

Preservice examination data has been organized by zones under individual zone tabs.

Within each zone, the surface examination data is first, organized by date of examination. Volumetric examination data is last, organized by date of examination.

8411070189 841030
PDR ADOCK 05000382
Q PDR



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TITLE

Preservice Examination Data



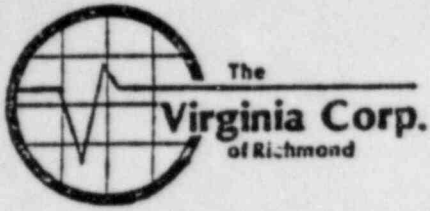
The
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Liquid Penetrant

Don Payne ANEZ 7/15/82
Examination Report

Customer LPEL	Plant WATERFORD	Unit 3	Loop/Zone 2/22
Procedure ISI-3.1 REV.0 FC 2	Examiner/Level Michael W. Blew II		Date 2-10-82
Component/Piping System SHUTDOWN COOLING LINE	ISO Drawing No. ZONE 22 REV 2 FC1	VCR Site Supervisor Naniel [unclear]	
Material Batch Nos. 476-015	Manufacturer SHERWIN INC	Type DUBL-CHEK	
Penetrant 476-015	Developer 1786	Remover 1124	

Weld Number	Comments	PT Results		VT Results	
		NRI	RJ	Sat.	Unsat
22-023*	WELD AND BASE METAL EXAMINED ON 5 SIDE 360°. BASE METAL ON 2 SIDE NOT EXAMINED FROM 2" (7 SIDE) TO 25.5" (7 SIDE).	✓		✓	
22-024*	WELD AND BASE METAL NOT EXAMINED FROM 2" (7 SIDE) TO 25.5" (7 SIDE).	✓		✓	
* Both PARTIALS were due to RESTRAINT welded to wall.					



Liquid Penetrant
Dan Payne ANZI 2/13/82
 Examination Report

Customer <u>LP+L</u>	Plant <u>Waterford</u>	Unit <u>3</u>	Loop/Zone <u>2/22</u>
Procedure <u>ISI -3.1 Rev. C F.C. 2</u>	Examiner/Level <u>Michael W. Blew II / Stephen J. Morris I</u>	Date <u>2-11-82</u>	
Component/Piping System <u>Shutdown Cooling Line</u>	ISO Drawing No. <u>Zone 22 Rev 2 F.C. 1</u>	VCR Site Supervisor <u>Daniel Jones</u>	
Material Batch Nos. <u>477015</u>	Manufacturer <u>Sherwin Inc</u>	Type <u>Dubl - Check</u>	
Penetrant <u>477015</u>	Developer <u>14B6</u>	Remover <u>112C4</u>	

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	Sat.	Unsat
<u>22-021</u>		✓		✓	
<u>22-028</u>		✓		✓	
<u>22-029</u>		✓		✓	
<u>22-030</u>		✓		✓	
<u>22-031</u>		✓		✓	
<u>22-033</u>		✓		✓	
<u>22-035</u>		✓		✓	
<u>22-036</u>		✓		✓	
<u>22-037</u>		✓		✓	
<u>22-038</u>		✓		✓	
<u>22-040</u>		✓		✓	
<u>22-041</u>		✓		✓	
<u>22-042</u>		✓		✓	
<u>22-043</u>		✓		✓	
<u>22-055</u>		✓		✓	
<u>22-061</u>		✓		✓	
<u>22-063</u>		✓		✓	



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Liquid Penetrant
Don Payne ANII 3/1/82
Examination Report

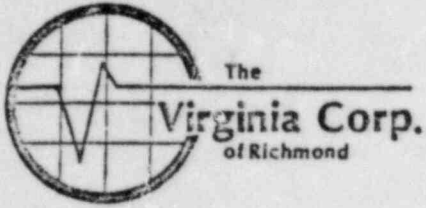
Customer LP&L		Plant WATERFORD		Unit 3	Loop/Zone 2 22	
Procedure I.S.I. 3.1 R.O, F.C. 2			Examiner/Level <i>Hary Longmacker III</i>		Date 2-26-82	
Component/Piping System SHUTDOWN COOLING		ISO Drawing No. 22 R-2 F.C 1		VCR Supervisor <i>Daniel Jones</i>		
	Manufacturer	Type	Batch No.			
Penetrant	SHERWIN	DUBL-CHEK	47L-015			
Developer	SHERWIN	DUBL-CHEK	129-FG			
Remover	SHERWIN	DUBL-CHEK	112-C9			
Weld Number		Comments	PT Results		VT Results	
			NRI	RI	SAT.	UNSAT.
22-017			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



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Liquid Penetrant
Don Payne ANII 3/3/82
Examination Report

Customer	LP&L		Plant	Waterford		Unit	3		Loop/Zone	2/22	
Procedure	ISI-3.1 RO FC2			Examiner/Level	<i>Jamie A. Litter II</i>			Date	3-2-82		
Component/Piping System	Shutdown Cooling		ISO Drawing No.	ZONE 22 FC1 R.2		VCR Supervisor	<i>Donal Dunson</i>				
	Manufacturer	Type	Batch No.								
Penetrant	Sherwin	Dubl-Chek	47L-015								
Developer	Sherwin	Dubl-Chek	129 F6 +26 F6 98								
Remover	Sherwin	Dubl-Chek	11264								
Weld Number	Comments					PT Results		VT Results			
						NRI	RI	SAT.	UNSAT.		
22-006						✓		✓			

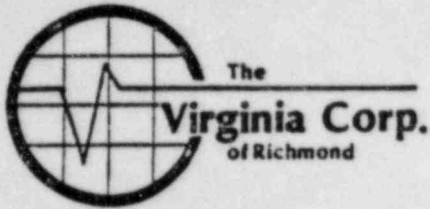


Liquid Penetrant
Don Payne ANEI 3/4/82
 Examination Report

Customer <i>LP/L</i>	Plant <i>Waldorf</i>	Unit <i>3</i>	Loop/Zone <i>1/22</i>
Procedure <i>ISI 3.1 RO FLZ</i>	Examiner <i>James M. White</i>	Date <i>3-3-82</i>	
Component/Piping System <i>Shutdown Cooling from Loop 2A</i>	ISO Drawing No. <i>Zone 22 R2 FL1</i>	VCR Supervisor <i>Donnie Jones</i>	

	Manufacturer	Type	Batch No.
Penetrant	<i>Sherwin</i>	<i>Dubl-Check</i>	<i>474-015</i>
Developer	<i>Sherwin</i>	<i>Dubl-Check</i>	<i>129-F6</i>
Remover	<i>Sherwin</i>	<i>Dubl-Check</i>	<i>112 C4</i>

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>22-003</i>		✓		✓	
<i>22-008</i>		✓		✓	
<i>22-009</i>		✓		✓	
<i>22-011</i>		✓		✓	



Liquid Penetrant
Don Payne ANII 3/30/82
Examination Report

Customer <i>LP&L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>2/22</i>
Procedure <i>ISI 3.1 R.O F.C. 2</i>	Examiner/Level <i>Jamie R. [unclear] II / [unclear]</i>		Date <i>3-29-82</i>
Component/Piping System <i>Safety Injection</i>	ISO Drawing No. Rev <i>Zone-22 FCI</i>	VCR/Supervisor <i>[Signature]</i>	

	Manufacturer	Type	Batch No.
Penetrant	<i>Sherwin</i>	<i>Dubl-Chek</i>	<i>47L015</i>
Developer	<i>Sherwin</i>	<i>Dubl-Chek</i>	<i>129F6</i>
Remover	<i>Sherwin</i>	<i>Dubl-Chek</i>	<i>112C4</i>

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>22-045</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



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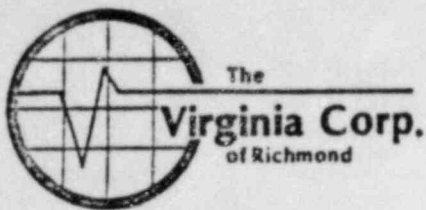
Liquid Penetrant

D. Payne ANII 5/13/82

Examination Report

Customer <i>LP+L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>2A/22</i>
Procedure <i>ISI 3.1 R.O.F.C.2</i>	Examiner/Level <i>Robert J Overstreet II</i>		Date <i>5-12-82</i>
Component/Piping System <i>Shutdown Cooling Line to 2A</i>	ISO Drawing No. <i>Zone 22 R.2 F.C.2</i>	VPS Supervisor <i>David Jones</i>	

	Manufacturer	Type	Batch No.				
Penetrant	<i>Sherwin</i>	<i>Dubl-Check</i>	<i>472015</i>				
Developer	<i>Sherwin</i>	<i>Dubl-Check</i>	<i>129F6</i>				
Remover	<i>Sherwin</i>	<i>Dubl-Check</i>	<i>11204</i>				
Weld Number	Comments			PT Results		VT Results	
				NRI	RI	SAT.	UNSAT.
<i>22-044</i>				<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



Liquid Penetrant
 D. Payne ANEI 5/20/82
 Examination Report

Customer LP&L	Plant Waterford	Unit 3	Loc: Zone 2A 22		
Procedure ISI 3.1 R.O F.C. X-2 R30	Examiner/Level Robert J Overstreet II	Date 5-19-82			
Component/Piping System Shutdown Cooling Line to 2A	ISO Drawing No. Zone 22 R-2 F.C. 2	VCR Supervisor Daniel J... [Signature]			
	Manufacturer	Type	Batch No.		
Penetrant	Sherwin	Dubl-Check	47L015		
Developer	Sherwin	Dubl-Check	129F6		
Remover	Sherwin	Dubl-Check	112C4		
Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
22-004	Weld could not be examined from zero datum to 22 1/2 inches as the result of a restraint blocking the examination surface. Total exam. surface was from 22 1/2 inches to 44 1/2 inches.	✓		✓	



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Liquid Penetrant

R Payne ANII 5/21/82
Examination Report

Customer <i>LP+L</i>		Plant <i>Waterford</i>		Unit <i>3</i>		Loop/Zone <i>2A/22</i>	
Procedure <i>ISI 3.1 P.O F.C. 2</i>		Examiner/Level <i>Robert J Overstreet II</i>				Date <i>5-20-82</i>	
Component/Piping System <i>Shutdown Cooling line-loop 2A</i>		ISO Drawing No. <i>Zone 22 R. 2 F.C. 2</i>		VPR Supervisor <i>Reneil Jones</i>			
	Manufacturer	Type	Batch No.				
Penetrant	<i>Sherwin</i>	<i>Dubl-chck</i>	<i>476015</i>				
Developer	<i>Sherwin</i>	<i>Dubl-chck</i>	<i>129FG</i>				
Remover	<i>Sherwin</i>	<i>Dubl-chck</i>	<i>112CY</i>				
Weld Number	Comments	PT Results		VT Results			
		NRI	RI	SAT.	UNSAT.		
<i>22-050</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			



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Liquid Penetrant
D. Payne ANII 5/28/82
Examination Report

Customer <i>LP&L</i>	Plant <i>WATERFORD</i>	Unit <i>3</i>	Loop/Zone <i>2A/22</i>
Procedure <i>ISI 3.1 REV. 0 F.C. 2</i>	Examiner/Level <i>J.P. Evans, J. Level II</i>	Date <i>5-27-82</i>	
Component/Piping System <i>SHUTDOWN COOL-WATER HOT LEG</i>	ISO Drawing No. <i>ZONE 22, REV. #2 F.C. 2</i>	VCR Supervisor <i>Daniel Jones</i>	

	Manufacturer	Type	Batch No.
Penetrant	SHERWIN	DUBL/CHEK DP-51	47L015
Developer	SHERWIN	DUBL/CHEK D-100	129F6
Remover	SHERWIN	DUBL/CHEK DR-60	11204

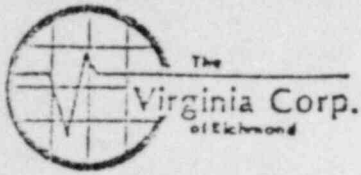
Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>22-027</i>		✓		✓	
<i>22-046</i>		✓		✓	



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Liquid Penetrant
D. Payne ANII 6/8/82
 Examination Report

Customer <i>Lp 2</i>	Plant <i>Waterford</i>	Unit <i>III</i>	Loop/Zone <i>2A/22</i>		
Procedure <i>ISI. 3.1. REV. 0 FC-2</i>	Examiner/Level <i>BARRY AUFF L. II</i>	Date <i>6-7-82</i>			
Component/Piping System <i>Shutdown Cooling Line FROM Loop # 2A Hot Leg</i>	ISO Drawing No. <i>ZONE 22 REV-2 FC-0</i>	VCR Supervisor <i>Daniel Jena</i>			
	Manufacturer	Type	Batch No.		
Penetrant	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>47L015</i>		
Developer	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>129-F6</i>		
Remover	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>112-C4</i>		
Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>22-057</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



Don Payne ANII 3/25/82
 Ultrasonic Data Sheet
 for
 Thickness Measurement

Customer LP & L	Plant WATERFORD	Unit 3	Loop/Zone 2A 22
Component/Piping System SHUTDOWN COOLING	Examiner/Level BURLINGAME	Date 3-23-82	
Procedure ISI-2-T, REV. 0, FCD	Iso/Drawing No. ZONE 22, REV 2, FCI	VCR Supervisor Daniel Jensen	Continuation Sheet Attached [X] Yes [] No

Equipment

Instrument	Transducer		Calibration
Mfgr. SONIC	Mfgr. AEROTECH	Size 1/2"	Cal. Block UT-119
Model ETS-MK1	Freq. 2.25 MHz.		Cal. Block
S/N 780836	Serial No. KB 2728		Range Cal. 1.125" = 8 Div.
Reject OFF	Coax. Cable TWIN 6'		Calibration Checks
Damp. MIN	Gain 70 db G		0920
Freq. 2.25 MHz.			1135
Rep. Rate 1000			1300
Filter HIGH			1630
Video NORM			
Couplant SONOTRACE 40 #8119			

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan
22-002	12	1.19	1.26	1.23	22-008	12	1.15	1.29	1.25
	2	1.26	1.26	1.26		2	1.18	1.15	1.23
	4	1.27	1.27	1.26		4	1.15	1.20	1.26
	6	1.15	1.26	1.27		6	1.08	1.35	1.29
	8	1.23	1.37	1.26		8	1.15	1.18	1.25
	10	1.26	1.27	1.26		10	1.12	1.15	1.19
22-006	12	1.26	1.26	1.35	22-009	12	1.23	1.26	1.20
	2	1.25	1.25	1.26		2	1.18	1.23	1.23
	4	1.23	1.23	1.15		4	1.12	1.23	1.26
	6	1.26	1.20	1.23		6	1.09	1.35	1.23
	8	1.26	1.23	1.12		8	1.12	1.23	1.20
	10	1.23	1.25	1.25		10	1.15	1.20	1.18

Sketch/Identification



Ultrasonic Data Sheet
 for *D. Payne* ANII ^{3/23/82}
 Thickness Measurement
 Continuation Page 2 of 2

Customer <i>LP & L</i>	Plant <i>WATERFORD</i>	Unit <i>3</i>	Loop/Zone <i>2A / 22</i>
Component/Piping System <i>SHUTDOWN</i>	Examiner/Level <i>BURLINGAME II</i>	Date <i>3-23-82</i>	
Procedure <i>151-2-7 REV. D, FC D</i>	Iso/Drawing No. <i>ZONE 22, REV. 2, FC-1</i>	VCR Supervisor <i>Daniel Jones</i>	

