								
GT	OFF								
OTHER	NA								

#### M. Calibration Time — Records

DATE	01 ORIG. CAL TIME	02 CAL CHECK TIME	03 LAST E.D.S. #	04 LAST E.D.S. LINE #	05 VERIFICATION OF 25°F LIMIT (YES/NO)
4-9	0910	NA	NA	NA	YES
4-9	NA	1130	92292	1	YES

N. Reviewed By: NDE SUPERVISOR J. J. Connelly  
 Q.C. SUPERVISOR J. J. Connelly  
 AUTHORIZED INSPECTOR J. J. Connelly

DATE 4/10/81  
 DATE 4/15/81  
 DATE 4-15-81

EXHIBIT 3

ULTRASONIC EXAMINATION DATA SHEET  
LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP-575-1 REV. 6

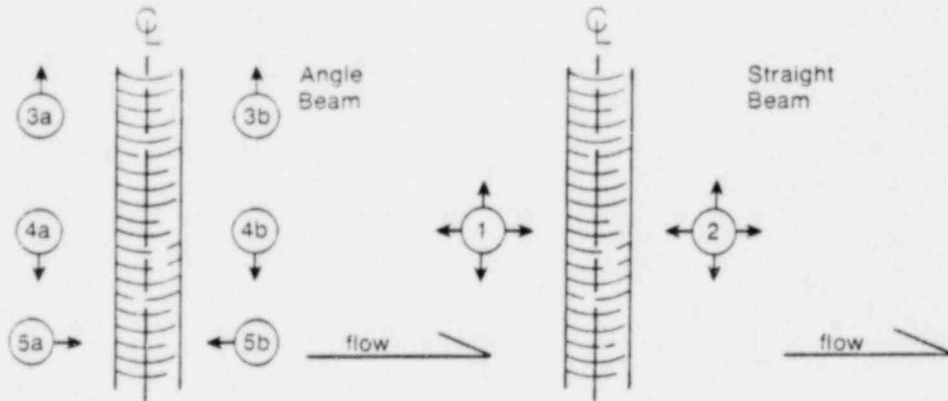
EXAMINATION PERSONNEL:  
NAME Tony M. ... LEVEL II; NAME J. ... LEVEL IT

SEARCH UNIT BEAM ANGLE: 0°: X 45°:      60°:      OTHER     

COUPLANT: GLYCERINE: X ULTRAGEL II:      OTHER     

SCAN SENSITIVITY: (+) 8 dB

SCAN ORIENTATION



1981 DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/ W1	Lm/ Wm	L2/ W2	MP1	MPm	MP2	SCAN	STAT.	COMMENTS
4-9	1	IRH-1024 4B	V-P		V N/A	W .58	P .37	NO SIDE	SCAN VALUE			A	

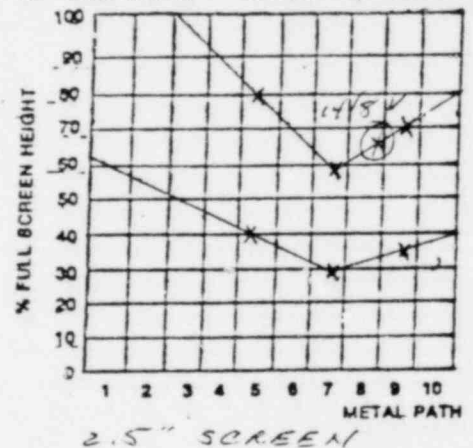
REVIEWED BY: AD Connelly DATE 4/10/81  
NDE SUPERVISOR  
QC SUPERVISOR LD Wheatley DATE 4/15/81  
AUTHORIZED INSPECTOR S.T. Feltner DATE 4-15-81

