

1	 DEFICIENCY REPORT		☒ FIELD ☐ OTHER	LDR RESPONSIBILITY M. Herlihy LSU	LDR NUMBER 2507	
2	SYSTEM/COMPONENT Emergency Diesel Gen.	SYSTEM DESIGNATOR 1R43	MARK NO. 1R43*ENG-103	DATE 10/1/84	Q CLASS ☒ I ☐ II ☐ III	
3	MFG./CONTRACTOR TDI	P.O. 310552	MATERIAL LOCATION Control Bldg. EDG-103	REJECT TAG NO	☐ YES ☒ NO	
4	SPEC. VIOLATED N/A	DRAWING VIOLATED N/A	PROCEDURE VIOLATED NDE 6.2 para. 4.2.2	CODE/STANDARD VIOLATED		
5	CONDITION DETAILS Per results of NDE Inspections performed on 1R43*ENG 103 (Cam Galley area) rejectable indications were noted. This is in violation of the LILCO NDE Manual NDE 6.2 (Liquid Penetrant) paragraph 4.2.2 (See attached LILCO OQA Inspection Reports for condition details)					
6	ORIGINATOR <i>Victor Ritz</i> 10/1/84 SIGNATURE DATE		OQAE <i>Thomas Rose</i> 10/1/84 SIGNATURE DATE			
7	RESPONSIBILITY ☐ LSU ☒ S & W ENG. <i>M. Herlihy</i> SIGNATURE/LEAD SU ENG			DATE 10/2/84		
8	ACTION ☐ ACCEPT AS IS ☐ REWORK ☐ MANUAL ☐ FSAR ☐ SCRAP ☐ REPAIR ☐ PROCEDURE ☐ OTHER					
9	DISPOSITION DETAILS  8412130306 841101 PDR ADOCK 05000322 G PDR					
10	APPROVALS S & W LEAD ENG./LSU TEST ENG./DATE			PROJECT ENGINEER DATE		
11	LILCO SU ENG. DATE	LILCO SITE OQA DATE	REPAIR/REWORK REQUEST NO.			
12	ENG. COMPLETE/DATE	RRR COMPLETE		REWORK INSPECTION		
		CONST. SUPT./DATE	LILCO SU/DATE	☐ SAT. ☐ UNSAT.		
13	LDR CLOSED	NEW LDR REPORT NO. ISSUED		REMARKS		
	LILCO SITE OQA/DATE					

MAGNETIC PARTICLE EXAMINATION REPORT

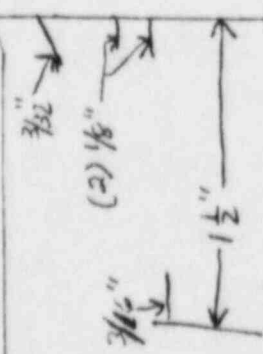
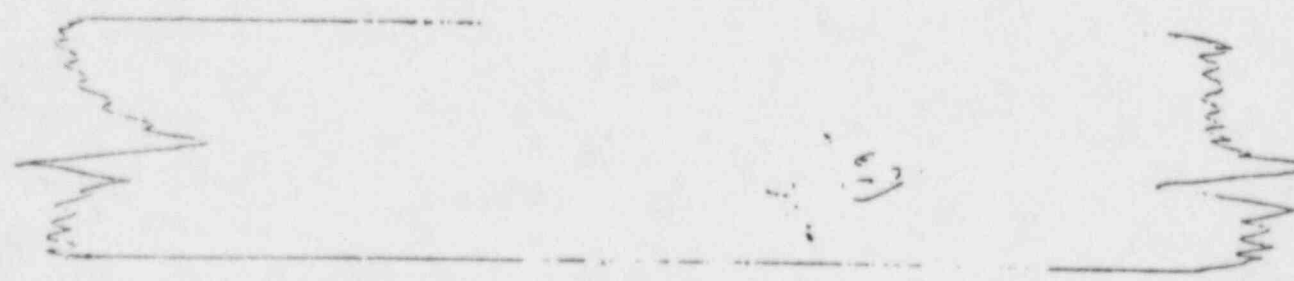
A. MATERIAL		TYPE <u>Grey Iron</u>		FABRICATED PROCESS ☐ WELDED ☐ CAST ☐ WORKED	
		GEOMETRY ☐ PIPE ☐ PLATE ☐ ROD ☐ OTHER:			
CROSS SECTION THICKNESS	MAX <u>N/A</u> INCH	MIN <u>N/A</u> INCH	SURFACE CONDITION	☐ MACHINED ☒ GROUND ☐ AS FABRICATED ☐ OTHER	
B. NDE PROCEDURE NO. <u>7.1 - 7.2</u>		MWR/RR NO. <u>RR R43 2029</u>		EQUIPMENT ID S/N <u>16186</u> METER NO. <u>872 + 836</u>	
TECHNIQUE		☐ PRODS ☒ YOKE ☐ COIL ☐ OTHER			
CURRENT		☒ AC ☐ DC ☐ HW/DC ☐ 10 lb PLATE ☐ 40 lb PLATE			
		AMPS <u>N/A</u> AMPS PER IN. <u>N/A</u>		PROD SPACING YOKE <u>8"</u> PRODS <u>N/A</u>	
MATERIALS		☐ DRY ☒ WET <u>MAGNAGLO 14AM PREPARED BATH</u> BRAND/DESIGNATION <u>BATH #8413007</u>			
SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY <u>SEE ATTACHED SHEETS</u> <u>This examination was performed to assist in Placement of strain gauges. M.T. indications are noted on attached sheets. Also attached is a copy of memo to J. Kelly dated 9/20/84, Revised 9/28/84.</u>					
C. EVALUATION		REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE			
LOCATION	SIZE (INCHES)	DESCRIPTION	ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY)		
1			NA		
2					
3					
4					
D. ACCEPTANCE CRITERIA		<u>N/A</u>		OPERATOR <u>VICTOR PLATANIA</u> LEVEL <u>II</u> DATE <u>10/1/84</u>	
E. ATTEST		<u>[Signature]</u> RESPONSIBLE CERTIFIED PERSONNEL		<u>II</u> LEVEL	
				<u>10/1/84</u> DATE	