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
<i>22-012</i>	<i>12</i>	<i>1.35</i>	<i>1.26</i>	<i>1.23</i>					
	<i>2</i>	<i>1.20</i>	<i>1.32</i>	<i>1.23</i>					
	<i>4</i>	<i>1.19</i>	<i>1.26</i>	<i>1.26</i>					
	<i>6</i>	<i>1.20</i>	<i>1.26</i>	<i>1.26</i>					
	<i>8</i>	<i>1.20</i>	<i>1.20</i>	<i>1.26</i>					
	<i>10</i>	<i>1.23</i>	<i>1.20</i>	<i>1.26</i>					
<i>22-014</i>	<i>12</i>	<i>1.32</i>	<i>1.29</i>	<i>1.29</i>					
	<i>2</i>	<i>1.26</i>	<i>1.26</i>	<i>1.29</i>					
	<i>4</i>	<i>1.26</i>	<i>1.25</i>	<i>1.25</i>					
	<i>6</i>	<i>1.26</i>	<i>1.26</i>	<i>1.27</i>					
	<i>8</i>	<i>1.27</i>	<i>1.23</i>	<i>1.23</i>					
	<i>10</i>	<i>1.25</i>	<i>1.26</i>	<i>1.23</i>					

Sketch/Identification



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Ultrasonic Examination Report *Don Payne ANII 3/25/82*

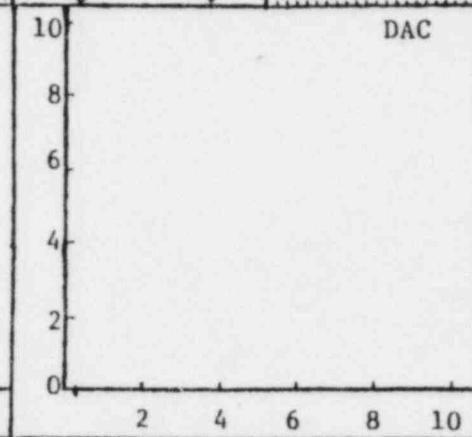
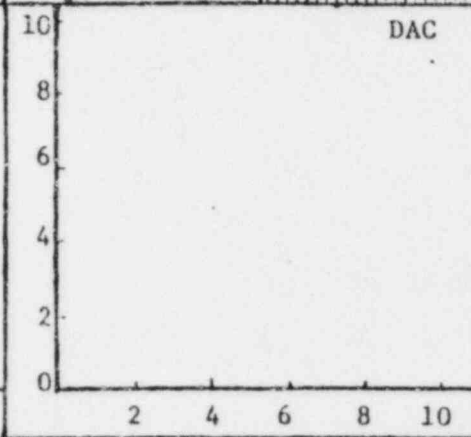
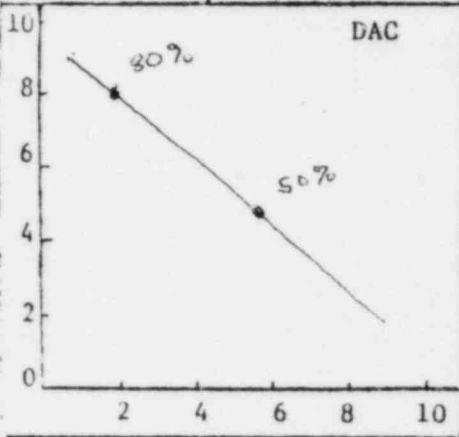
Customer LP&L	Plant Waterford	Unit 3	Loop/Zone 2A/23	Iso/Drawing No. Zone 23 Rev 2 FC 1
Procedure FC-1	Exam Surface O.D.	Examiner/Level <i>R. B. ... II</i>	VGR Supervisor <i>Daniel ...</i>	Date 3-23-82
Component/Piping System Shutdown Cooling		Pipe Size 14"	Weld Type Butt	Cal. Block UT-119
			Couplant: Sonotrace	Batch No. 8119

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No **FC-1**
 If Yes, Number

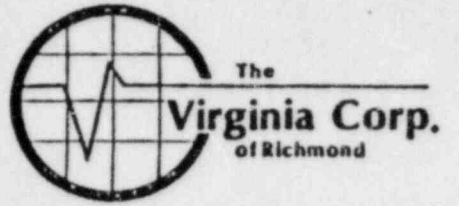
Transducer S/N Size Frequency Beam Angle	0°	45°	60°	Instrument			
	KB 2728	NA	NA	Mfr.	Sonic	Model	FTS Mark I
	50"			S/N	780836	RepRate	1K
	2.25 MHz			Relect	Min	Filter	high
	0°	↓	↓	Damp	Min	Coax	6'
				Freq.	2.25 MHz	Video	Norm

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks							
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:			Signal Amp.	Sweep	Sound Entry Point To:			0°		45°		60°	
					Scribe Line	50% DAC	Scribe Line			50% DAC	In	Out	In	Out	In	Out		
																	NA	NA
1/4 T	80%	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1300	1630				
3/4 T	50%	5.7																
T	95%	8																
Ref. dB	70 DB																	



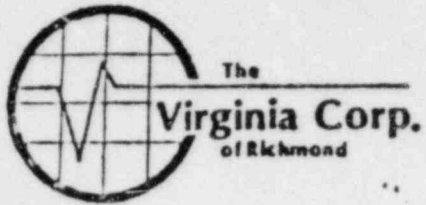
Additional Comments/Sketch

Ultrasonic Examination Report - Continuation Sheet



Customer LP 3L	Plant WATERFORD	Unit 3	Loop/ Zone 2 / 22	Iso/Drawing No. ZONE 22, REV. 2, FC 1
Procedure FC.1 151-27 REV. 0	Exam Surface OD	Examiner/Level BURLINGAME II		VCR Supervisor <i>Don Payne</i>
Component/Piping System SHUTDOWN COOLING			Pipe Size 14"	Weld Type BUTT
Cal. Block				Couplant: Type & Batch # UT-119, 1.125" SNOTRACE 40th 8119
			Date 3-23-82	

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
22-002	YES	NA	NA	NA	YES	CLEAN	GROUND	NI	SAT		
22-006	YES	I	I	I	YES	CLEAN	GROUND	NI	SAT		
22-008	YES	I	I	I	YES	CLEAN	GROUND	NI	SAT		
22-009	YES	I	I	I	YES	CLEAN	GROUND	NI	SAT		
22-012	YES	I	I	I	YES	CLEAN	GROUND	NI	SAT		
22-014	YES	I	I	I	YES	CLEAN	GROUND	NI	SAT		



Ultrasonic Examination Report *Don Payne ANII 3/25/82*

Customer LP&L		Plant WATERFORD		Unit 3	Loop/Zone 2 / 22	Iso/Drawing No. ZONE 22, REV. 2, FS 1	
Procedure FC 1		Exam Surface OD	Examiner/Level BURLINGAME II		VCR Supervisor <i>Don Payne</i>		Date 3-23-82
Component/Piping System SHUTDOWN COOLING			Pipe Size 14"	Weld Type BUTT	Cal. Block UT-119	Couplant: SONOTRACE Type 40 Batch No B119	

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No **FC-1**
 If Yes, Number

	Transducer	0°	45°	60°	Instrument			
	S/N	NA	D01946	NA	Mfg.	SONIC	Model	ETS, MK-1
	Size		1/2"		S/N	03704E	RepRate	1000
	Frequency		2.25 MHz		Reject	OFF	Filter	OFF
	Beam Angle	↓	45°	↓	Damp	MIN	Coax	12'
					Freq.	2.25 MHz	Video	NORM

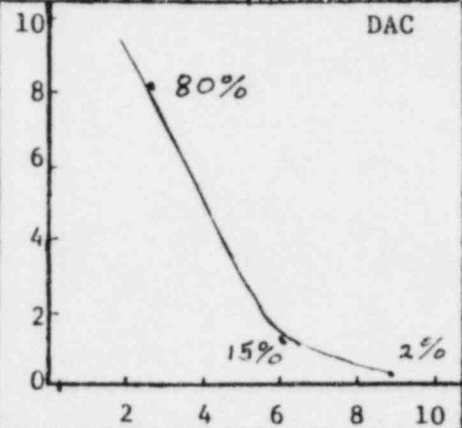
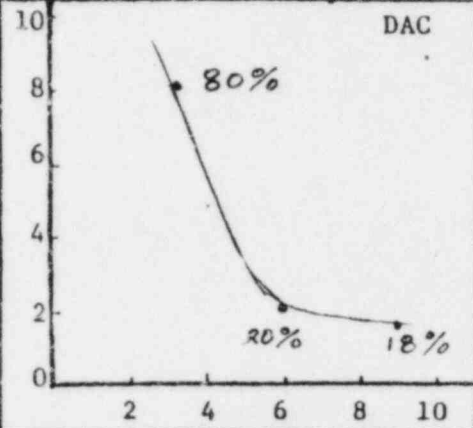
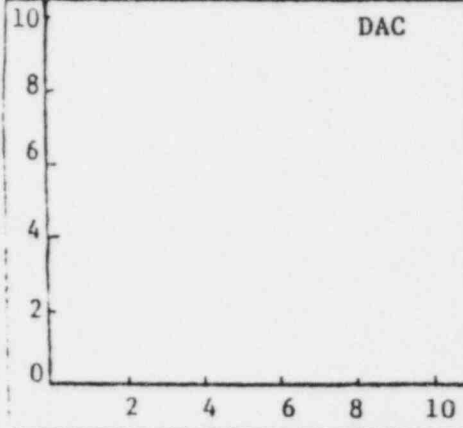
Calibration 0°

2 & 5 Scan

7 & 8 Scan

Freq. 2.25 MHz Video NORM

Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:			Signal Amp.	Sweep	Sound Entry Point To:			Calibration Checks												
					Scribe Line	50% DAC				Scribe Line	50% DAC		0°		45°		60°								
						In	Out				In	Out	In	Out											
1T	NA	NA	80%	3	NA	NA	NA	80%	3	NA	NA	NA													
2T			20%	6				15%	6.1																
3T			18%	9				2%	9.2																
Ref. dB			45 dbG					53 dbG																	



Additional Comments/Sketch

Don Payne ANEI 3/25/82

Ultrasonic Examination Report - Continuation Sheet

Page 2 of 2



Customer LP3L		Plant WATERFORD		Unit 3	Loop/ Zone 2 22	Iso/Drawing No. ZONE 22, REV. 2, FC 1	
Procedure FC 1 ISI 2.7 REV. 0	Exam Surface OD	Examiner/Level BURKINS/ME-II			VCR Supervisor <i>Daniel Jones</i>		Date 3-23-82
Component/Piping System SHUTDOWN COOLING			Pipe Size 14"	Weld Type BUTT	Cal. Block Couplant: Type & Batch # UT-119, 1.125" SONOTRACE 40 # 8119		

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
22-002	NA	YES	YES	YES	NA		CLEAN	GROUND	NI	SAT	
22-006	I	YES	YES	YES	I		CLEAN	GROUND	NI	SAT	
22-008	I	YES	YES	YES	I		CLEAN	GROUND	NI	SAT	
22-009	I	YES	YES	YES	I		CLEAN	GROUND	NI	SAT	
22-012	I	YES	YES	YES	I		CLEAN	GROUND	NI	SAT	
22-014	I	YES	YES	YES	I		CLEAN	GROUND	NI	SAT	



D. Payne ANI E 5/11/82
 Ultrasonic Data Sheet
 for
 Thickness Measurement

Customer LP+L	Plant Waterford	Unit 3	Loop/Zone 2A/22
Component/Piping System Shutdown Cooling from 2A Hot Leg	Examiner/Level Richard D II	Date 5-5-82	
Procedure ISI 2.5 Rev. 0	Iso/Drawing No. Zone 22 Rev. 2 E.C. 2	VCR Supervisor Daniel Jones	Continuation Sheet Attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Equipment

Instrument		Transducer		Calibration
Mfgr. Sonic	Mfgr. KB-Aerotech	Size .50"	Cal. Block UT-119	
Model ETS Mark I	Freq. 2.25 Mhz		Cal. Block NA	
S/N 780836	Serial No. KB 2728		Range Cal. 7 div. = 1.125"	
Reject off	Coax. Cable 6'		Calibration Checks	
Damp. Min.	Gain 70 dB		IN - 1:00 PM	
Freq. 2 Mhz			OUT - 3:00 PM	
Rep. Rate 1K				
Filter High				
Video Norm				
Couplant Sonotrace 40, #8119				

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
22-023	2	1.216"	1.216"	1.248"	NA	NA	NA	NA	NA
	4	1.280	1.184	1.216					
	6	1.280	1.216	1.248					
	8	1.216	1.376	1.248					
	10	1.248	1.248	1.216					
X	12	1.280	1.152	1.216					
22-024	2	1.120	1.248	1.184					
	4	1.248	1.248	1.248					
	6	1.120	1.280	1.248					
	8	1.120	1.248	1.248					
	10	1.152	1.248	1.152					
Y	12	1.184	1.280	1.280	Y	Y	Y	Y	Y

Sketch/Identification



The
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Ultrasonic Examination Report *D. Payne ANIZ 5/11/82*

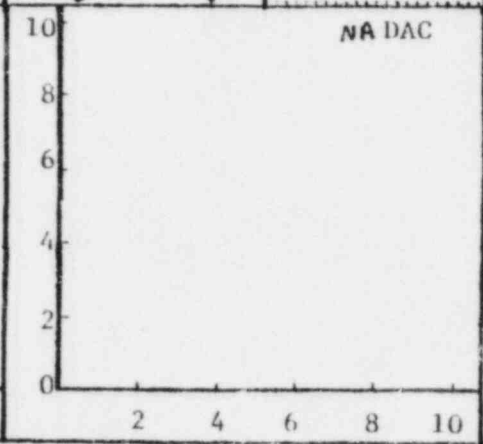
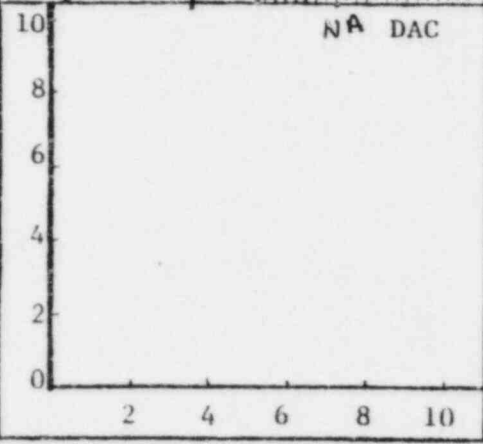
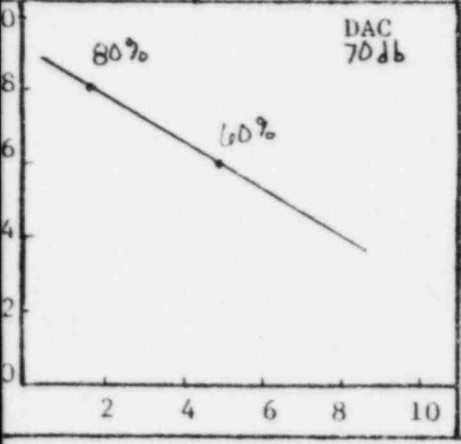
Customer LP&L		Plant WATERFORD		Unit 3	Loop/Zone 2A/22	Iso/Drawing No. ZONE 22 Rev 2 FC 2	
Procedure ISI 2.7 Rev D, FC 2		Exam Surface O.D.	Examiner/Level <i>Richard D. [Signature]</i>		VCR Supervisor <i>Daniel [Signature]</i>		Date 5-5-82
Component/Piping System Shutdown Cooling Loop 2A			Pipe Size 14"	Weld Type BUTT	Cal. Block UT-119	Couplant: SONOTRACE	Batch No. 8119