- A. Procedure No. MPUP-5751 REV. 6
- B. Examination Personnel: NAME Robert LEVEL II NAME Elmer LEVEL IT
- C. Instrument: SERIAL NO. 1348 MAKE/MODEL: - BRANSON/303: ☐ SONIC/MK I; ☒ KXUS-32; ☐ OTHER
- D. Search Unit: BEAM ANGLE/MODE: ☐ STRAIGHT BEAM/LONG WAVE; ☒ 45°/TRANS WAVE; ☐ 60°/TRANS WAVE  
 TRANSDUCER SIZE/FREQ: ☐ 0.25" DIA/2.25 MHz; ☒ 0.5" DIA/2.25 MHz; ☐ 1.0" DIA/2.25 MHz  
 SERIAL NO.: 407944; ☐ 1.0" DIA/2.25 MHz; ☒ 0.5"x0.5"/2.25 MHz  
 TRANSDUCER TYPE: ☒ CERAMIC SINGLE ELEMENT; ☐ CERAMIC DUAL ELEMENT; ☐ OTHER  
 WEDGE TYPE: ☒ STANDARD WEDGE; ☐ SPECIAL WEDGE/TYPE  
 CALCULATED BEAM ANGLE IN MATERIAL:  $\theta_2 = \underline{44.2}^\circ$
- E. Cable LENGTH: 6 FT. TYPE: ☐ RG-58; ☐ RG-59; ☐ RG-57; ☒ RG-174; ☐ OTHER
- F. Calibration Orientation: CALIBRATION REFERENCE REFLECTOR: ☐ PARALLEL; ☒ TRANSVERSE TO PIPE AXIS  
 FOR DUAL ELEMENT: SPLIT FOR MAXIMUM RESPONSE ☐ PARALLEL; ☐ TRANSVERSE to hole centerline
- G. Calibration Standard: LSCS CAL STD. NO. 01-18-05 THICKNESS .38" DIAMETER 18"  
 MATERIAL: ☒ CARBON; ☐ STAINLESS; ☐ INCONEL; ☐ OTHER
- H. Couplant: ☒ GLYCERINE; ☐ ULTRAGEL II; ☐ OTHER
- I. Comments: + 8 dB = 14/8 V TO 100% DAC

#### J. Dec Curve — Data

ECTOR DE	PEAK AMP RT	W1 02	Wm 03	W2 04	MP1 05	MPm 06	MPz 07	SOLE DEPTH 08
W.T. of 5/8 Vee	80%		.82			1.1		
W.T. of 12/8 Vee	59%		1.22			1.65		
W.T. of 16/8 Vee	70%		1.61			2.15		
B.R. of 14/8 Vee	100%	+8	1.42			1.9		.18

#### K. Dec Curve — Screen Representation



#### L. Instrument Settings/Checks

CONTROLS 00	SET 01	CHECK BOXES 02 03 04 05 06 07 08 09							
GAIN	46	/							
SCAN GAIN	54	/							
SWEEP	2.5/5-87	/							
DELAY	756	/							
FILTER	AUTO	/							
REP RATE	MED	/							
DAMPENING	OFF	/							
CGT	OFF	/							
OTHER	NA	/							

#### M. Calibration Time — Records

1981 DATE	01 ORIG. CAL TIME	02 CAL CHECK TIME	03 LAST E.D.S. #	04 LAST E.D.S. LINE #	05 VERIFICATION OF 25°F LIMIT (YES/NO)
4-10	0925	NA	NA	NA	YES
4-10	NA	1115	92294	1	YES

N. Reviewed By: NDE SUPERVISOR SP Connelly  
 Q.C. SUPERVISOR W. J. Connelly  
 AUTHORIZED INSPECTOR W. J. Connelly

DATE 4/13/81  
 DATE 4/13/81  
 DATE 4-15-81



EDS # 92294

CDS # 92293

## EXHIBIT 3

### ULTRASONIC EXAMINATION DATA SHEET LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP-5751 REV. 6

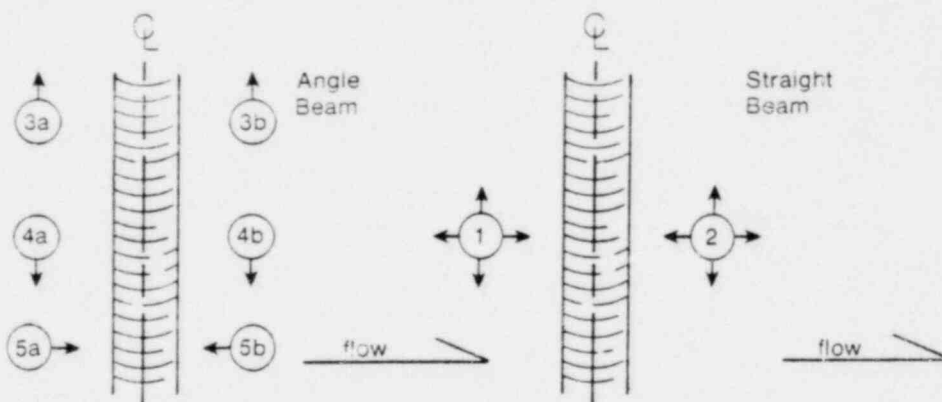
EXAMINATION PERSONNEL:  
NAME Paul Antkowiak LEVEL II; NAME J. J. [unclear] LEVEL IT

SEARCH UNIT BEAM ANGLE: 0°; 45°; 60°; OTHER         

COUPLANT: GLYCERINE: X ULTRAGEL II:          OTHER         

SCAN SENSITIVITY: (+) 8 dB

SCAN ORIENTATION



1981 DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/ W1	Lm/ Wm	L2/ W2	MP1	MPm	MP2	SCAN	STAT.	COMMENTS
4-10	1	IRH-1024 4B	V-P		NO SCAN VALUE			SIDE				A	