1843 X EDS-103
 AREAS OF CHM
 STAINES #278
 1843
 EDS-RM-103

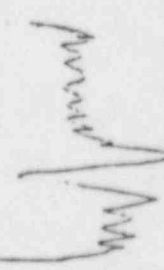
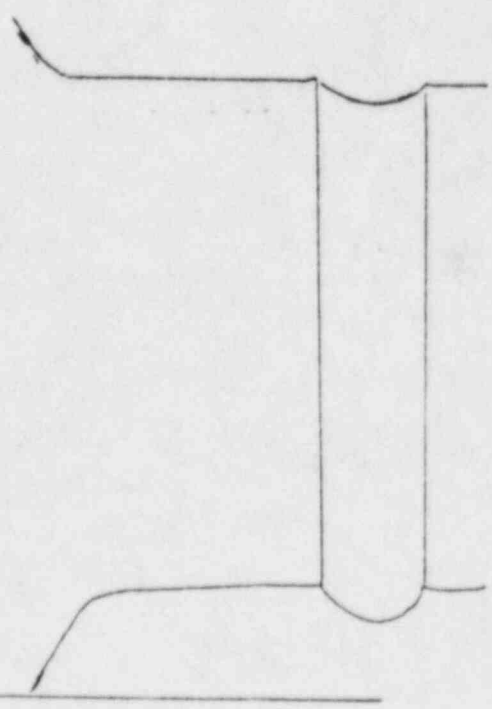
CYLINDER #8

CAM SADDLE AREA

IR43# EDC 103
NT EXAMINATION INDICATIONS



3



Inspector / Date Jim Ahoy Level II 10/1/84

CYLINDER # 2

-- CAM SADDLE AREA

IR43* EDG 103

MT EXAMINATION INDICATIONS

2" LINEAR

1/2"

3" LINEAR

2"

1/2" 1/2" 1/4"

1/4" 3/16" 1/16"

CAM SADDLE # 2

Inspector / Date Jan 6 Mosby Level II 10/1/84

September 20, 1984

J. Kelly

4103 *msd 9/20/84*
Diesel Engine 101^A - Cam Galley Strain
Gauge NDE Testing
SHOREHAM NUCLEAR POWER STATION - UNIT 1
W.O. 44430/48923

DR/QE has been requested by FaAA to perform MPI of all Cam Galley saddles on DG-101. This exam would be a repeat of informational MP performed by CQA, LDR 1224, RR 869, 870, 871 and 880. In addition to MP inspections, LP baseline inspections will also be completed.