Continuation Sheet Attached
 Yes No

Field Changes:
Yes No
If Yes, Number **F.C. 2**

	Transducer			Instrument			
	S/N	KB272B	NA	Mfr.	Sonic	Model	FTS MARK I
	Size	.50"		S/N	780836	RepRate	1000
	Frequency	2.25MHz		Reject	OFF	Filter	HIGH
	Beam Angle	0°	↓	Damp	MIN	Coax	6'

Calibration 0°			2 & 5 Scan					7 & 8 Scan					Calibration Checks					
Reflection Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:			Signal Amp.	Sweep	Sound Entry Point To:			0°		45°		60°	
					Scribe Line	50% DAC				Scribe Line	50% DAC		In	Out	In	Out	In	Out
1AT	80%	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1300	1500	NA	NA	NA	NA
3AT	60%	4.9																



Additional Comments/Sketch



Ultrasonic Examination Report

D. Payne ANII 5/11/82

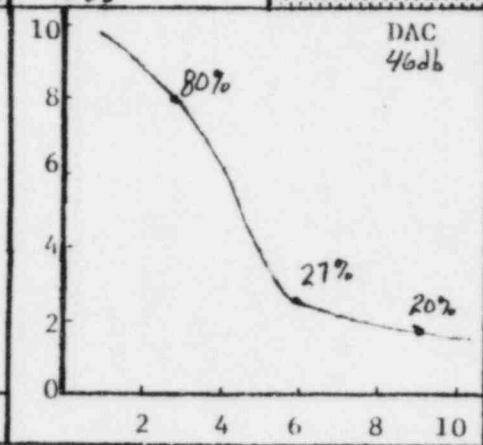
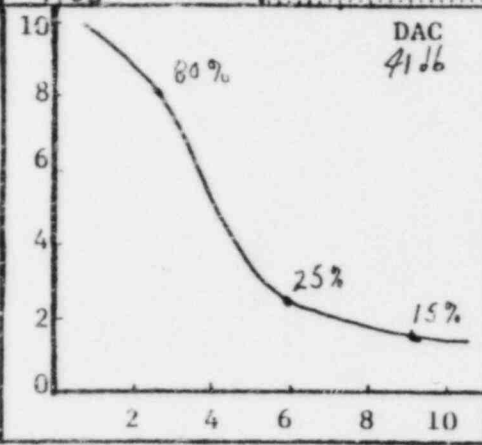
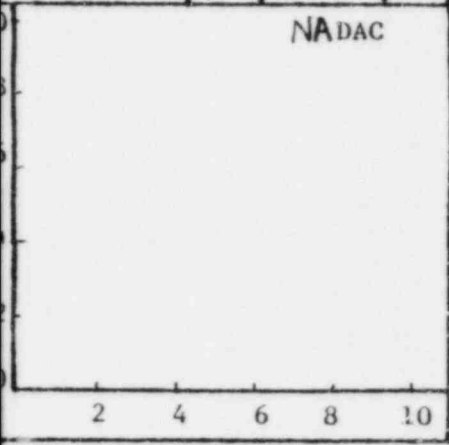
Customer <i>LPCL</i>		Plant <i>WATERFORD</i>		Unit <i>3</i>	Loop/Zone <i>2A/22</i>	Iso/Drawing No. <i>ZONE 22, REV. 2, F.C. 2</i>	
Procedure <i>ISI-2.7, REV. 0, F.C. 2</i>		Exam Surface <i>O.D.</i>	Examiner/Level <i>Richard DeL...</i>		VGR Supervisor <i>Daniel...</i>	Date <i>5-5-82</i>	
Component/Piping System <i>SHUT DOWN COOLING LOOP 2A</i>		Pipe Size <i>14"</i>	Weld Type <i>BUTT</i>	Cal. Block <i>UT-119</i>	Couplant: <i>SONOTRACE</i> Type <i>40</i> Batch No. <i>8119</i>		

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 If Yes, Number *FC 1*

Transducer		0°	45°	60°	Instrument			
S/N		<i>NA</i>	<i>D22083</i>	<i>NA</i>	Mfr.	<i>SONIC</i>	Model	<i>FIS Model 1</i>
Size			<i>.5"</i>		S/N	<i>03704E</i>	RepRate	<i>1000</i>
Frequency			<i>2.25 MHz</i>		Reject	<i>OFF</i>	Filter	<i>HIGH</i>
Beam Angle		<i>▼</i>	<i>44°</i>	<i>▼</i>	Damp	<i>M/W</i>	Coax	<i>Co</i>
					Freq.	<i>2 MHz</i>	Video	<i>None</i>

Calibration 0°				2 & 5 Scan				7 & 8 Scan				Calibration Checks							
Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:			Signal Amp.	Sweep	Sound Entry Point To:			0°		45°		60°		
					Scribe Line	50% DAC				Scribe Line	50% DAC		In	Out	In	Out	In	Out	
<i>1T</i>	<i>NA</i>	<i>NA</i>	<i>80%</i>	<i>3.0</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>80%</i>	<i>3.0</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>1312</i>	<i>1455</i>	<i>NA</i>	<i>NA</i>
<i>2T</i>			<i>25%</i>	<i>6.0</i>				<i>27%</i>	<i>6.0</i>										
<i>3T</i>			<i>15%</i>	<i>9.0</i>				<i>20%</i>	<i>9.0</i>										
			<i>41 dB</i>				<i>46 dB</i>												



Additional Comments/Sketch

D. Payne ANE 5/11/82

Ultrasonic Examination Report - Continuation Sheet

Page 4 of 5



The Virginia Corp.
of Richmond

Customer LP&L	Plant WATERFORD	Unit 3	Loop/ Zone 2A/22	Iso/Drawing No. 22 Rev 2 FC-2
Procedure ISI 2.7 REV. 0 FCZ	Exam Surface OD	Examiner/Level Richard Debraun II	VCR Supervisor Daniel Jones	Date 5-5-82
Component/Piping System SHUTDOWN Cooling Loop 2A	Pipe Size 14"	Weld Type BuTT	Cal. Block WT-119	Couplant: Type & Batch # SANDTRACE 40 #B119

Weld No.	Base Metal Scan	Scan Direction	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
			2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
22	023	PAR	PAR	VES	VOS	VPS	See Attached Sheets	GROUND	GROUND	Ni	SAT	
22	024	PAR	PAR	PAR	PAR	PAR	See Attached Sheets	GROUND	GROUND	Ni	SAT	



The
Virginia Corp.
of Richmond

Date 5-5-62

Page 5 of 5

To: _____

Subject Partial scans
made 27-023 and 27-024

27-023

Base metal seam - partial seam on 2 side of work
from 14" to 24" due to a whip restraint

2 seam - Partial from 14" to 24" due to a whip restraint

28-024

Base metal seam - partial from 14" to 24" due to a whip
restraint

2 seam - partial from 14" to 24" due to a whip restraint

5 seam - partial from 14" to 24" due to a whip restraint

7th seam - partial from 14" to 24" due to a whip restraint

0 seam - partial from 14" to 24" due to a whip restraint

Signed [Signature]



Ultrasonic Examination Report *D. Payne ANEI 9/1/82*

Customer L.P.+L.		Plant Waterford	Unit #3	Loop/Zone 2A/22	Isodrawing No. Zone 22, R.2, FC.2.
Procedure I-27.R.O.FC.2	Exam Surface Q.D.	Examiner/Level Kevin White/II		VGR Supervisor Donald Jones	Date 5-26-82
Component/Piping System Shutdown Cooling from loop 2A Hot leg.		Pipe Size 14"	Weld Type Butt	Cal. Block UT-119	Couplant: Type Sono 40 Batch No. 8124

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 If Yes, Number **2**

	Transducer			Instrument		
	0°	45°	60°	Mfer.	Model	Mark I
	S/N KB2128	NA	NA	S/N 780836	RepRate 1K	
	Size 1/2"			Reject off	Filter off	
Frequency 2.25MHz			Damp Min.	Coax 6'		
Beam Angle 0			Freq. 2	Video Norm		

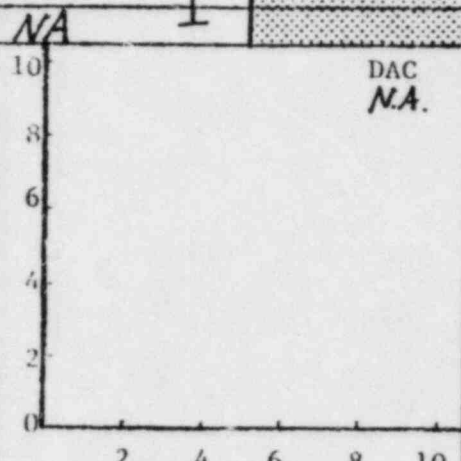
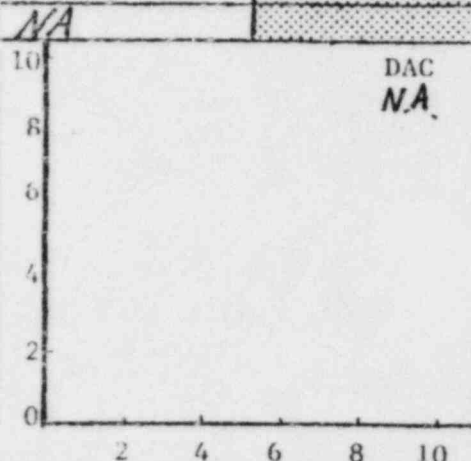
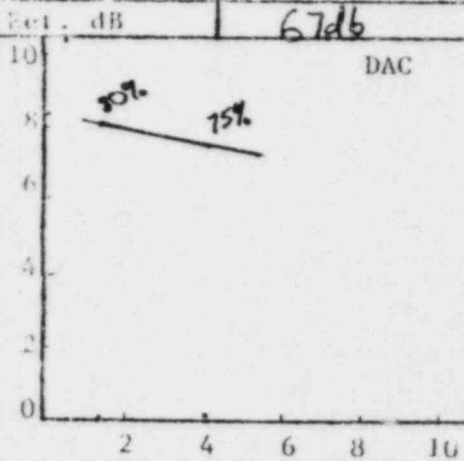
Calibration 0°

2 & 5 Scan

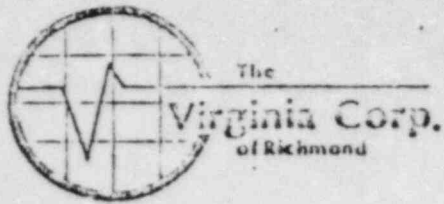
7 & 8 Scan

Calibration Checks

Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		Calibration Checks					
					Scribe Line	50% DAC			Scribe Line	50% DAC	0°		45°		60°	
											In	Out	In	Out	In	Out
1/4T	80%	1.3	NA	NA	NA		NA	NA	NA		1:25 PM	3:30 PM	NA	NA	NA	NA
3/4T	75%	4.0														



Additional Comments/Sketch
Reexamined After Restraint was removed



Ultrasonic Examination Report *D. Payne ANII 6/1/82*

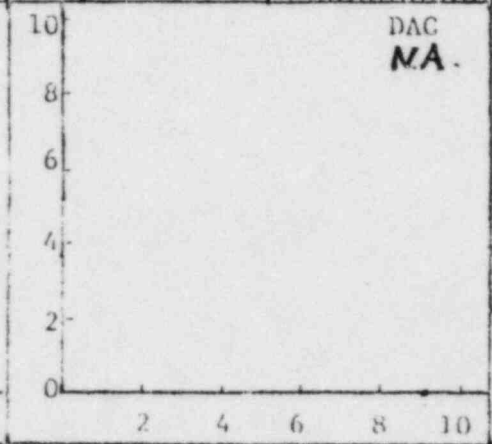
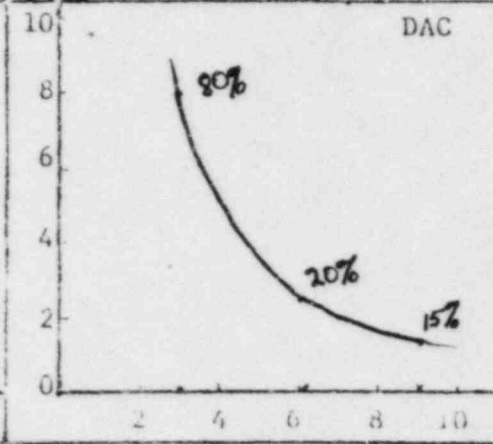
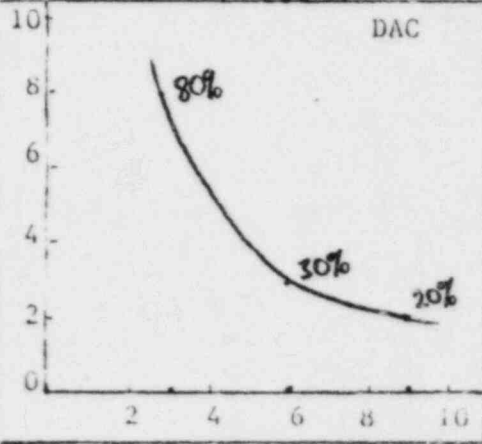
Customer L.P.+L.	Plant Waterford	Unit #3	Loop/Zone/iso/Drawing No. 2A/22 Zone 22, R.2, FC.2.
Procedure ISI-2.7.R.OFC.2	Exam Surface OD.	Examiner/Level Kenn White/1#	VCR Supervisor Donald Jones
Component/Piping System Shutdown Cooling from loop 2A Hot leg		Pipe Size 14"	Weld Type Butt
		Cal. Block UT-119	Couplant: Type Sono.40 Batch No 8124
		Date 5-26-82	

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 If Yes, Number **2**

Transducer	30°	45°	60°	Instrument			
S/N	NA	D22063	NA	Mfr.	Sonics	Model	Mark I
Size		1/2"		S/N	05473E	RepRate	1K
Frequency		2.25MHz		Reject	off	Filter	off
Beam Angle		45°		Damp	Min.	Coax	6'
				Freq.	2	Video	Norm

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
1T	NA	NA	80%	3.0	NA		80%	3.0	NA		NA	NA	1:30 PM	3:30 PM	NA	NA
2T			30%	6.0			20%	6.1								
3T			20%	9.0			15%	9.2								
Ref. dB	NA		37db				40db									



Additional Comments/Sketch



Ultrasonic Examination Report - Continuation Sheet

Customer L.P.+L.		Plant Waterford		Unit # 3	Loop/Zone 2A/22	Iso/Drawing No. Zone 22, R2, FC.2	
Procedure ISI-27, R0, FC.2		Exam Surface OD.	Examiner/Level Kwin White/II		VGR Supervisor <i>[Signature]</i>	Date 5-26-82	
Component/Piping System Shutdown Cooling from loop 2A Hot leg			Pipe Size 14"	Weld Type Butt	Cal. Block UT-119	Couplant: Type & Batch # Sonotrace 40 Batch #8124	

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
22-023	Yes	Yes	Yes	Yes	Par.	O scan, partial due to the weld contour.	Smooth	Smooth	NI	Sat.	
22-024	Yes	Yes	Yes	Yes	Par	O scan, partial due to the weld contour.	Smooth	Smooth	NI.	Sat.	