REVIEWED BY: [Signature] DATE 4/13/81  
NDE SUPERVISOR  
QC SUPERVISOR [Signature] DATE 4/15/81  
AUTHORIZED INSPECTOR [Signature] DATE 4-15-81

A. PROCEDURE NO. PP-5751 REV. 7

## EXAMINATION PERSONNEL:

NAME Long, Michael LEVEL IINAME J. J. [unclear] LEVEL II

## C. PENETRANT MATERIALS:

a. MANUFACTURER MAGNAFLUX-SPOTCHECK

b. PRE-CLEANING SOLVENT TYPE SKC-S BATCH NO. 79C014

c. PENETRANT TYPE SKL-HF /SKL-S BATCH NO. 79B109

d. PENETRANT REMOVER TYPE SKC-S BATCH NO. 79C014

e. DEVELOPER TYPE SKD-S BATCH NO. 79E033

f. POST EXAMINATION CLEANER TYPE SKC-S BATCH NO. 79C014

## D. PRE-EXAMINATION REQUIREMENTS:

## a. TEMPERATURE:

1. PENETRANT MATERIALS BETWEEN 60° F & 125° F - YES ☒ NO ☐

2. COMPONENT SURFACE BETWEEN 60° F & 125° F - YES ☒ NO ☐

## b. SURFACE PREPARATION:

\*1. GRINDING \*2. FLAPPERING \*3. NONE \*4. OTHER

E. DATA: NOTE: All Exam components are ASME Sect. XI Category. C-F

LINE NO.	DATE	02 PRE-CLEAN EVAP. TIME	03 PEN. DWELL TIME	04 PEN. REM. EVAP. TIME	05 DEV. TIME	06 EXAMINATION COMPONENT I.D. NO.	07 MAT'L	08 SURF. PREP. *	RELEVANT INDICATION		ACCEPTABLE		RELEVANT INDICATION LOCATION/SIZE OR COMMENTS
									YES 09	NO 10	YES 11	NO 12	
1	4-28	5	10	5	15	IRH-1008-23	CS	2		X	X		
2	4-28	5	10	5	15	IRH-1023-4A	CS	2		X	X		INSPECT 5" EACH SIDE TDC - REPAIR AREA
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

NOTE: FOR EACH EXAM COMPONENT ID NO., PLACE THE APPLICABLE NUMBER(S) (1,2,3 etc) IN ITS APPROPRIATE COLUMN.

REVIEWED BY: NCE SUPERVISOR

SD ConnellyDATE 4/29/81

QC SUPERVISOR

L. D. WheatleyDATE 5/1/81

AUTHORIZED INSPECTOR

W. J. CaldwellDATE 5-11-81

A. PROCEDURE NO. PP-S751 REV. 7

B. EXAMINATION PERSONNEL:

NAME J. E. [Signature] LEVEL II  
NAME NA LEVEL NA

C. PENETRANT MATERIALS:

a. MANUFACTURER MAGNAFLUX-SPOTCHECK  
b. PRE-CLEANING SOLVENT TYPE SKC-S BATCH NO. 79C014  
c. PENETRANT TYPE SKL-HF /SKL-S BATCH NO. 79B109  
d. PENETRANT REMOVER TYPE SKC-S BATCH NO. 79C014  
e. DEVELOPER TYPE SKD-S BATCH NO. 79E033  
f. POST EXAMINATION CLEANER TYPE SKC-S BATCH NO. 79C014

D. PRE-EXAMINATION REQUIREMENTS:

a. TEMPERATURE:

1. PENETRANT MATERIALS BETWEEN 60° F & 125° F - YES ☒ NO ☐  
2. COMPONENT SURFACE BETWEEN 60° F & 125° F - YES ☒ NO ☐

b. SURFACE PREPARATION:

\*1. GRINDING \*2. FLAPPERING \*3. NONE \*4. OTHER

E. DATA: NOTE: All Exam components are ASME Sect. XI Category. C-E-1

LINE NO.	DATE	PRE-CLEAN TIME	PEN. DWELL TIME	PEN. REM. EVAP. TIME	DEV. TIME	EXAMINATION COMPONENT I.D. NO.	MAT'L	SURF. PREP. *	RELEVANT INDICATION		ACCEPTABLE		RELEVANT INDICATION LOCATION/SIZE OR COMMENTS
									YES 09	NO 10	YES 11	NO 12	
1	4-29	5	10	5	15	1R11-1024-5	CS	2		X	X		
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

NOTE: FOR EACH EXAM COMPONENT ID NO., PLACE THE APPLICABLE NUMBER(S) (1,2,3 etc) IN ITS APPROPRIATE COLUMN.