MPI can not be completed in compliance with LILCO NDE Procedure 7.1 and 7.2, due to access limitations (i.e., Paragraph 4.1.3 NDE 7.1). I have reviewed this deviation with C. Wells, FaAA, Telecon 9/19/84 and R. Kascsak, NED, Telecon 9/20/84, and have received their concurrence that it is acceptable to perform the MP test (i.e., one test with magnetic flux applied in one direction).

If you have any further questions, please call me on ext. 334 or 335.

The informational MPI and mapping described above will be required to assist in placement of strain gauges. NDE 7.1 accept/reject criteria does not apply.

M.H. Schuster
M. H. Schuster

MHS/ds

Approved
J. Kelly 9/20/84



LIQUID PENETRANT EXAMINATION REPORT

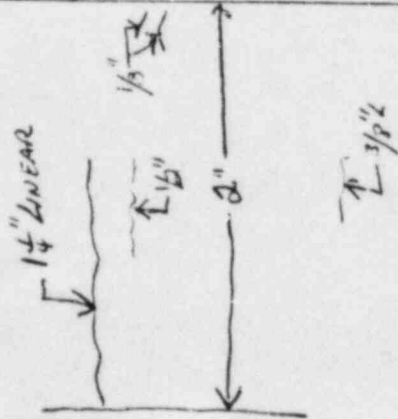
A. MATERIAL		TYPE	FABRICATED PROCESS	☐ WELDED ☒ CAST ☐ WORKED	
		GEOMETRY	☐ PIPE ☐ PLATE ☐ ROD ☐ OTHER:		
CROSS SECTION THICKNESS	MAX MIN	PIPE DIA.	SURFACE CONDITION	☐ MACHINED ☐ AS FABRICATED	☒ GROUND ☐ OTHER
	N/A	N/A		PAINT REMOVED AND LIGHT GRINDING	
B. NDE PROCEDURE No. 6.2		SURFACE/MAT'L. TEMP. 82°F		M&TE. NO. 365	MWR/RR. No. RR 243-7029
INSPECTION MATERIALS		BRAND	DESIGNATION	BATCH NO.	
1. PRE-CLEANER		MAGNAFLUX	SKC-NF/2C-7B	82J083	
2. PENETRANT		MAGNAFLUX	SKL-HF/S	83G018	
3. EMULSIFIER AND/OR REMOVER		MAGNAFLUX	SKC-NF/2C-7B	82J083	
4. DEVELOPER		MAGNAFLUX	SKD-NF/2P-9B	83H041	
5. POST EXAMINATION CLEANER		MAGNAFLUX	SKC-NF/2C-7B	82J083	
SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY SEE ATTACHED SHEETS This examination was performed after area grinding in preparation for placement of strain gauges.					
C. EVALUATION		REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE.			
LOCATION	SIZE (INCHES)	DESCRIPTION	ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY)		
1 CAM SADDLE #2	SEE ATTACHED SKETCH OF LINEAR INDICATIONS		REJECT		
2 CAM SADDLE #8	SEE ATTACHED SKETCH OF LINEAR INDICATIONS		REJECT		
3 N/A	N/A	N/A	N/A		
4 N/A	N/A	N/A	N/A		
D. ACCEPTANCE CRITERIA	NDE 6.2 PARA. 4.2.2		OPERATOR James H. Perry / V. PLANTANIA Level II Date 10/1/84		
E. ATTEST	Responsible Certified Personnel (Signature)		LEVEL II DATE 10/1/84		

COMPONENT I.D. 1843* EDC-103 (MEAS OF Cam SADDLES #2 & #8) SYSTEM 1843

PLANT/LOCATION EDC-RM-103

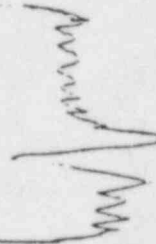
CYLINDER #2

--CAM SADDLE AREA



(7)

11" x 10"