D. Payne ANEI 5/17/82
 Ultrasonic Data Sheet
 for
 Thickness Measurement

Customer LP+L	Plant Waterford	Unit # 3	Loop/Zone 2A/22
Component/Piping System <i>Shutdown cooling line from loop 2A Hot leg</i>	Examiner/Level <i>Kevin White/II</i>	Date 5-13-82	
Procedure ISI-2.5 REV 0	Iso/Drawing No. ZONE 22 FL. 2, R.D.	VCR Supervisor <i>Daniel Jensen</i>	Continuation Sheet Attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Equipment

Instrument	Transducer	Calibration
Mfgr. SONICS	Mfgr. Aerotech	Cal. Block UT 119
Model MARK I	Size 1/2"	Cal. Block NA
S/N 780836	Freq. 2.25 MHz	Range Cal. 1.875
Reject off	Serial No. KB 2728	Calibration Checks IN 1:15 ^{PM} OUT 4:20 ^{PM}
Damp. M/N	Coax. Cable 6' BNC to PL	
Freq. 2.25	Gain 71 db	
Rep. Rate 1K		
Filter off		
Video Norm		
Couplant 60NITRAL 40 Batch #2119		

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
22-053	2	1.312	1.237	1.275	22-061	2	1.237	1.275	1.200
22-053	4	1.200	1.275	1.237	22-061	4	1.162	1.312	1.162
22-053	6	1.200	1.275	1.237	22-061	6	1.162	1.275	1.162
22-053	8	1.275	1.275	1.275	22-061	8	1.125	1.200	1.125
22-053	10	1.275	1.237	1.275	22-061	10	1.200	1.200	1.182
22-053	12	1.275	1.237	1.275	22-061	12	1.237	1.237	1.200
22-055	2	1.237	1.237	1.200					
22-055	4	1.237	1.200	1.275					
22-055	6	1.237	1.275	1.237					
22-055	8	1.200	1.125	1.275					
22-055	10	1.237	1.200	1.237					
22-055	12	1.237	1.237	1.275					

Sketch/Identification



The
Virginia Corp.
 of Richmond

Ultrasonic Examination Report

D. Payne ANZI 5/17/82

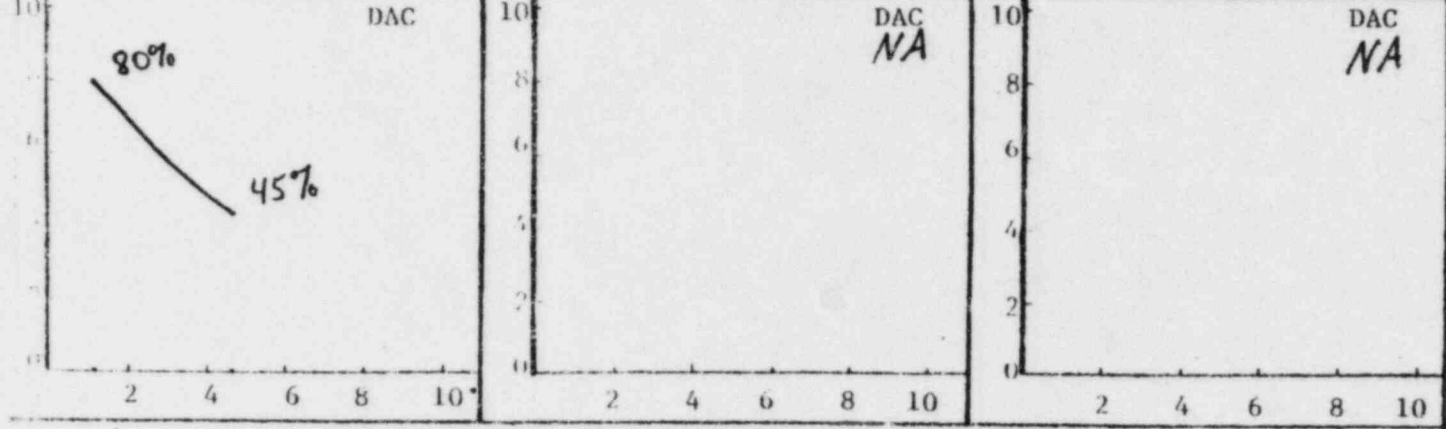
Customer L.P.+L.	Plant Waterford	Unit #3	Loop/Zone 2A/22	Iso/Drawing No. Zone 22, R.2, FC.2
Procedure ISI-2.7, FC.2, R.O	Exam Surface O.D.	Examiner/Level Kevin White/II		VCR Supervisor Daniel Jones
Component/Piping System Shutdown Cooling line from loop 2A Hot leg		Pipe Size 14"	Weld Type Butt	Date 5-13-82
Cal. Block # UT-119		Couplant: Type Sono. 40 Batch No. 8119		

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 If Yes, Number 2

Transducer	0°	45°	60°	Instrument				
	S/N	KB2728	NA	NA	Mfr.	Sonics	Model	Mark I
	Size	1/2"			S/N	780836	RepRate	1K
	Frequency	2.25mhz			Reject	OFF	Filter	off
Beam Angle	0			Damp	Min.	Coax	G'BNC-PC	
				Freq.	2.25	Video	Norm	

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
1/4T	80%	1.2	NA	NA	NA		NA	NA	NA		1:15 PM	4:20 PM	NA	NA	NA	NA
3/4T	45%	4.5														



Additional Comments/Sketch

M.R. Martin, ANII 3-28-83



Ultrasonic Examination Report - Continuation Sheet

Page of

Customer LP&L	Plant WATERFORD	Unit 3	Loop/ Zone 2A/22	Isd/Drawing No. ZONE 22 REV. 2 F.C.Z
Procedure ISI-2.7 R.O.F.C.Z	Exam Surface O.D.	Examiner/Level Kevin White/II	VCR Supervisor Daniel Jensen	Date 5-13-82
Component/Piping System SHUTDOWN COOLING FROM LOOP 2A	Pipe Size 14"	Weld Type BUTT	Cal. Block UT-119	Couplant: Type & Batch # SONOTRACE 40 #8119

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
22-053	Par	NA	NA	NA	Par	Base metal scan, partial due to the valve body on the 2 sides.	Smooth	Ground	NI	Sat.	None.
						O scan, partial due to O.D. weld geometry causing approx 10% loss of contact at the surface.					
22-055	Par	NA	NA	NA	Par	Base metal scan, partial due to the valve body on the 5 side.	Smooth	Ground	NI	Sat.	None
						O scan, partial due to O.D. weld geometry causing approx 10% loss of contact at the surface.					
22-061	Par.	NA	NA	NA	Par	Base metal scan, partial due to the valve body on the 2 side.	Smooth	Ground	NI	Sat.	None
						O scan, partial due to O.D. weld geometry causing approx 10% loss of contact at the surface.					



Ultrasonic Examination Report *D. Payne ANII 5/17/82*

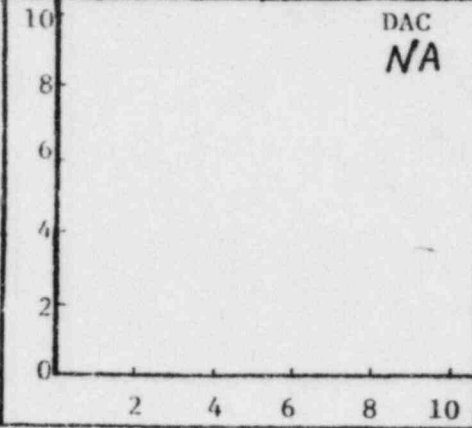
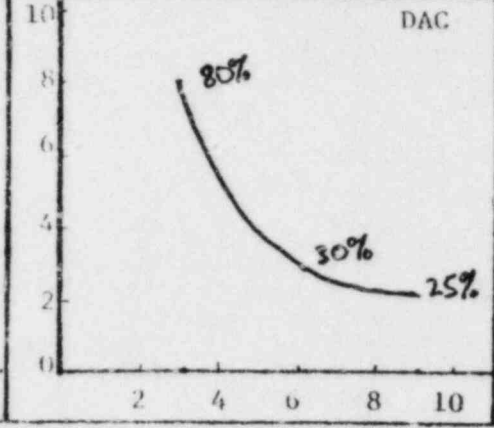
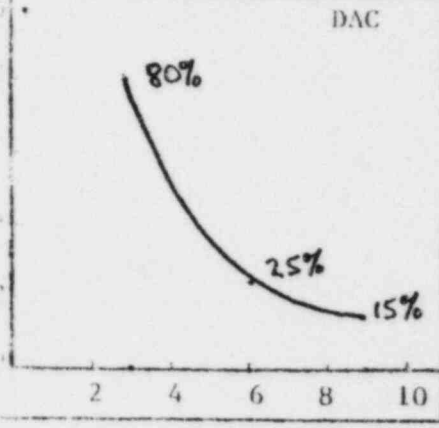
Customer LP+L.	Plant Waterford	Unit #3	Loop/Zone 2A/22	Iso/Drawing No. Zone 22, R.2, F.C.2.
Procedure ISI-2.7, F.C.2.R0	Exam Surface C.D.	Examiner/Level Kevin White/II		VCR Supervisor Daniel Jones
Component/Piping System Shutdown Cooling line from loop 2A Hot leg		Pipe Size 14"	Weld Type Butt	Date 5-14-82
		Cal. Block UT-119	Couplant: Type Sono 40 Batch No. 8119	

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 If Yes, Number **2**

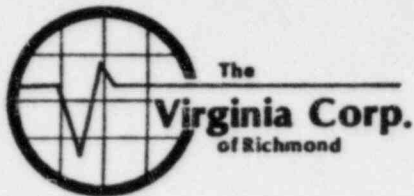
Transducer	0°	45°	60°	Instrument			
	NA	G07150	NA	Mfr.	Sonics	Model	Mark I
S/N	NA	1/2"	NA	S/N	05473E	RepRate	1K
Size	NA	2.25 MHz	NA	Reject	off	Filter	off
Frequency	NA	45°	NA	Damp	Min.	Coax	6'
Beam Angle	NA	2.25	NA	Freq.	2.25	Video	Norm.

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
1T	NA	NA	80%	3.0	NA		80%	3.1	NA		NA	NA	7:40 AM	9:15 AM	NA	NA
2T	NA	NA	25%	6.0	NA		30%	6.2	NA							
3T	NA	NA	15%	9.0	NA		25%	9.2	NA							
4B	NA	NA	40db	NA	NA		49db	NA	NA							



Additional Comments/Sketch

M.R. Martin, ANFI 3-28-83

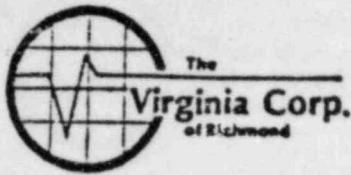


Ultrasonic Examination Report - Continuation Sheet

Page of

Customer LP&L	Plant WATERFORD	Unit 3	Loop/ Zone ZA/22	Iso/Drawing No. ZONE 22 REV. 2 FC. 2
Procedure ISI-27 R.O.F.C. 2	Exam Surface O.D.	Examiner/Level Kevin White, II	VCR Supervisor Daniel Jensen	Date 5-14-82
Component/Piping System SHUTDOWN COOLING FROM LOOP ZA	Pipe Size 14"	Weld Type BUTT	Cal. Block UT-119	Couplant: Type & Batch # SONOTRACE 40 # 8119

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
22-053	NA	No	Yes	Par	NA	2 scan, No due to the valve body on the 2 side.	Smooth	Ground	NI	Sat.	None
						7+8 scan, partial due to O.D. weld geometry causing approx. 10% loss of contact at the surface.					
22-055	NA	Yes	No	Par	NA	5 scan, No due to the valve body on the 5 side.	Smooth	Ground	NI	Sat.	None
						7+8 scan, partial due to O.D. weld geometry causing approx. 10% loss of contact at the surface.					
22-061	NA	No	Yes	Par	NA	2 scan, No due to the valve body on the 2 side.	Smooth	Ground	NI	Sat.	None
						7+8 scan, partial due to O.D. weld geometry causing approx. 10% loss of contact at the surface.					



D. Payne ANII 5/26/82
 Ultrasonic Data Sheet
 for
 Thickness Measurement

Customer LP&L	Plant WATERFORD	Unit 3	Loop/Zone 2 22
Component/Piping System SHUTDOWN COOLING FROM LOOPS		Examiner/Level Sam Hargreaves II	Date 5-21-82
Procedure I.S.I. 2.5 R-0	Iso/Drawing No. ZONE 22 R-2, FC 2	VCR Supervisor Daniel Jones	Continuation Sheet Attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Equipment

Instrument		Transducer		Calibration
Mfgr. SONIC	Mfgr. PANAMETRICS	Size .5" DIA.	Cal. Block UT-119	
Model MARK I			Cal. Block	
S/N 05973E	Freq. 3.5 MHZ.		Range Cal. 1.60	
Reject OFF			Calibration Checks	
Damp. MIN.	Serial No. 91873		CAL. IN - 10:00	
Freq. 2 MHZ.			CAL. OUT - 11:30	
Rep. Rate 1K	Coax. Cable 6'			
Filter H1				
Video NORM	Gain 58 dB			
Couplant SONOTRACE 40 #8119				

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
22-004	12	1.302	1.286	1.366	NA	NA	NA	NA	NA
22-004	2	*	*	1.398					
22-004	4	*	*	1.205					
22-004	6	1.286	1.238	1.254					
22-004	8	1.286	1.238	1.189					
22-004	10	1.286	1.254	1.286					

Sketch/Identification

* RESTRAINT COVERING 2 SIDE, WELD AND
 1/2" OF HAZ ON THE 5 SIDE. FROM DATUM
 TO 22 1/8" IN 7 DIRECTION
 Additional drawing to explain partial