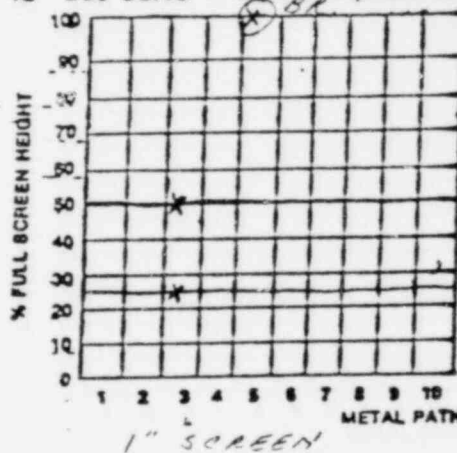
REVIEWED BY: NDE SUPERVISOR [Signature] DATE 4/30/81  
QC SUPERVISOR [Signature] DATE 5/1/81  
AUTHORIZED INSPECTOR [Signature] DATE 5-11-81

- A. Procedure No. MPUP-5751 REV. 6
- B. Examination Personnel: NAME J. [unclear] LEVEL II NAME M.E. Williams LEVEL IT
- C. Instrument: SERIAL NO. 1348 MAKE/MODEL: - BRANSON/303: ☐ SONIC/MK I: ☒ KK/USL32: ☐ OTHER
- D. Search Unit: BEAM ANGLE/MODE: ☒ STRAIGHT BEAM/LONG WAVE: ☐ 45°/TRANS WAVE: ☐ 60°/TRANS WAVE  
 TRANSDUCER SIZE/FREQ: ☐ 0.25" DIA/2.25 MHz: ☐ 0.5" DIA/2.25 MHz: ☐ 1.0" DIA/2.25 MHz  
 SERIAL NO.: A22010 ☐ 1.0" DIA/2.25 MHz: ☒ 0.5"x0.5"/2.25 MHz  
 TRANSDUCER TYPE: ☐ CERAMIC SINGLE ELEMENT ☒ CERAMIC DUAL ELEMENT ☐ OTHER  
 WEDGE TYPE: ☒ STANDARD WEDGE ☐ SPECIAL WEDGE/TYPE  
 CALCULATED BEAM ANGLE IN MATERIAL:  $\theta_2 = 0^\circ$
- E. Cable: LENGTH 6 FT. TYPE: ☐ RG-58 ☐ RG-59 ☐ RG-57 ☒ RG-174 ☐ OTHER
- F. Calibration Orientation: CALIBRATION REFERENCE REFLECTOR: ☐ PARALLEL ☒ TRANSVERSE TO PIPE AXIS  
 FOR DUAL ELEMENT: SPLIT FOR MAXIMUM RESPONSE ☒ PARALLEL ☐ TRANSVERSE to hole center
- G. Calibration Standard: LSCS CAL STD. NO. 01-12-01 THICKNESS .42 DIAMETER 12"  
 MATERIAL: ☒ CARBON ☐ STAINLESS ☐ INCONEL ☐ OTHER
- H. Couplant: ☒ GLYCERINE ☐ ULTRAGEL II ☐ OTHER
- I. Comments:

#### J. Dac Curve — Data

REFLECTOR	PEAK AMP	W1	Wm	W2	MP1	MPm	MP2	HOLE DEPTH
1/4 T. or 1/8 Vee								
1/4 T. or 1/8 Vee	50?					.23		.23
1/4 T. or 1/8 Vee								
B.P. or 1/8 Vee	100?					.42		

#### K. Dac Curve — Screen Representation



#### L. Instrument Settings/Checks

CONTROLS	SET	CHECK BOXES						
		01	02	03	04	05	06	07
GAIN	36	/						
SCAN GAIN	44	/						
SWEEP	5/685	/						
DELAY	7.52	/						
FILTER	AUTO	/						
REP RATE	MED	/						
OPENING	OFF	/						
JECT	OFF	/						
OTHER	NA	/						

#### M. Calibration Time — Records

DATE	01 ORIG. CAL TIME	02 CAL CHECK TIME	03 LAST E.D.S. #	04 LAST E.D.S. LINE #	05 VERIFICATION OF 25°F LIMIT (YES/NO)
1981					
4-29	0900	NA	NA	NA	YES
4-29	NA	1135	92402	1	YES