Inspector / Date John Anthony Level II 10/1/84

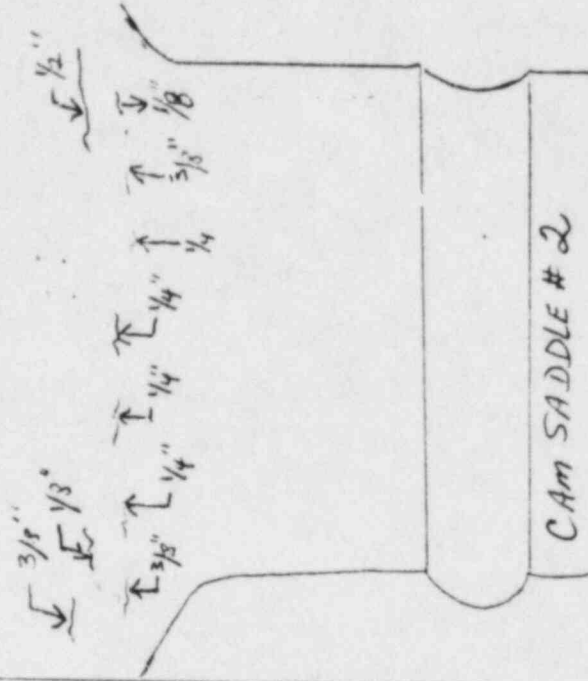
1R43 * EDG-103

LP EXAMINATION INDICATIONS

PENETRANT DWELL TIME - 10 MIN.

DEVELOPER DWELL TIME - 7 MIN.

MATL. Temp. - 82°F



CAM SADDLE #2

Cylinder # 8

CAM SADDLE AREA

1R43X EDG-103

LP EXAMINATION INDICATIONS

PENETRANT DWELL TIME - 10 MIN

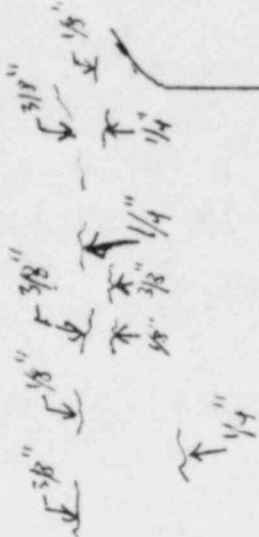
DEVELOPER DWELL TIME - 7 MIN

MATL. Temp - 82°F

3/16"

2"

8



CAM SADDLE # 8

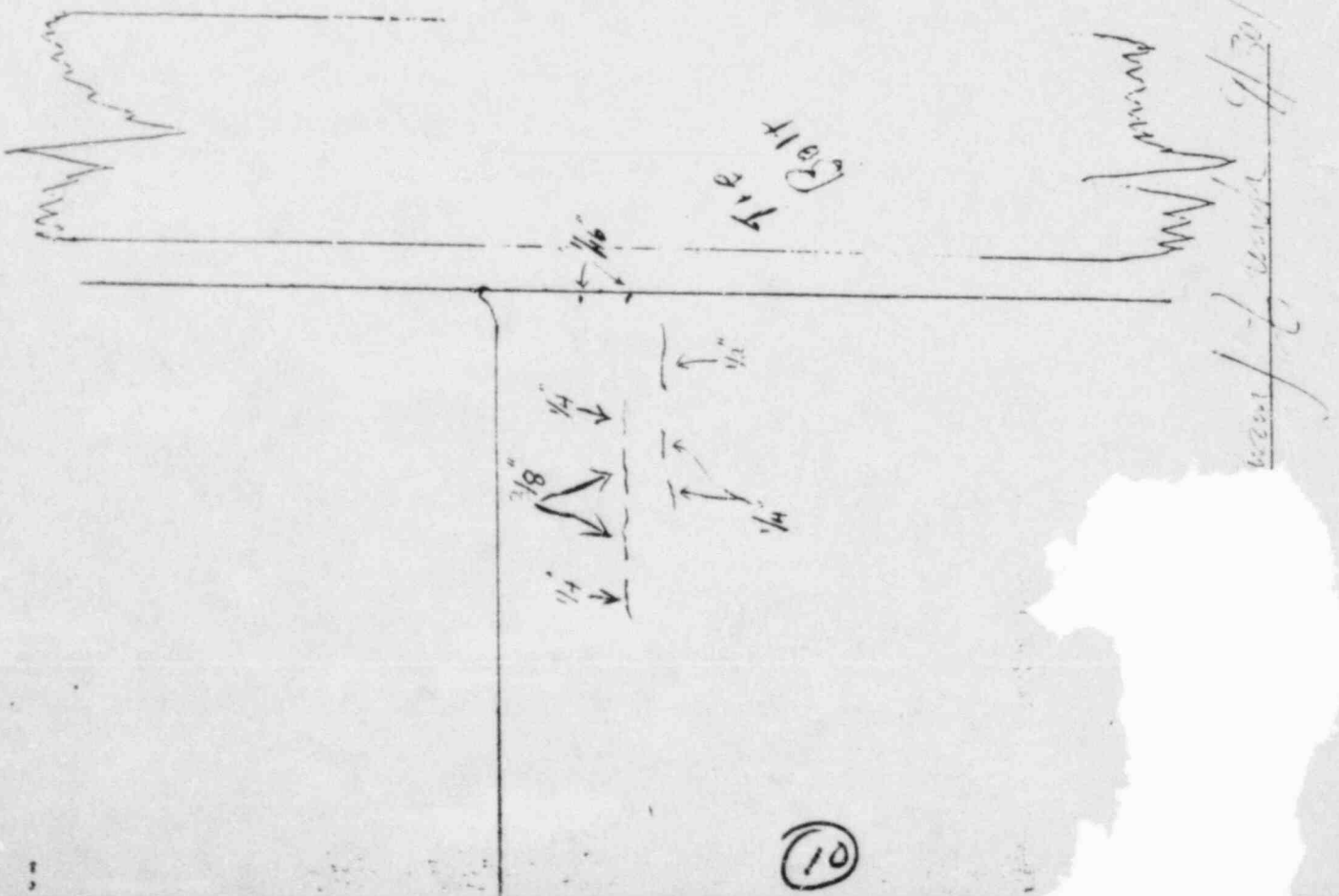
Inspector / Date James Ahlby Level II 10/1/84