The
Virginia Corp.
of Richmond

Ultrasonic Examination Report *D. Payne ANII 5/29/82*

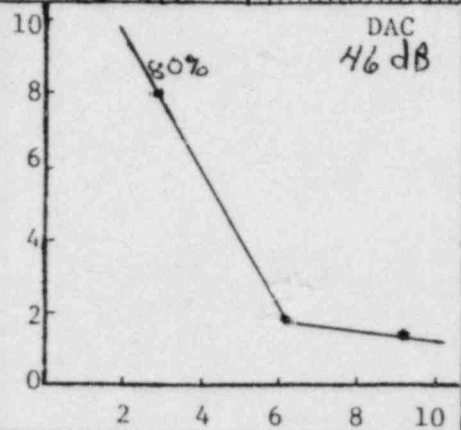
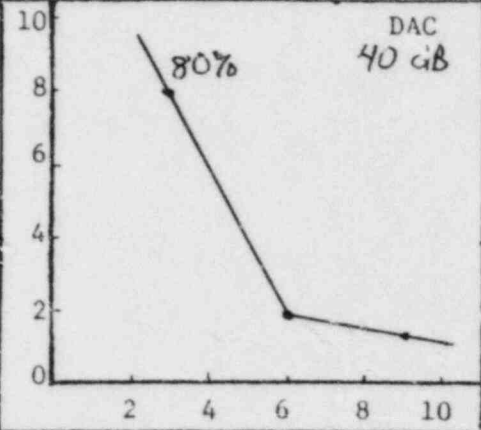
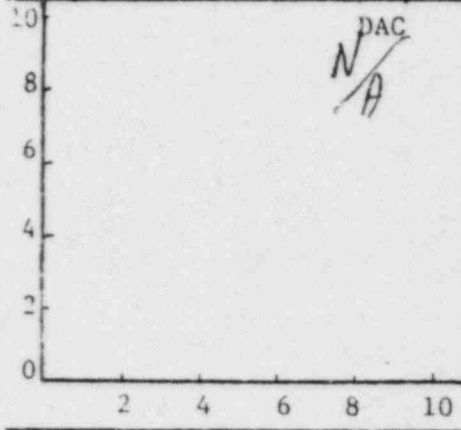
Customer <i>LP&L</i>		Plant <i>Waterford</i>		Unit <i>3</i>	Loop/Zone <i>2A/22</i>	Iso/Drawing No. <i>Zone 22, Rev. 2, EC. 2</i>	
Procedure Rev. 0 <i>IST 2.7 EC. 2</i>	Exam Surface <i>O.D.</i>	Examiner/Level <i>Say Longenecker II</i>		VCR Supervisor <i>Daniel Dens</i>		Date <i>5-25-82</i>	
Component/Piping System <i>Shutdown Cooling from loop 2d Hot leg</i>			Pipe Size <i>14"</i>	Weld Type <i>Butt</i>	Cal. Block <i>UT-119</i>	Couplant: <i>Senotrace</i> Type <i>40</i> Batch No <i>8119</i>	

Continuation Sheet Attached
Yes No

	Transducer	0°	45°	60°	Instrument			
	S/N	<i>N/A</i>	<i>F18164</i>	<i>N/A</i>	Mfr.	<i>Sonic</i>	Model	<i>FTS Mark I</i>
	Size		<i>.50"</i>		S/N	<i>03704E</i>	RepRate	<i>1K</i>
	Frequency		<i>2.25 MHz</i>		Reject	<i>off</i>	Filter	<i>Hi</i>
	Beam Angle	↓	<i>45°</i>	↓	Damp	<i>Min</i>	Coax	<i>6'</i>
				Freq.	<i>2 MHz</i>	Video	<i>Norm</i>	

Field Changes:
Yes No
If Yes, Number *2*

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks						
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°		
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out	
<i>1T</i>	<i>N/A</i>	<i>N/A</i>	<i>80%</i>	<i>3.0</i>	<i>N/A</i>	<i>N/A</i>	<i>80%</i>	<i>3.0</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>1135</i>	<i>1230</i>	<i>N/A</i>	<i>N/A</i>
<i>2T</i>			<i>20%</i>	<i>6.0</i>			<i>20%</i>	<i>6.1</i>									
<i>3T</i>			<i>15%</i>	<i>9.0</i>			<i>15%</i>	<i>9.2</i>									
					↓	↓			↓	↓							
Ref. dB	↓	↓					<i>40 dB</i>					↓	↓				↓



Additional Comments/Sketch



Ultrasonic Examination Report *D. Payne ANII 5/26/82*

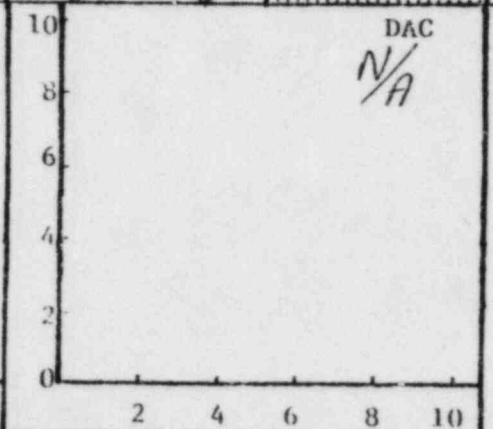
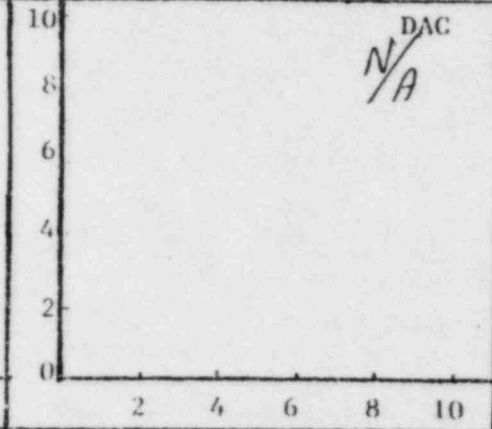
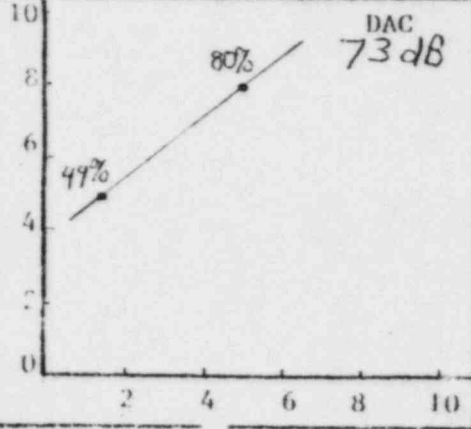
Customer <i>LPV</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>2A/22</i>	Iso/Drawing No. <i>Zone 22 Rev 2, F.C. 2</i>
Procedure <i>ISI 2.7 F.C. 2</i>	Exam Surface <i>O.D.</i>	Examiner/Level <i>Nary Hogenackel II</i>	VCR Supervisor <i>Daniel Jensen</i>	Date <i>5-25-82</i>
Component/Piping System <i>Shutdown Cooling from loop 2A Hot leg</i>	Pipe Size <i>14"</i>	Weld Type <i>Butt</i>	Cal. Block # <i>UT-119</i>	Couplant: <i>Sonotrace</i> Type <i>40</i> Batch No. <i>8119</i>

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 IF Yes, Number *2*

Transducer S/N Size Frequency Beam Angle	0°	45°	60°	Instrument			
	<i>KB2897</i>	<i>N/A</i>	<i>N/A</i>	Mfr.	<i>Sonic</i>	Model	<i>FIS Mark I</i>
	<i>.50"</i>			S/N	<i>05473E</i>	RepRate	<i>1K</i>
	<i>5 Mhz</i>			Reject	<i>off</i>	Filter	<i>H</i>
	<i>0°</i>			Damp	<i>Min</i>	Coax	<i>6'</i>
				Freq.	<i>5 Mhz</i>	Video	<i>Norm</i>

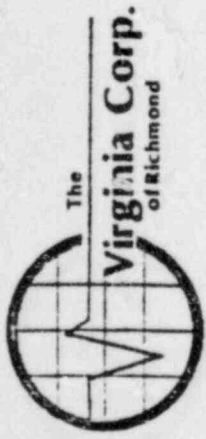
Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks								
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:			Signal Amp.	Sweep	Sound Entry Point To:			0°		45°		60°		
					Scribe Line	50% DAC				Scribe Line	50% DAC		In	Out	In	Out	In	Out	
<i>1/4 T</i>	<i>49%</i>	<i>1.5</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>1125</i>	<i>1225</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>
<i>3/4 T</i>	<i>80%</i>	<i>4.8</i>																	
<i>1 T</i>	<i>N/A</i>	<i>7.0</i>																	
Ref. dB	<i>73 dB</i>																		



Additional Comments/Sketch

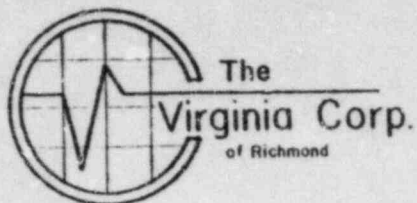
D. Payne ANFI 5/26/02

Ultrasonic Examination Report - Continuation Sheet Page 3 of 3



Customer <i>L.P.L.</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>3A/22</i>	Iso/Drawing No. <i>Zone 22 Rev 2 E.S. 2</i>
Procedure Rev 0	Exam Surface <i>O.D.</i>	Examiner/Level <i>David Dene</i>	VCR Supervisor <i>David Dene</i>	Date <i>5-25-02</i>
ISI 27 E.S. 2	Component/Piping System <i>Shutdown Cooling from 3A 1/2 leg</i>	Pipe Size <i>14"</i>	Cal. Block <i>UT-119</i>	Complant: Type & Batch # <i>Spec trace 40 # 819</i>

Weld No.	Base Metal Scan	Scan Direction		Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5		Base Metal	Weld	UT	Visual	
22-004	NA	Par	Par	Base metal no coverage on 2 side from datum to 22 1/8" in 7 directions. 2 scan no from datum to 22 1/8" in 7 direction. 5 scan from datum to 22 1/8" in 7 direction for a loss of approx 10% coverage. 0, 7 & 8 scans from datum to 22 1/8" in 7 direction had a loss of approx 90% coverage and from 22 1/8" to datum, loss of approx 5% coverage	Clean	Ground	NI	Sat	



WELD NO. 22-009

WHIP RESTRAINT

Z SIDE

H.A.Z.

S SIDE

- AREA OF H.A.Z. NOT COVERED BY 5 SCAN FROM 0" TO 22" IN 7 DIR.
2 SCAN NO FROM 0" TO 22" IN. 7 DIRECTION.



Ultrasonic Examination Report *D. Payne ANII 6/2/82*

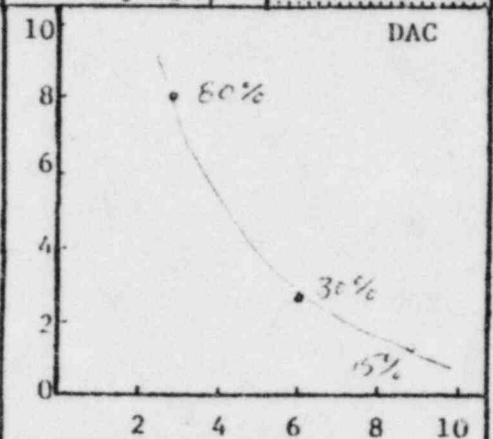
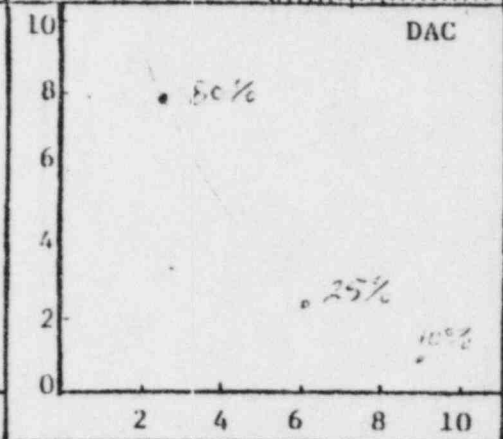
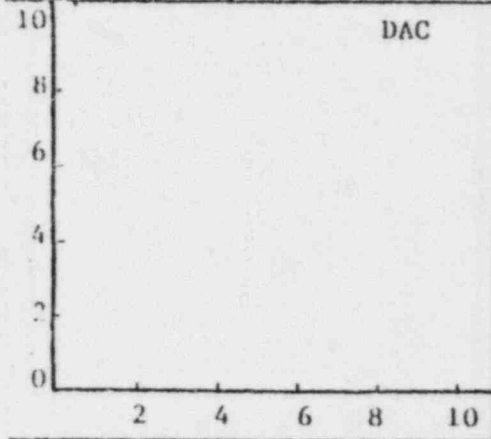
Customer <i>LP 3 L</i>		Plant <i>WATERFORD</i>		Unit <i>3</i>		Loop/Zone <i>2, 22</i>		Iso/Drawing No. <i>ZONE 22, REV. 2, FC-1</i>	
Procedure <i>FC-2</i>		Exam Surface <i>OD</i>		Examiner/Level <i>BORLINGHAME III</i>		VCR Supervisor <i>Daniel Jones</i>		Date <i>5-28-82</i>	
Component/Piping System <i>SHUT-DOWN COOLING</i>				Pipe Size <i>14'</i>		Weld Type <i>ROTT</i>		Cal. Block <i>UT-119</i>	
						Couplant: <i>SONOTRACE</i>		Type <i>40</i> Batch No. <i>8124</i>	

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 If Yes, Number *FC-2*

Transducer		<i>0°</i>	<i>45°</i>	<i>60°</i>	Instrument			
S/N		<i>NA</i>	<i>02440</i>	<i>NA</i>	Mfr.	<i>SONIC</i>	Model	<i>FIS-11A1</i>
Size			<i>1/2"</i>		S/N	<i>03204E</i>	RepRate	<i>1000</i>
Frequency			<i>2.25m</i>		Reject	<i>OFF</i>	Filter	<i>MIN</i>
Beam Angle		<i>2</i>	<i>45°</i>	<i>2</i>	Damp	<i>MIN</i>	Coax	<i>12'</i>
					Freq.	<i>2.0MHz</i>	Video	<i>NORM.</i>

Calibration 0°			2 & 5 Scan					7 & 8 Scan					Calibration Checks						
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:			Signal Amp.	Sweep	Sound Entry Point To:			0°		45°		60°		
					Scribe Line	50% DAC				Scribe Line	50% DAC		In	Out	In	Out	In	Out	
<i>1T</i>	<i>NA</i>	<i>NA</i>	<i>80%</i>	<i>3</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>80%</i>	<i>3.0</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>1410</i>	<i>1650</i>	<i>NA</i>	<i>NA</i>
<i>2T</i>			<i>25%</i>	<i>6</i>				<i>30%</i>	<i>6.1</i>										
<i>3T</i>			<i>10%</i>	<i>9</i>				<i>15%</i>	<i>9.2</i>										
Ref. dB	<i>~</i>		<i>46 dB</i>					<i>55 dB</i>						<i>~</i>	<i>~</i>			<i>~</i>	<i>~</i>



Additional Comments/Sketch

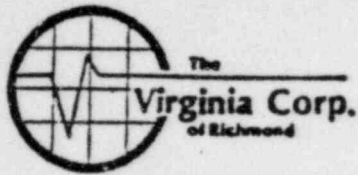


Ultrasonic Examination Report - Continuation Sheet

D. Payne ANII 6/2/82

Customer LP 3L	Plant WATERFORD	Unit 3	Loop/ Zone 2, 22	Iso/Drawing No. ZONE 22 REV. 2 FC-1
Procedure FC-2 1512.7 REVC	Exam Surface OD	Examiner/Level BURLINGAME II	VCR Supervisor Danilo Jones	Date 5-28-82
Component/Piping System SHUTDOWN COOLING	Pipe Size 14"	Weld Type BUTT	Cal. Block UT-119	Couplant: Type & Batch # SONOTRACE 40, 8124

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
22-	001	NA	YES	YES	YES	NA	CLEAN	GROUND	NI	SAT	
22-	015	NA	YES	YES	YES	NA	CLEAN	GROUND	NI	SAT	
22-	017	NA	YES	YES	YES	NA	CLEAN	GROUND	NI	SAT	
22-	021	NA	YES	YES	YES	NA	CLEAN	GROUND	NI	SAT	