N. Reviewed By: NDE SUPERVISOR [Signature]  
 Q.C. SUPERVISOR [Signature]  
 AUTHORIZED INSPECTOR [Signature]

DATE 4/30/81  
 DATE 5/1/81  
 DATE 5-11-81

## EXHIBIT 3

### ULTRASONIC EXAMINATION DATA SHEET LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP-S751 REV. 6

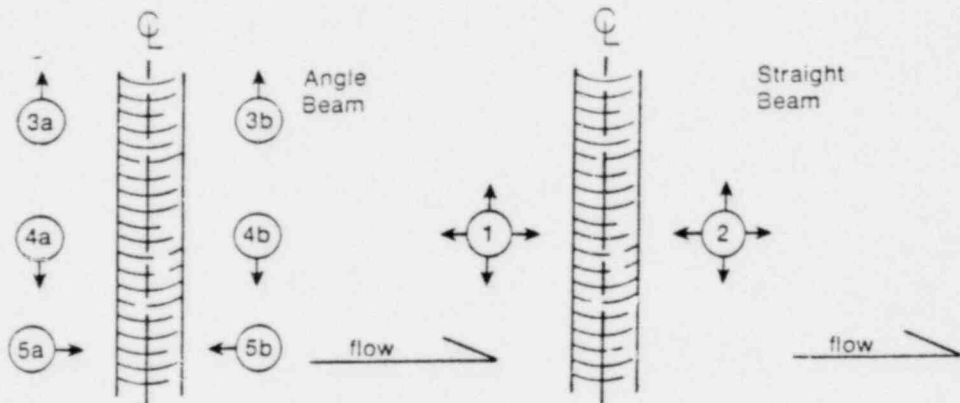
EXAMINATION PERSONNEL:  
NAME [Signature] LEVEL II; NAME ME Williams LEVEL IT

SEARCH UNIT BEAM ANGLE: 0°: X 45°:      60°:      OTHER     

COUPLANT: GLYCERINE: X ULTRAGEL II:      OTHER     

SCAN SENSITIVITY: (+) 8 dB

SCAN ORIENTATION



DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/W1	Lm/Wm	L2/W2	MP1	MPm	MP2	SCAN	STAT.	COMMENTS
4-29	1	IRH-1008 23	P-E		P .42	CL .49	E .51					A	

REVIEWED BY: [Signature] DATE 4/30/81  
 NDE SUPERVISOR [Signature] DATE 5/1/81  
 QC SUPERVISOR [Signature] DATE 5-11-81  
 AUTHORIZED INSPECTOR [Signature]



INSTALLATION & SERVICE ENGINEERING DIVISION

A. Procedure No. MPUP-5751 REV. 6  
Examination Personnel NAME W. Williams LEVEL II NAME ME Williams LEVEL IT  
Instrument SERIAL NO. 521 MAKE/MODEL: - BRANSON/303: ☐ SONIC/MK I; ☒ KK/USL32; ☐ OTHER

D. Search Unit BEAM ANGLE/MODE: ☐ STRAIGHT BEAM/LONG WAVE; ☒ 45°/TRANS WAVE; ☐ 60°/TRANS WAVE  
TRANSDUCER SIZE/FREQ: ☐ 0.25" DIA/2.25 MHz; ☒ 0.5" DIA/2.25 MHz; ☐ 1.0" DIA/2.25 MHz  
SERIAL NO.: 407944 ☐ 1.0" DIA/2.25 MHz; ☒ 0.5"x0.5"/2.25 MHz  
TRANSDUCER TYPE: ☒ CERAMIC SINGLE ELEMENT ☐ CERAMIC DUAL ELEMENT ☐ OTHER  
WEDGE TYPE: ☒ STANDARD WEDGE ☐ SPECIAL WEDGE/TYPE  
CALCULATED BEAM ANGLE IN MATERIAL:  $\theta_2 = \underline{44.7^\circ}$

E. Cable LENGTH: 6 FT. TYPE ☐ RG-58 ☐ RG-59 ☐ RG-57 ☒ RG-174 ☐ OTHER  
F. Calibration Orientation: CALIBRATION REFERENCE REFLECTOR: ☐ PARALLEL ☒ TRANSVERSE TO PIPE AXIS  
FOR DUAL ELEMENT: SPLIT FOR MAXIMUM RESPONSE ☐ PARALLEL ☐ TRANSVERSE to hole center

G. Calibration Standard: LSCS CAL STD. NO. 01-12-01 THICKNESS .42" DIAMETER 12"  
MATERIAL: ☒ CARBON ☐ STAINLESS ☐ INCONEL ☐ OTHER

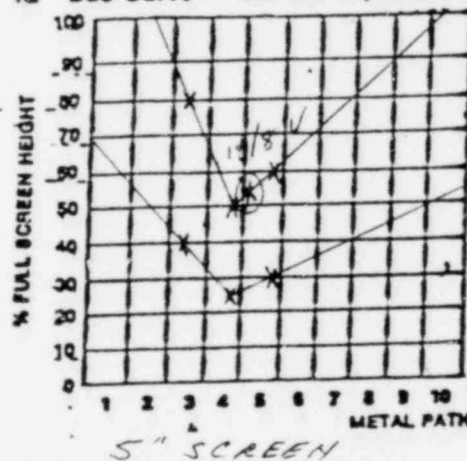
H. Couplant: ☒ GLYCERINE ☐ ULTRAGEL ☐ OTHER