MAGNETIC PARTICLE EXAMINATION REPORT

A. MATERIAL		TYPE <i>Cast Iron</i>	FABRICATED PROCESS ☐ WELDED ☐ CAST ☐ WORKED	COMPONENT I.D.
CROSS SECTION THICKNESS	MAX MIN <i>N/A</i>	GEOMETRY ☐ PIPE ☐ PLATE ☐ ROD ☐ OTHER:		
		PIPE DIA. <i>1 1/2"</i>	SURFACE CONDITION ☐ MACHINED ☐ GROUND ☐ AS FABRICATED ☐ OTHER	
B. NDE PROCEDURE NO. <i>71-7</i>		MWR/RR NO. <i>RR R43 2029</i>	EQUIPMENT I.D. S/N M&E NO. <i>572 4 836</i>	
TECHNIQUE	☐ PRODS ☒ YOKE ☐ COIL ☐ OTHER			SYSTEM
CURRENT	☒ AC ☐ DC ☐ HW/DC ☐ 10 lb PLATE ☐ 40 lb PLATE			
AMPS <i>100</i> AMPS. PER. IN. <i>100</i>		PROD SPACING YOKE <i>9"</i> PRODS <i>N/A</i>		
MATERIALS	☐ DRY ☒ WET <i>Magnetic NP-1 Prepared Batch # 9413007</i>			
SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY <i>This examination was performed to assist in placement of strain gauges. MT indications are noted in attached sheet. Also attached is copy of J Kelly memo dated Sept 20, 1984 - revised 9/25/84.</i>				
C. EVALUATION		REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE		
LOCATION	SIZE (INCHES)	DESCRIPTION	ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY)	PLANT/LOCATION <i>1006 RM 103</i>
1				
2				
3				
4				
D. ACCEPTANCE CRITERIA	<i>N/A</i>		OPERATOR <i>J. French / B. Scripture</i> LEVEL <i>II</i> DATE <i>9/30/84</i>	
E. ATTEST	<i>William J. French</i> RESPONSIBLE CERTIFIED PERSONNEL 9		LEVEL DATE <i>9/30/84</i>	

IR43 x E165-103
 MT examination indications



September 20, 1984

J. Kelly

4103 mms 9/21/84
Diesel Engine 101^A - Cam Galley Strain
Gauge NDE Testing
SHOREHAM NUCLEAR POWER STATION - UNIT 1
W.O. 44430/48923

DR/OF has been requested by FaAA to perform MPI of all Cam Galley saddles on DG-101. This exam would be a repeat of informational MP performed by OQA, LDR 1224, RR 669, 870, 871 and 880. In addition to MP inspections, LP baseline inspections will also be completed.