R. Payne ANEI 6/2/82
 Ultrasonic Data Sheet
 for
 Thickness Measurement

Customer <i>L.P.+L</i>	Plant <i>Waterford</i>	Unit # <i>3</i>	Loop/Zone <i>2A/22</i>
Component/Piping System <i>Shutdown Cooling from loop 2A Hot leg</i>	Examiner/Level <i>Kevin White/II</i>	Date <i>5-28-82</i>	
Procedure <i>ISI-2.5, Rev 0.</i>	Iso/Drawing No. <i>Zone 22.R.2.F.C.2</i>	VCR Supervisor <i>Denise Jones</i>	Continuation Sheet Attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Equipment

Instrument		Transducer		Calibration
Mfgr. <i>Sonic</i>	Mfgr. <i>Panametrics</i>	Size <i>1/2"</i>	Cal. Block <i>UT-119</i>	
Model <i>Mark I</i>	Freq. <i>2.25 MHz</i>		Cal. Block	
S/N <i>05304E</i>	Serial No. <i>44651</i>		Range Cal. <i>1.406"</i>	
Reject <i>off</i>			Calibration Checks	
Damp. <i>Min</i>	Coax. Cable <i>6' BNC-Ac</i>		IN: <i>1400</i>	
Freq. <i>2</i>	Gain <i>59 db</i>		OUT: <i>16:50</i>	
Rep. Rate <i>1K</i>				
Filter <i>off</i>				
Video <i>Norm</i>				
Couplant <i>Sonotrace 48 Batch # 8/24</i>				

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
<i>22-001</i>	<i>2</i>	<i>1.153</i>	<i>1.209</i>	<i>1.266</i>	<i>22-017</i>	<i>2</i>	<i>1.181</i>	<i>1.181</i>	<i>1.265</i>
	<i>4</i>	<i>1.125</i>	<i>1.209</i>	<i>1.266</i>		<i>4</i>	<i>1.209</i>	<i>1.181</i>	<i>1.265</i>
	<i>6</i>	<i>1.125</i>	<i>1.209</i>	<i>1.266</i>		<i>6</i>	<i>1.153</i>	<i>1.209</i>	<i>1.153</i>
	<i>8</i>	<i>1.125</i>	<i>1.237</i>	<i>1.266</i>		<i>8</i>	<i>1.125</i>	<i>1.237</i>	<i>1.181</i>
	<i>10</i>	<i>1.125</i>	<i>1.251</i>	<i>1.266</i>		<i>10</i>	<i>1.125</i>	<i>1.209</i>	<i>1.153</i>
<i>22-015</i>	<i>12</i>	<i>1.125</i>	<i>1.237</i>	<i>1.266</i>	<i>22-021</i>	<i>12</i>	<i>1.209</i>	<i>1.209</i>	<i>1.209</i>
	<i>2</i>	<i>1.266</i>	<i>1.236</i>	<i>1.237</i>		<i>2</i>	<i>1.265</i>	<i>1.237</i>	<i>1.181</i>
	<i>4</i>	<i>1.266</i>	<i>1.293</i>	<i>1.237</i>		<i>4</i>	<i>1.265</i>	<i>1.153</i>	<i>1.237</i>
	<i>6</i>	<i>1.238</i>	<i>1.209</i>	<i>1.223</i>		<i>6</i>	<i>1.237</i>	<i>1.223</i>	<i>1.265</i>
	<i>8</i>	<i>1.238</i>	<i>1.153</i>	<i>1.181</i>		<i>8</i>	<i>1.237</i>	<i>1.181</i>	<i>1.237</i>
<i>10</i>	<i>10</i>	<i>1.209</i>	<i>1.187</i>	<i>1.181</i>	<i>10</i>	<i>1.265</i>	<i>1.209</i>	<i>1.181</i>	
	<i>12</i>	<i>1.238</i>	<i>1.237</i>	<i>1.209</i>	<i>12</i>	<i>1.125</i>	<i>1.265</i>	<i>1.153</i>	

Sketch/Identification



Ultrasonic Examination Report *D. Payne ANII 6/2/82*

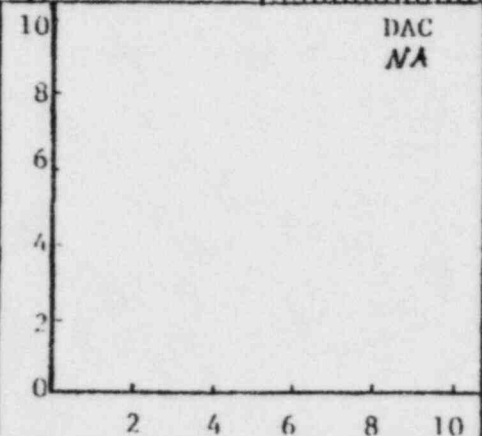
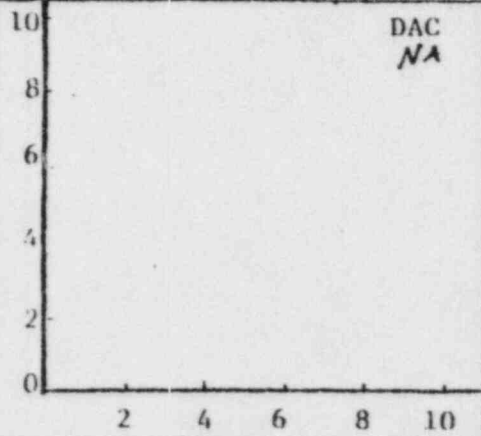
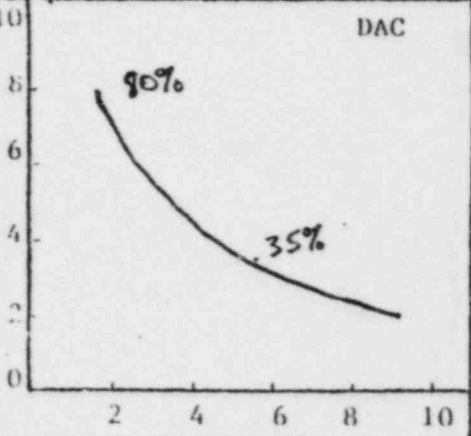
Customer L.P.+L.	Plant Waterford	Unit #3	Loop/Zone 2A/22	Isd/Drawing No. Zone 22, R.2, F.C. 2
Procedure ISI-2.7.R.O.F.C.2	Exam Surface O.D.	Examiner/Level Kerrick/II	VCR Supervisor Wanuel Jones	Date 5-28-82
Component/Piping System Shutdown Cooling from loop 2A Hot leg	Pipe Size 14"	Weld Type Butt	Cal. Block # UT-119	Couplant: Sonotrace Type 40 Batch No. 8124

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 IF Yes, Number **2**

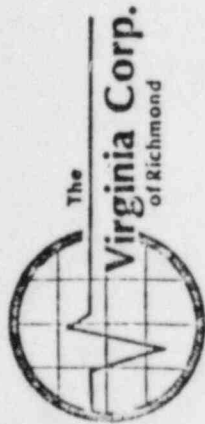
Transducer	0°	45°	60°	Instrument			
	S/N 44651	NA	NA	Mfr. Sonics	Model MS304E	RepRate 1K	Mark I
Size	1/2			S/N	05304E	Filter	off
Frequency	2.25Mhz			Damp	Min.	Coax	6 BAC-A
Beam Angle	0°			Freq.	2	Video	Norm.

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
1/4 T	80%	1.8	NA	NA	NA		NA	NA	NA		14:00	16:50	NA	NA	NA	NA
3/4 T	35%	5.7														
Ref. dB	59		NA				NA									



Additional Comments/Sketch

D. Payne ANII 6/3/82



Ultrasonic Examination Report - Continuation Sheet Page of

Customer L.P.H.	Plant Waterford	Unit #3	Loop/Zone 2A/22	Iso/Drawing No. Zone 22, R.3.F.C.2.
Procedure ISI-27, R.O.F.C.2	Exam Surface O.D.	Examiner/Level Kevin Tate / II	VCR Supervisor Danilo Dano	Date 5-28-82
Component/Piping System Shutdown Cooling from bop 2A Hot leg	Pipe Size 14"	Weld Type Butt	Cal. Block UT-119	Couplant: Type & Batch # SoniTrace 40 Batch # 8124

Weld No.	Base Metal Scan	Scan Direction			Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8		Base Metal	Weld	UT	Visual	
22-001	Yes	NA	NA	NA	Partial on O scan due to the weld transition.	Smooth	Smooth	NI	Sat	
22-015	Yes	NA	NA	NA	Partial on O scan due to the weld transition.	Smooth	Smooth	NI	Sat	
22-017	Yes	NA	NA	NA	Partial on O scans due to the weld transition.	Smooth	Smooth	NI	Sat	
22-021	Yes	NA	NA	NA	Partial due to the weld transition on the O scan.	Smooth	Smooth	NI	Sat	



Ultrasonic Examination Report

D. Payne ANII 9/7/82

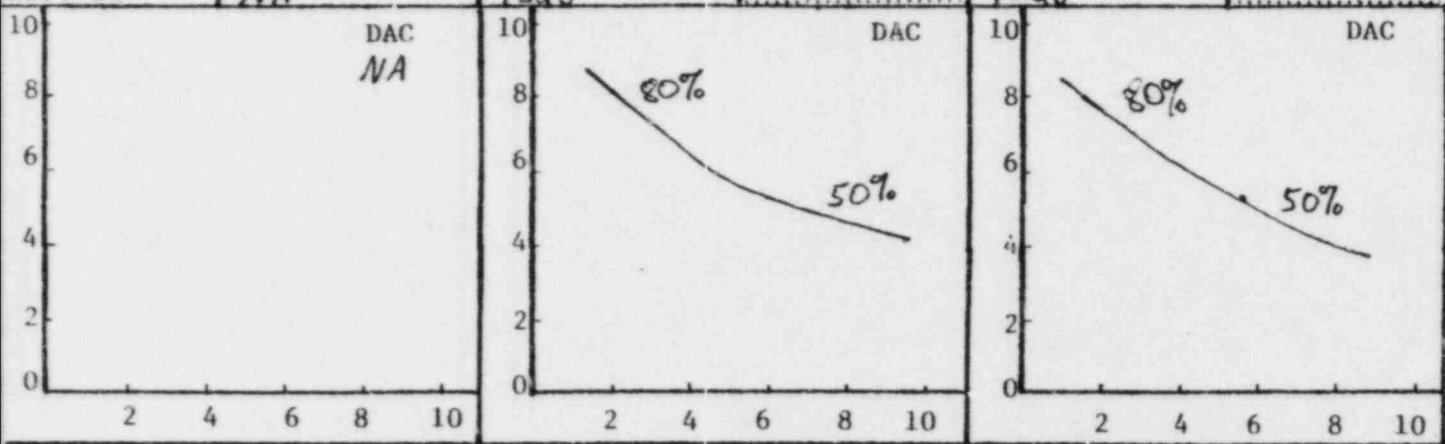
Customer L.P.+L.	Plant Waterford	Unit #3	Loop/Zone 2A/22	Iso/Drawing No. Zone 22, Rev 2, FC. 2
Procedure ISI-2.7, Rev 0, FC 2	Exam Surface OD	Examiner/Level <i>Kevin White/HI</i>		VCR Supervisor <i>Daniel Jones</i>
Component/Piping System <i>Shutdown Cooling</i>		Pipe Size 14"	Weld Type Butt	Date 6-3-82
		Cal. Block # UT-119	Couplant: Type <i>Sonotrace</i> Batch No. 8124	

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 IF Yes, Number 2

Transducer	0°	45°	60°	Instrument			
	S/N <i>NA</i>	<i>022063</i>	<i>NA</i>	Mfr. <i>Sonics</i>	Model <i>Mark I</i>	RepRate <i>1K</i>	Filter <i>off</i>
	Size <i>1/2"</i>	<i>2.25MHz</i>	<i>1</i>	S/N <i>05473E</i>	Coax <i>6'</i>	Video <i>Norm</i>	
	Frequency <i>1</i>	<i>45°</i>	<i>1</i>	Reject <i>off</i>	Damp <i>Min.</i>		

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
<i>1/4T</i>	<i>NA</i>	<i>NA</i>	<i>80%</i>	<i>2.2</i>	<i>NA</i>		<i>80%</i>	<i>1.8</i>	<i>NA</i>		<i>NA</i>	<i>NA</i>	<i>2:00 PM</i>	<i>2:40 PM</i>	<i>NA</i>	<i>NA</i>
<i>3/4T</i>			<i>50%</i>	<i>6.0</i>			<i>50%</i>	<i>5.8</i>								
Ref. dB	<i>NA</i>		<i>43db</i>				<i>42db</i>									

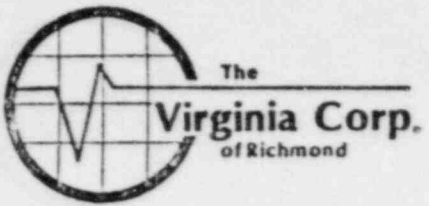


Additional Comments/Sketch

D. Payne ANII 9/7/82

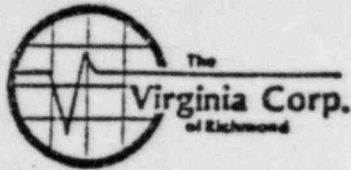
Ultrasonic Examination Report - Continuation Sheet

Page **1** of **1**



Customer L.P.+L.	Plant Waterford	Unit #	Loop/ Zone 2A/22	Iso/Drawing No. Zone 22, R.2, EC.2
Procedure ISI-2.7, Rev. Q, FC 2	Exam Surface OD	Examiner/Level Kerrie White / II	VCR Supervisor <i>Denise Jones</i>	Date 6-3-82
Component/Piping System Shutdown Cooling	Pipe Size 14"	Weld Type Butt	Cal. Block UT-119	Complant: Type & Batch # Sonotrace 40, Batch #8124

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
22-018	NA	Yes	Yes	Yes	NA	None	Smooth	Smooth	NI	Sat	I.D. Geometry 100% of DAC on the S scan. 360°



M.R. Martin, ANII 12-3-82
 Ultrasonic Data Sheet
 for
 Thickness Measurement

Customer LP&L	Plant WATERFORD	Unit 3	Loop/Zone 22
Component/Piping System SHUTDOWN COOLING	Examiner/Level BURLINGAME/IT	Date 6-3-82	
Procedure ISI-2.5 REV. 0	Iso/Drawing No. ZONE 22 R2 FC 2	VCR Supervisor Kevin White	Continuation Sheet Attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Equipment

Instrument		Transducer		Calibration
Mfgr. SONIC	Mfgr. KBI	Size 1/2"	Cal. Block UT-119	
Model FTS MARK I	Freq. 2.25 MHz		Cal. Block	
S/N 01610 E	Serial No. KB 2728		Range Cal. 8 Div. = 1.125"	
Reject OFF	Coax. Cable TWIN 6' COAX		Calibration Checks	
Damp. MIN.	Gain 59 db		13:45 IN	
Freq. 2.25 MHz			16:30 OUT	
Rep. Rate 1000				
Filter Hi				
Video NORM				
Couplant SONOTRACE 40 #8124				

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
22-018	12	1.23	1.18	1.26					
	2	1.20	1.20	1.18					
	4	1.19	1.23	1.18					
	6	1.20	1.23	1.26					
	8	1.23	1.18	1.26					
	10	1.20	1.20	1.23					