I. Comments: +6dB = 14/8 V TO 100% DAC

### J. Dac Curve — Data

REFLECTOR	PEAK AMP	W1	Wm	W2	MP1	MPm	MP2	HOLE DEPTH
W.T. or 8/8 Vee	80%		.83			1.2		
W.T. or 12/8 Vee	50%		1.34			1.85		
W.T. or 16/8 Vee	60%		1.77			2.4		
S.R. or 14/8 Vee	100%		1.51			2.05		.21

### K. Dac Curve — Screen Representation



### L. Instrument Settings/Checks

CONTROLS	SET	CHECK BOXES							
		01	02	03	04	05	06	07	08
GAIN	50	/							
SCAN GAIN	58	/							
SWEEP	15/8.83	/							
DELAY	754	/							
FILTER	AUTO	/							
REP RATE	MED	/							
OPENING	OFF	/							
REJECT	OFF	/							
OTHER	NA	/							

### M. Calibration Time — Records

1981 DATE	01 ORIG. CAL TIME	02 CAL CHECK TIME	03 LAST E.D.S. #	04 LAST E.D.S. LINE #	05 VERIFICATION OF 25°F LIMIT (YES/NO)
4-29	0920	NA	NA	NA	YES
4-29	NA	1135	92404	7	YES

N. Reviewed By: NDE SUPERVISOR W. Connelly  
O.C. SUPERVISOR W. Williams  
AUTHORIZED INSPECTOR W. Williams

DATE 4/30/81  
DATE 5/1/81  
DATE 5-11-81

## EXHIBIT 3

### ULTRASONIC EXAMINATION DATA SHEET

LaSALLE COUNTY NUCLEAR STATION UNIT 1

PROCEDURE NO. MPUP-575-1 REV. 6

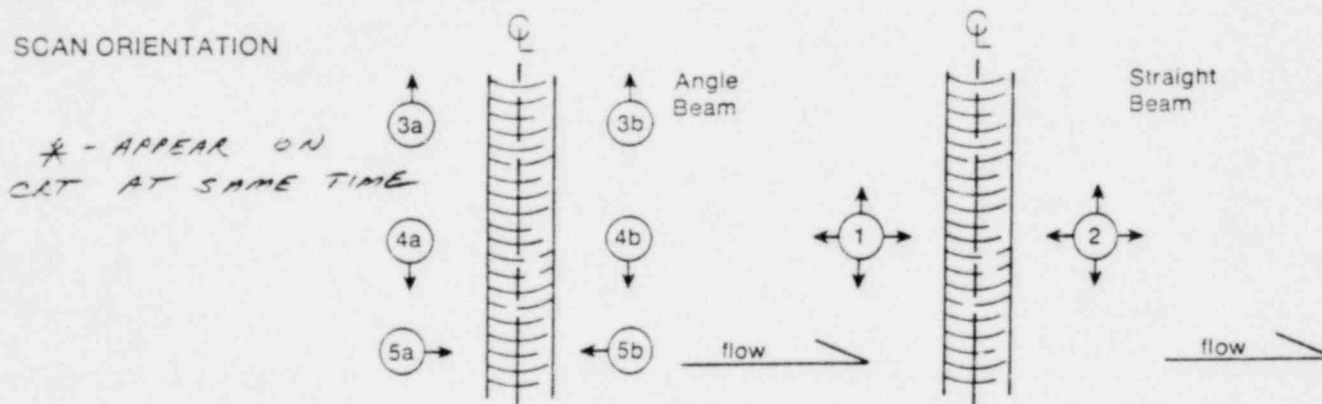
EXAMINATION PERSONNEL:  
NAME J. E. [Signature] LEVEL II; NAME M. E. Williams LEVEL IT