MPI can not be completed in compliance with LILCO NDE Procedure 7.1 and 7.2, due to access limitations (i.e., Paragraph 4.1.3 NDE 7.1). I have reviewed this deviation with C. Wells, FaAA, Telecon 9/19/84 and R. Kascsak, NED, Telecon 9/20/84, and have received their concurrence that it is acceptable to perform the MP test (i.e., one test with magnetic flux applied in one direction).

If you have any further questions, please call me on ext. 334 or 335.

The informational MPI and mapping described above will be required to assist in placement of strain gauges. NDE 7.1 accept/reject criteria does not apply. *mms 9/21/84*

MH Schuster
M. H. Schuster

MHS/ds

Approved
M Kelly 9/20/84

(11)

RRR R43 2029



LIQUID PENETRANT EXAMINATION REPORT

A. MATERIAL		TYPE	FABRICATED PROCESS	☐ WELDED ☒ CAST ☐ WORKED	
CROSS SECTION THICKNESS	MAX	PIPE DIA.	SURFACE CONDITION	☐ MACHINED ☐ GROUND	☐ AS FABRICATED ☒ OTHER
B. NDE PROCEDURE No. 6.2		SURFACE/MAT'L. TEMP. 50° F		M&T. NO. 365	MWR/RR. No. 8222432029
INSPECTION MATERIALS		BRAND	DESIGNATION	BATCH NO.	
1. PRE-CLEANER		Magnaflow	SKL NF/20 7B	S.2 J 093	
2. PENETRANT		"	SKL-HF/5	S.3 G 018	
3. EMULSIFIER AND/OR REMOVER		"	SKL-HF/20 7B	S.2 J 083	
4. DEVELOPER		"	SKL-HF/20 7B	S.3 H 041	
5. POST EXAMINATION CLEANER		"	SKL NF 20 7B	S.2 J 083	
SKETCH OR OTHER DETAIL: USE OTHER SIDE IF NECESSARY					
This examination was performed prior to examination area grinding for attachment of strain gauges. After grinding another examination is required. — See attached —					
C. EVALUATION		REPORT BELOW THOSE INDICATIONS OBSERVED AND THE PERTINENT INFORMATION REQUIRED. WHERE ADDITIONAL SPACE IS REQUIRED USE OTHER SIDE.			
LOCATION	SIZE (INCHES)	DESCRIPTION	ACTION (ACCEPT/REJECT, AND COMMENT AS NECESSARY)		
1 # 2	N/A	N/A	Accepted / No relevant indications		
2 # 2	See attached sketch of near indications	See attached sketch of near indications	Reject / Area is to be ground and RT retest performed		
3	N/A	N/A	N/A		
4	N/A	N/A	N/A		
D. ACCEPTANCE CRITERIA		NDE 6.2 para 4.2.2			
E. ATTEST		OPERATOR <u>N. J. French</u> <u>10/2/2011</u> Level <u>II</u> Date <u>9/20/2011</u>			
RESPONSIBLE CERTIFIED PERSONNEL		DATE			

IR47, R43-103

Inspection indications

Fracture length Time - 10 min.

Drill hole Time - 7 min.

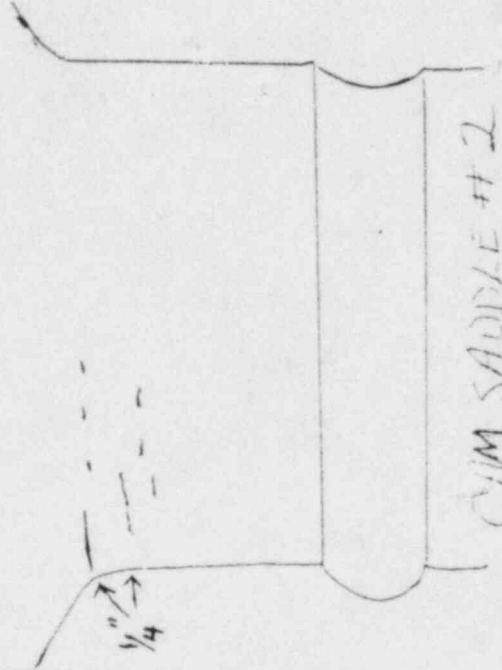
Roll trap - 8.10.15

Tie
Belt



All indications are
1/16" unless otherwise noted.

(13)



Inspector/Date/Initial

RHR R43 2029

Date 9/30/84

REVIEWED BY: J. [Signature]