Sketch/Identification



Ultrasonic Examination Report

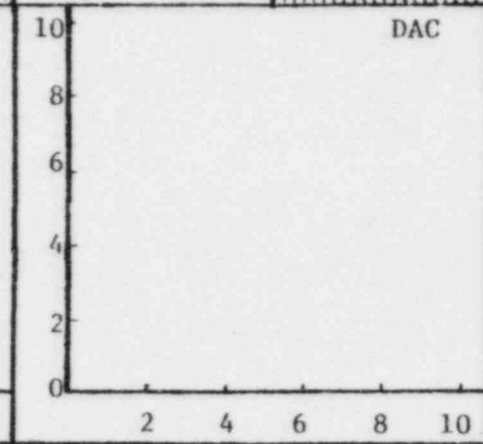
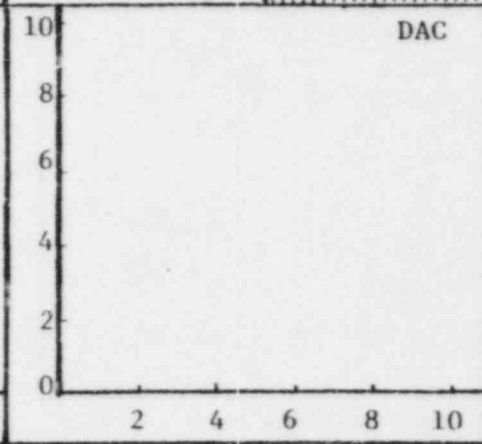
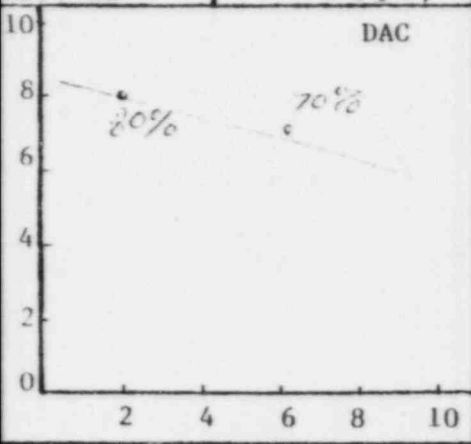
Customer <i>LP3L</i>		Plant <i>WATERFORD</i>		Unit <i>3</i>	Loop/Zone <i>22</i>	Iso/Drawing No. <i>ZONE 22, REV. 2, FC-1100</i>		<i>WRM</i>
Procedure <i>512.7 REV. FC-2</i>		Exam Surface <i>OD</i>		Examiner/Level <i>BURLINGAME II</i>		VCR Supervisor <i>Daniel Dina</i>		Date <i>6-3-82</i>
Component/Piping System <i>SHUTDOWN COOLING</i>				Pipe Size <i>14"</i>	Weld Type <i>BUTT</i>	Cal. Block # <i>UT-119, 1.125"</i>		Couplant: <i>SONOTRACE</i> Type <i>40</i> Batch No. <i>8124</i>

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 IF Yes, Number *FC-2*

Transducer S/N Size Frequency Beam Angle	0°	45°	60°	Instrument			
	<i>AB3738</i>	<i>NA</i>	<i>NA</i>	Mfgr.	<i>SONIC</i>	Model	<i>FIS-mk1</i>
	<i>1/2"</i>			S/N	<i>01610E</i>	RepRate	<i>1000</i>
	<i>2.25m.</i>			Reject	<i>OFF</i>	Filter	<i>H1</i>
	<i>0</i>			Damp	<i>MIN</i>	Coax	<i>6'</i>
				Freq.	<i>3 MHz</i>	Video	<i>NORM</i>

Calibration 0°			2 & 5 Scan						7 & 8 Scan						Calibration Checks					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:			Signal Amp.	Sweep	Sound Entry Point To:			0°		45°		60°			
					Scribe Line	50% DAC				Scribe Line	50% DAC		In	Out	In	Out	In	Out		
<i>1/4 T</i>	<i>80%</i>	<i>1.9</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>1345</i>	<i>1630</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	
<i>1/2 T</i>	<i>70%</i>	<i>5.8</i>																		
<i>BACK</i>	<i>100%+</i>	<i>8</i>																		
Ref. dB	<i>64 dB G</i>																			

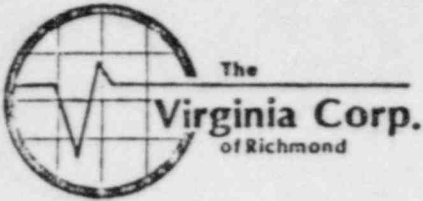


Additional Comments/Sketch

D. Payne ANIE 6/7/82

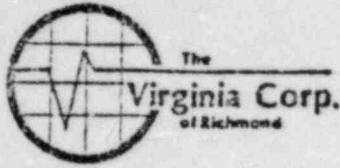
Ultrasonic Examination Report - Continuation Sheet

Page of



Customer LPIL	Plant WATERFORD	Unit 3	Loop/ Zone 22	Iso/Drawing No. ZONE 22 REV. 2 FC-2 <i>WRM</i>
Procedure FC-2 ISI-2.7 RELO	Exam Surface OD	Examiner/Level BURLINGAME II	VCR Supervisor Donald Jones	Date 6-3-82 <i>WRM</i>
Component/Piping System SHUTDOWN COOLING	Pipe Size 14"	Weld Type BUTT	Cal. Block UT-119	Couplant: Type & Batch # SCOUTRACE 40th 8124

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
		23-018	YES	NA	NA		NA	YES		CLEAN GROUND	



D. Payne ANTE 6/8/82
 Ultrasonic Data Sheet
 for
 Thickness Measurement

Customer <i>LP+L</i>	Plant <i>Waterford</i>	Unit # <i>3</i>	Loop/Zone <i>2A 22</i>
Component/Piping System <i>Safety Injection</i>	Examiner/Level <i>BURNINGAME II</i>	Date <i>6-7-82</i>	
Procedure <i>ISI 2.5 REV. 0</i>	Iso/Drawing No. <i>201E 22 REV. 2</i>	VOR Supervisor <i>Daniel Jones</i>	Continuation Sheet Attached Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Equipment <i>FC-12000</i>			

Instrument		Transducer		Calibration	
Mfgr. <i>SONIC</i>	Mfgr. <i>Aerotech</i>	Size <i>1/2"</i>	Cal. Block <i>CT-119</i>		
Model <i>MARK I</i>	Size <i>1/2"</i>		Cal. Block		
S/N <i>780836</i>	Freq. <i>5 MHz</i>		Range Cal. <i>1.125" = 4 DIV</i>		
Reject <i>OFF</i>	Serial No. <i>KB 2897</i>		Calibration Checks		
Damp. <i>MIN</i>	Coax. Cable <i>6'</i>		<i>IN</i>	<i>OUT</i>	
Freq. <i>5</i>	Gain <i>71 dB</i>		<i>11:15</i>	<i>2:30</i>	
Rep. Rate <i>1K</i>					
Filter <i>OFF</i>					
Video <i>NORM.</i>					
Couplant <i>SONOTAC 40 Batch # 8124</i>					

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
<i>22-020</i>	<i>12</i>	<i>1.251</i>	<i>1.251</i>	<i>1.265</i>	<i>22-057</i>	<i>12</i>	<i>1.350</i>	<i>1.462</i>	<i>1.209</i>
	<i>2</i>	<i>1.251</i>	<i>1.195</i>	<i>1.265</i>		<i>2</i>	<i>1.406</i>	<i>1.490</i>	<i>1.181</i>
	<i>4</i>	<i>1.281</i>	<i>1.195</i>	<i>1.265</i>		<i>4</i>	<i>1.406</i>	<i>1.490</i>	<i>1.181</i>
	<i>6</i>	<i>1.153</i>	<i>1.251</i>	<i>1.265</i>		<i>6</i>	<i>1.293</i>	<i>1.462</i>	<i>1.181</i>
	<i>8</i>	<i>1.125</i>	<i>1.265</i>	<i>1.265</i>		<i>8</i>	<i>1.293</i>	<i>1.462</i>	<i>1.181</i>
	<i>10</i>	<i>1.125</i>	<i>1.293</i>	<i>1.209</i>		<i>10</i>	<i>1.350</i>	<i>1.462</i>	<i>1.209</i>

Sketch/Identification



The Virginia Corp.
of Richmond

Ultrasonic Examination Report *D. Payne ANIZ 6/8/82*

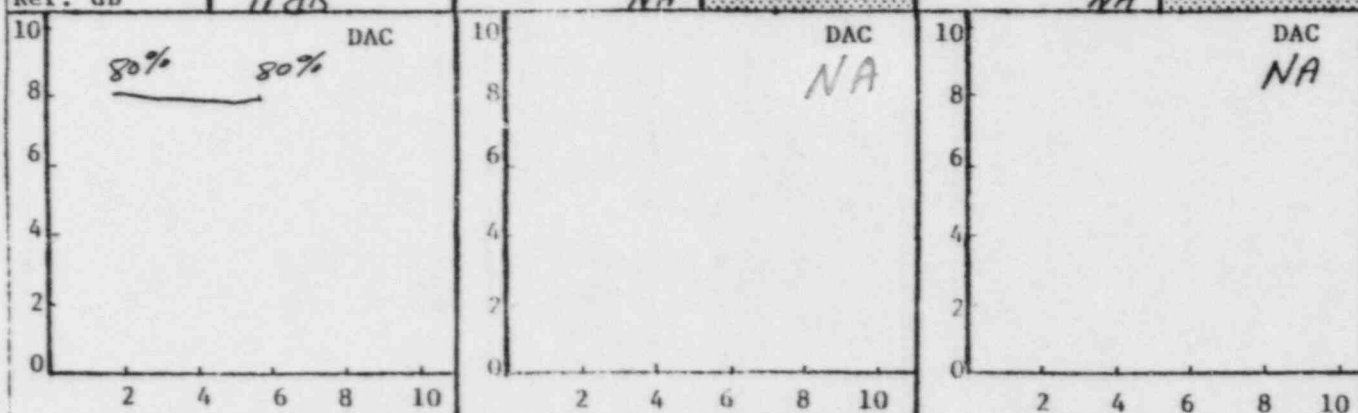
Customer <i>LP+L</i>	Plant <i>Waterford</i>	Unit # <i>3</i>	Loop/Zone <i>2A 22</i>	ISO/Drawing No. <i>ZONE 22, REV. 2 FC-12.019</i>
Procedure <i>FC-2 MSI-2.7 REV. 0</i>	Exam Surface <i>00</i>	Examiner/Level <i>BURKINGAME IIB</i>	VER Supervisor <i>Daniel Deane</i>	Date <i>6-7-82</i>
Component/Piping System <i>Salty Insulation</i>	Pipe Size <i>14"</i>	Weld Type <i>BUTT</i>	Cal. Block <i>UT-119, 1.25"</i>	Couplant: <i>Type Sono 50 Batch No 8123</i>

Continuation Sheet Attached
 Yes No

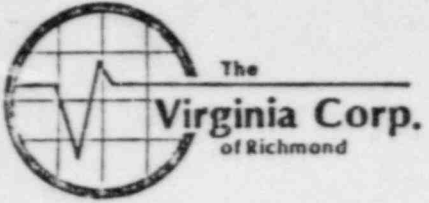
Field Changes: *FC-2*
Yes No
If Yes, Number

Transducer	0°	45°	60°	Instrument			
S/N	<i>KB2897</i>	<i>NA</i>	<i>NA</i>	Mfr.	<i>Sonic</i>	Model	<i>Mark I</i>
Size	<i>1/2"</i>			S/N	<i>780836</i>	RepRate	<i>1K</i>
Frequency	<i>5 MHz</i>			Reject	<i>off</i>	Filter	<i>off</i>
Beam Angle	<i>0</i>			Damp	<i>Min</i>	Coax	<i>1</i>
				Freq.	<i>5</i>	Video	<i>Norm.</i>

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
<i>1/4 T</i>	<i>80%</i>	<i>1.8</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>		<i>NA</i>	<i>NA</i>	<i>NA</i>		<i>11:15</i>	<i>2:30</i>				
<i>3/4 T</i>	<i>80%</i>	<i>5.8</i>														



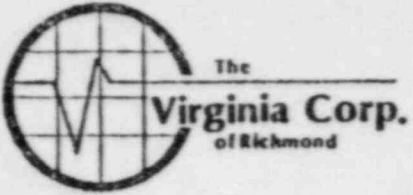
Additional Comments/Sketch



Ultrasonic Examination Report - Continuation Sheet Page **1** of **1**

Customer <i>LP3L</i>	Plant <i>WATERFORD</i>	Unit <i>3</i>	Loop/ Zone <i>2A 22</i>	Iso/Drawing No. <i>ZONE 22, REV 2 FC-1200</i>
Procedure <i>ISI-2.7, REV 0 FC-2</i>	Exam Surface <i>OD</i>	Examiner/Level <i>BURLINGAME II</i>	VCR Supervisor <i>Daniel Jones</i>	Date <i>6-7-82</i>
Component/Piping System <i>SAFETY INJECTION</i>	Pipe Size <i>14"</i>	Weld Type <i>BUTT</i>	Cal. Block <i>UT-119</i>	Couplant: Type & Batch # <i>SONOTRACE 40TH 8124</i>

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks	
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual		
<i>22</i>	<i>020</i>	<i>YES</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>YES</i>	<i>CLEAN</i>	<i>GROUND</i>	<i>NI</i>	<i>SAT</i>		
<i>22</i>	<i>057</i>	<i>PAR</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>YES</i>	<i>BRANCH CONNECTION</i>	<i>CLEAN</i>	<i>GROUND</i>	<i>NI</i>	<i>SAT</i>	



Ultrasonic Examination Report

D. Payne ANII 9/8/82

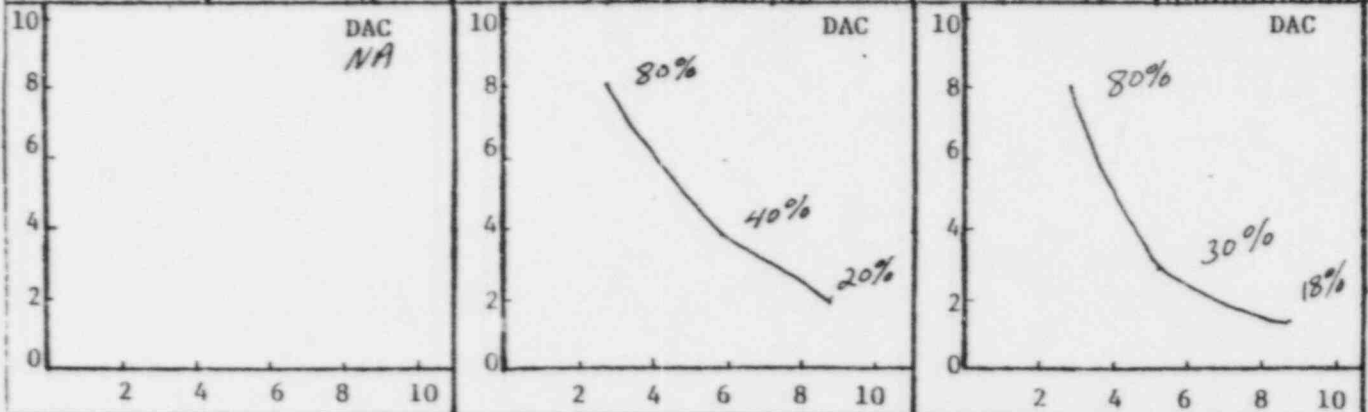
Customer LP+L	Plant Waterford	Unit #3	Loop/Zone 2A, 2Z	Iso/Drawing No. ZONE 22, REV. 2, FC-209
Procedure FC-2	Exam Surface 0.0	Examiner/Level BURLINGAME II	VGR Supervisor Daniel Jones	Date 6-7-82
Component/Piping System Safety Injection	Pipe Size 14"	Weld Type BUTT	Cal. Block 119 97	Couplant: Type 500 40 Batch No. 8124

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No **FC-2**
 If Yes, Number:

Transducer			Instrument			
0°	45°	60°	Mfr.	SONIC	Model	NAI I
S/N	NA	Mo 4140	S/N	05304E	RepRate	1K
Size		1/2"	Reject	off	Filter	off
Frequency		2.25MHz	Damp	M.W.	Coax	12"
Beam Angle		45°	Freq.	2.25	Video	Norm.