SEARCH UNIT BEAM ANGLE: 0°: \_\_\_\_\_ 45°: X 60°: \_\_\_\_\_ OTHER \_\_\_\_\_

COUPLANT: GLYCERINE: X ULTRAGEL II: \_\_\_\_\_ OTHER \_\_\_\_\_

SCAN SENSITIVITY: (+) 8 dB

SCAN ORIENTATION

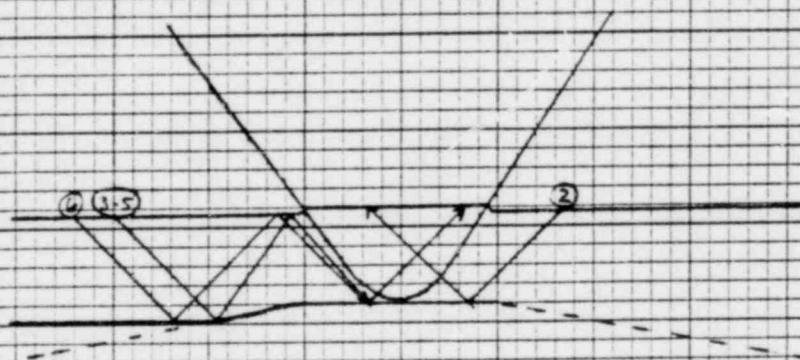


1981 DATE	LINE NO.	EXAM I.D.	COMP FIG.	MAX AMP	L1/ W1	Lm/ Wm	L2/ W2	MP <sub>1</sub>	MP <sub>m</sub>	MP <sub>2</sub>	SCAN	STAT.	COMMENTS
4-29	1	IRH-1008 23	P-E	100?	360 INT	1.4			2.5		5A	A	FDFT
4-29	2	23	P-E	50?	360 INT	.85			1.85		5A	E	FDFS
4-29	3	23	P-E	60?	360 INT	1.5			1.75		5B	E	FDNS *
4-29	4	23	P-E	80?	360 INT	1.5			2.0		5B	E	FDNS *
4-29	5	23	P-E	100?	360 INT	1.5			2.2		5B	E	FDNS *
4-29	6	23	P-E	60?	360 INT	1.4			1.25		5B	A	FDNT
4-29	7	23	P-E	75?	360 INT	1.7			2.75		5B	E	FDFT

REVIEWED BY: SP Connelly DATE 4/30/81

QC SUPERVISOR L. D. [Signature] DATE 5/1/81

AUTHORIZED INSPECTOR W. J. [Signature] DATE 5-11-81

LASALLE UNIT 1 $T_p =$  .42WELD 1RH-1008-23 $T_w =$  .49EDS 92404 $T_E =$  .51GENERAL  ELECTRIC

LINE	EVALUATION
2,6	OD geometry from weld cap
3-5	ID geometry & subsequent mode conversion from weld root

 DATED BY L. J. Wheatley  
 Level III
DATE 5/1/81
 REVIEWED BY W. J. Caldwell  
 ANII
DATE 5-11-81

A. PROCEDURE NO. PP-S751 REV. 7

P. EXAMINATION PERSONNEL:

NAME DEBART LEVEL IINAME N/A LEVEL N/A

C. PENETRANT MATERIALS:

a. MANUFACTURER MAGNAFLUX-SPOTCHECKb. PRE-CLEANING SOLVENT TYPE SKC-S BATCH NO. 79C014c. PENETRANT TYPE SKL-HF /SKL-S BATCH NO. 79B109d. PENETRANT REMOVER TYPE SKC-S BATCH NO. 79C014e. DEVELOPER TYPE SKD-S BATCH NO. 79E033f. POST EXAMINATION CLEANER TYPE SKC-S BATCH NO. 79C014

D. PRE-EXAMINATION REQUIREMENTS:

a. TEMPERATURE:

1. PENETRANT MATERIALS BETWEEN 60° F & 125° F - YES ☐
2. COMPONENT SURFACE BETWEEN 60° F & 125° F - YES ☐

NO ☒ } 57° F

NO ☒

b. SURFACE PREPARATION:

- \*1. GRINDING \*2. FLAPPERING \*3. NONE \*4. OTHER

E. DATA: NOTE: All Exam components are ASME Sect. XI Category. SEE COMMENTS

06 LINE	01 DATE	02 PRE- CLEAN EVAP. TIME	03 PEN. DWELL TIME	04 PEN. REM. EVAP. TIME	05 DEV. TIME	EXAMINATION COMPONENT I.D. NO.	07 MAT'L	08 SURF. PREP. *	RELEVANT INDICATION		ACCEPTABLE		13 RELEVANT INDICATION LOCATION/SIZE OR COMMENTS
									09 YES	10 NO	11 YES	12 NO	
1	5-11	5	20	5	15	IRI-1028-1	S/S	2		X	X		ASME CATEGORY C-F
2	5-11	5	20	5	15	IRI-1028-1A	S/S	2		X	X		ASME CATEGORY C-F
3	5-11	5	20	5	15	IRI-1028-2	S/S	2		X	X		ASME CATEGORY C-E-1
4	5-11	5	20	5	15	IRI-1027-1	S/S	2		X	X		ASME CATEGORY C-F
5	5-11	5	20	5	15	IRI-1026-10	S/S	2		X	X		ASME CATEGORY C-E-1
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

NOTE: FOR EACH EXAM COMPONENT ID NO., PLACE THE APPLICABLE NUMBER(S) (1,2,3 etc) IN ITS APPROPRIATE COLUMN.

REVIEWED BY: NDE SUPERVISOR

QC SUPERVISOR

AUTHORIZED INSPECTOR

DATE 5/14/81DATE 5/15/81DATE 5-19-81



## ULTRASONIC EXAMINATION DATA SHEET

### LASALLE COUNTY STATION UNIT 1

A. Procedure No. MPUP-S751 REV. 4

B. Examination Personnel:  
 NAME John C. [unclear] LEVEL II NAME Larry Fredrick LEVEL I

C. Search Unit Beam Angle ( $\pm 2^\circ$ ): ☒ 0° ☐ 45° ☐ 60° ☐ Other \_\_\_\_\_

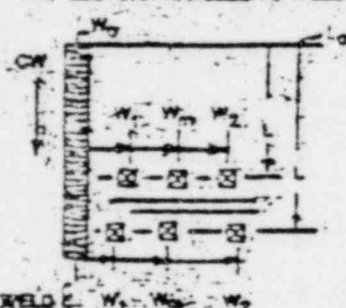
D. Couplant: ☒ Glycerine ☐ Ultragel II ☐ Other \_\_\_\_\_

E. Scan Sensitivity: (+) 8 dB

F. Reference System \_\_\_\_\_ G. Scan Orientation \_\_\_\_\_

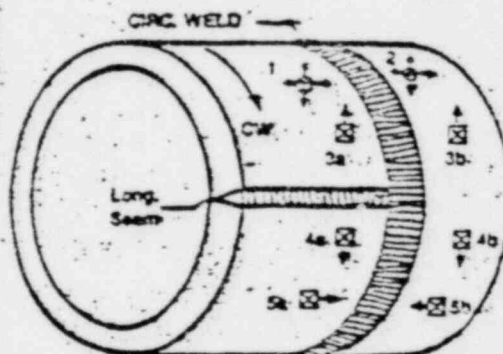
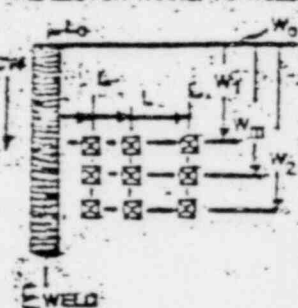
$L_0 = W_1$  Stamp

REFLECTOR PARALLEL TO WELD



$W_0 = W_1$  Stamp

REFLECTOR TRANS. TO WELD



H. Date: Data on line 9 void per MCOO M.R.D. 540 7056 RWW 4/30/81

01 DATE	02 LINE NO.	03 EXAM/COMP. I.D. NO.	04 COMP. FIG.	05 R/C IND. YES/NO	06 MAX. IND. W <sub>11</sub>	07 L <sub>0</sub> W <sub>0</sub>	08 L	09 W <sub>1</sub>	10 W <sub>m</sub>	11 W <sub>2</sub>	12 SRP <sub>1</sub> or MP <sub>1</sub>	13 SRP <sub>m</sub> or MP <sub>m</sub>	14 SRP <sub>2</sub> or MP <sub>2</sub>	15 SCAN	16 Comments (Thickness Meas.)
5-4-79	1	IRH 1006 29	ELBOW PIPE	NO										1 1/2	ELBOW WELD 480 460 PIPE 400
5-4-79	2	IRH 1006 31	PIPE TO ELBOW	NO										1 1/2	ELBOW WELD 480 420 PIPE 390
5-4-79	3	IRH 1006 27	PIPE TO ELBOW	NO										1 1/2	ELBOW WELD 460 420 PIPE 390
5-4-79	4	IRH 1006 25	ELBOW PIPE	NO										1 1/2	ELBOW WELD 440 400 PIPE 390
5-4-79	5	IRH 1006 24	PIPE TO ELBOW	NO										1 1/2	ELBOW WELD 480 460 PIPE 400
5-4-79	6	IRH 1006 21	REDUCER PIPE	NO			NO SCAN REDUCER							2	PIPE 400 WELD 420
5-4-79	7	IRH 1008 14	PIPE TO ELBOW	NO										1 1/2	ELBOW WELD 440 400 PIPE 390
5-4-79	8	IRH 1008 15	ELBOW PIPE	NO										1 1/2	ELBOW WELD 440 400 PIPE 390
5-4-79	9	IRH 1008 23	PIPE TO ELBOW	NO										1 1/2	ELBOW WELD 440 400 PIPE 390

L. Reviewed By: SD Connelly

NDE SUPERVISOR

DATE 5/6/79

QC SUPERVISOR: L W Wheatley

DATE 5/10/79

3. AUTHORIZED INSPECTOR W J Caldwell

DATE 7-31-79