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
1 T	NA	NA	80%	3.0	NA		80%	3.0	NA		NA	NA	11:20	2:35	NA	NA
2 T			40%	6.0			30%	5.8								
3 T			20%	9.0			18%	9.0								
Ref. dB	NA		49 dB				53 dB									



Additional Comments/Sketch



The
Virginia Corp.
 of Richmond

Ultrasonic Examination Report - Continuation Sheet

D. Payne ANII 6/8/82

Customer <i>LP31</i>	Plant <i>WATERFORD</i>	Unit <i>3</i>	Loop/ Zone <i>3A 22</i>	Iso/Drawing No. <i>ZONE 22, REV 2, FC-12</i>
Procedure <i>FC-2</i>	Exam Surface <i>OD</i>	Examiner/Level <i>BURLINGAME II</i>	VCR Supervisor <i>Daniel Jones</i>	Date <i>6-7-82</i>
Component/Piping System <i>SAFETY INJECTION</i>		Pipe Size <i>14"</i>	Weld Type <i>BOTT</i>	Cal. Block <i>UT-119</i>
Couplant: Type & Batch # <i>SONOTRACE 40^{II} 8124</i>				

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks	
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual		
<i>32</i>	<i>020</i>	<i>NA</i>	<i>YES</i>	<i>YES</i>	<i>YES</i>	<i>NA</i>	<i>CLEAN</i>	<i>GROUND</i>	<i>NI</i>	<i>SAT</i>		
<i>32</i>	<i>057</i>	<i>NA</i>	<i>NO</i>	<i>YES</i>	<i>PAR</i>	<i>NA</i>	<i>BRANCH CONNECTION</i>	<i>CLEAN</i>	<i>GROUND</i>	<i>NI</i>	<i>SAT</i>	



D. Payne ANIT 6/21/82
 Ultrasonic Data Sheet
 for
 Thickness Measurement

Customer LP+L	Plant Waterford	Unit 3	Loop/Zone 2/22
Component/Piping System Shutdown Cooling line from loop 2		Examiner/Level RUBENHAME ICB	Date 6-16-82
Procedure ISI a.s., REV. 0	Iso/Drawing No. 20NC22 R.2 F.C.2	VCR Supervisor K. [Signature]	Continuation Sheet Attached [] Yes [x] No

Equipment

Instrument	Transducer		Calibration
Mfgr. SONIC	Mfgr. SONIC	Size .5"	Cal. Block UT-119
Model Mark 1			Cal. Block
S/N 0161DE	Freq. 2.25 MHz		Range Cal. 70 division
Reject OFF			Calibration Checks
Damp. MIN	Serial No. KB2728		IN-1:00
Freq. 2	Coax. Cable 6'		OUT-2:00
Rep. Rate 1K			
Filter OFF			
Video Normal	Gain 64 db		
Couplant Sonotrace 40 8124			

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
22-011	12	1.317	1.157	1.253					
22-011	2	1.221	1.189	1.189					
22-011	4	1.253	1.317	1.221					
22-011	6	1.221	1.317	1.285					
22-011	8	1.221	1.253	1.201					
22-011	10	1.253	1.317	1.189					

Sketch/Identification



Ultrasonic Examination Report

R. Byrd ANII 6/11/82

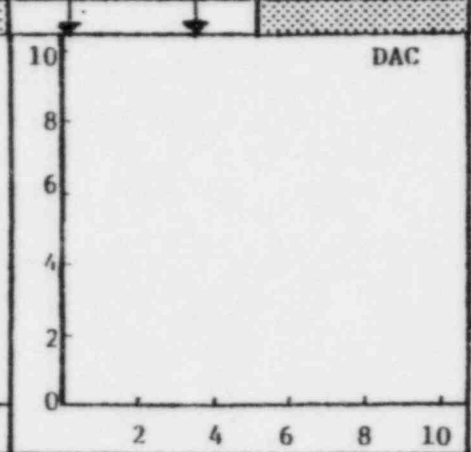
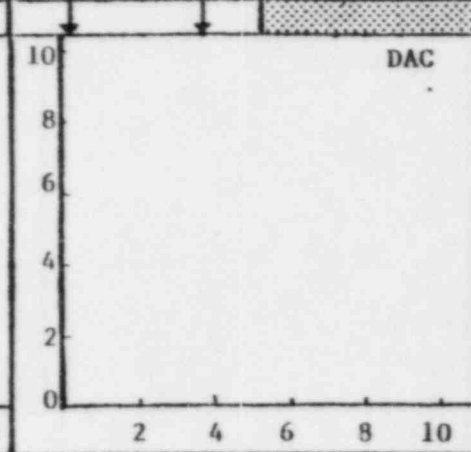
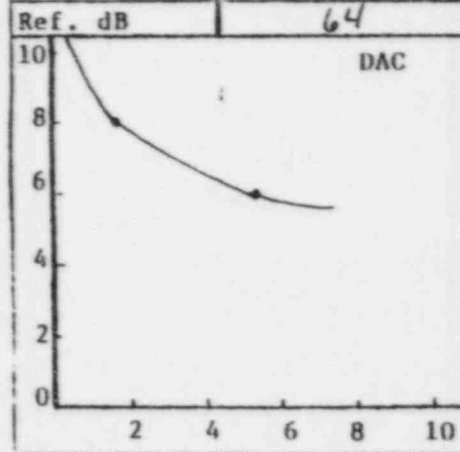
Customer <i>LP+L</i>	Plant <i>Waterford</i>	Unit <i>#3</i>	Loop/Zone <i>2/22</i>	Iso/Drawing No. <i>ZONE 22 R. 2 F.C. 2</i>
Procedure <i>ISI 2-7 R.O. F.C. 2</i>	Exam Surface <i>OD</i>	Examiner/Level <i>BURLINGAME</i>	VGR Supervisor <i>[Signature]</i>	Date <i>6-16-82</i>
Component/Piping System <i>Shutdown cooling line from loop 2</i>	Pipe Size <i>14"</i>	Weld Type <i>Butt</i>	Cal. Block <i>UT-119</i>	Couplant: Type <i>Sono 40</i> Batch No. <i>8124</i>

Continuation Sheet Attached
 Yes No

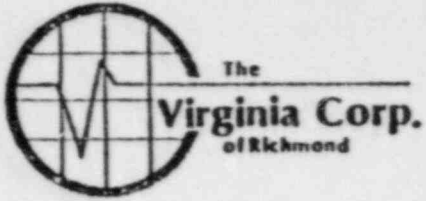
Field Changes:
 Yes No *FC-2*
 If Yes, Number

Transducer S/N Size Frequency Beam Angle	0°	45°	60°	Instrument			
	<i>K8728</i>			Mfr.	<i>SONIC</i>	Model	<i>MMN I</i>
	<i>.5"</i>			S/N	<i>01610E</i>	RepRate	<i>1K</i>
	<i>2.25</i>			Reject	<i>OFF</i>	Filter	<i>OFF</i>
	<i>0°</i>			Damp	<i>MIN</i>	Coax	<i>6'</i>
				Freq.	<i>2</i>	Video	<i>Norm</i>

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
<i>1/4</i>	<i>80%</i>	<i>1.5</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>1:00</i>	<i>2:00</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>
<i>3/4</i>	<i>60%</i>	<i>4.7</i>														
<i>1 T</i>	<i>N/A</i>	<i>7</i>														



Additional Comments/Sketch



Ultrasonic Examination Report *D. David ANIZ 6/21/82*

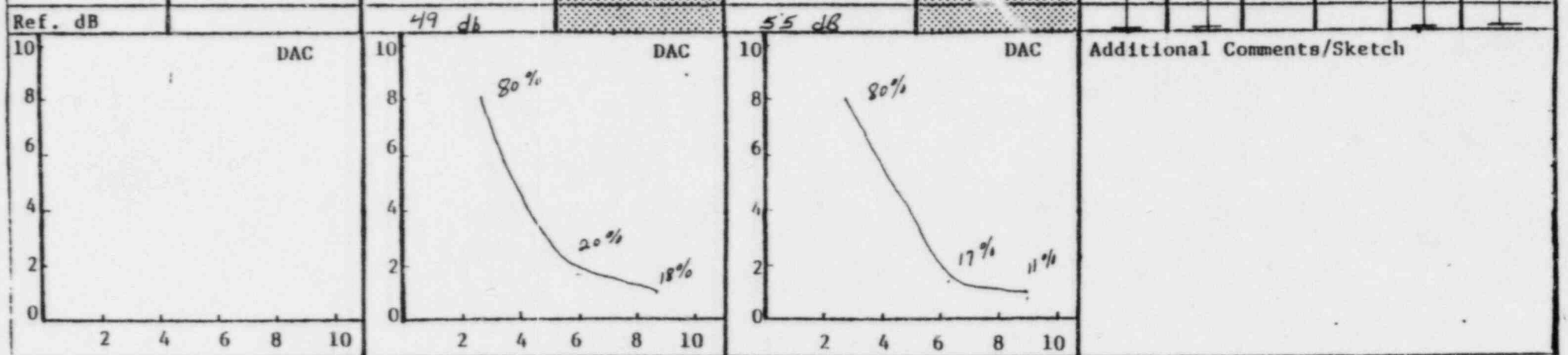
Customer <i>L P & L</i>	Plant <i>Waterford</i>	Unit <i># 3</i>	Loop/Zone <i>2/22</i>	Iso/Drawing No. <i>zone 22 R-2 F-1-2</i>
Procedure <i>ISI 2.7 Rev. 0 FC 2</i>	Exam Surface <i>OD</i>	Examiner/Level <i>BURLINGAME II</i>	VCR Supervisor <i>D. David ANIZ</i>	Date <i>6-16-82</i>
Component/Piping System <i>Shutdown Cooling Line from loop 2</i>		Pipe Size <i>14"</i>	Weld Type <i>Butt</i>	Cal. Block # <i>UT-119</i>
		Couplant: <i>Type Sonogel Batch No. 8/24</i>		

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 If Yes, Number *FC 2*

Transducer	0°	45°	60°	Instrument			
	S/N <i>NA</i>	<i>3A8935</i>	<i>NA</i>	Mfg. <i>SONIC</i>	Model <i>MAH I</i>		
	Size <i>I</i>	<i>1/2"</i>	<i>I</i>	S/N <i>03704E</i>	RepRate <i>14</i>	Filter <i>off</i>	<i>off</i>
	Frequency <i>I</i>	<i>3.35 m.</i>	<i>I</i>	Reject <i>off</i>	Damp <i>MIN</i>	Coax <i>6'</i>	
Beam Angle <i>I</i>	<i>45°</i>	<i>I</i>	Freq. <i>2 mhz.</i>	Video <i>Not m.</i>			

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks					
Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
<i>1 T</i>	<i>NA</i>	<i>NA</i>	<i>80%</i>	<i>3.0</i>	<i>NA</i>		<i>80</i>	<i>3.0</i>	<i>NA</i>		<i>NA</i>	<i>NA</i>	<i>1:36</i>	<i>4:00</i>	<i>NA</i>	<i>NA</i>
<i>2 T</i>			<i>20%</i>	<i>6.0</i>			<i>17</i>	<i>6.2</i>								
<i>3 T</i>			<i>18</i>	<i>9.0</i>			<i>11</i>	<i>9.2</i>								





D. Payne ANII 6/16/82
 Ultrasonic Data Sheet
 for
 Thickness Measurement

Customer <i>LP 3L</i>	Plant <i>WATERFORD</i>	Unit <i>3</i>	Loop/Zone <i>2A, 22</i>
Component/Piping System <i>SAFETY INJECTION</i>	Examiner/Level <i>BUZLINGAME II</i>	Date <i>6-12-82</i>	
Procedure <i>ISI-2.5 REV.0 FC-0</i>	Iso/Drawing No. <i>ZONE 22, REV.3, FC2</i>	VCR Supervisor <i>Dene. Payne</i>	Continuation Sheet Attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Equipment

Instrument		Transducer		Calibration
Mfgr. <i>SONIC</i>	Mfgr. <i>KBI</i>	Size <i>1/2"</i>	Cal. Block <i>UT-119</i>	
Model <i>FTS-MK-1</i>	Freq. <i>5 MHz.</i>		Cal. Block <i>NA.</i>	
S/N <i>280836</i>	Serial No. <i>KB 3897</i>		Range Cal. <i>1.125" = 8 DIV.</i>	
Reject <i>OFF</i>	Coax. Cable <i>TWIN 6' COAX.</i>		Calibration Checks <i>0835</i>	
Damp. <i>MIN.</i>	Gain <i>70 db</i>		<i>0930</i>	
Freq. <i>5 MHz.</i>				
Rep. Rate <i>1000</i>				
Filter <i>HL.</i>				
Video <i>NCA.M.</i>				
Couplant <i>SONIC 40 #8124</i>				

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
<i>22-026</i>	<i>12</i>	<i>1.322"</i>	<i>1.294"</i>	<i>1.238"</i>	<i>22-027</i>	<i>12</i>	<i>1.395"</i>	<i>*</i>	<i>1.266"</i>
	<i>2</i>	<i>1.294"</i>	<i>1.294"</i>	<i>1.125"</i>		<i>2</i>	<i>1.395"</i>	<i>*</i>	<i>1.280"</i>
	<i>4</i>	<i>1.238"</i>	<i>1.266"</i>	<i>1.266"</i>		<i>4</i>	<i>1.395"</i>	<i>*</i>	<i>1.294"</i>
	<i>6</i>	<i>1.266"</i>	<i>1.266"</i>	<i>1.350"</i>		<i>6</i>	<i>1.395"</i>	<i>*</i>	<i>1.294"</i>
	<i>8</i>	<i>1.266"</i>	<i>1.266"</i>	<i>1.350"</i>		<i>8</i>	<i>1.395"</i>	<i>*</i>	<i>1.322"</i>
<i>*</i>	<i>10</i>	<i>1.266"</i>	<i>1.266"</i>	<i>1.238"</i>	<i>*</i>	<i>10</i>	<i>1.395"</i>	<i>*</i>	<i>1.322"</i>

Sketch/Identification

** Inaccessible due to radius of branch connection.*



Ultrasonic Examination Report *D. Payne ANII 6/16/82*

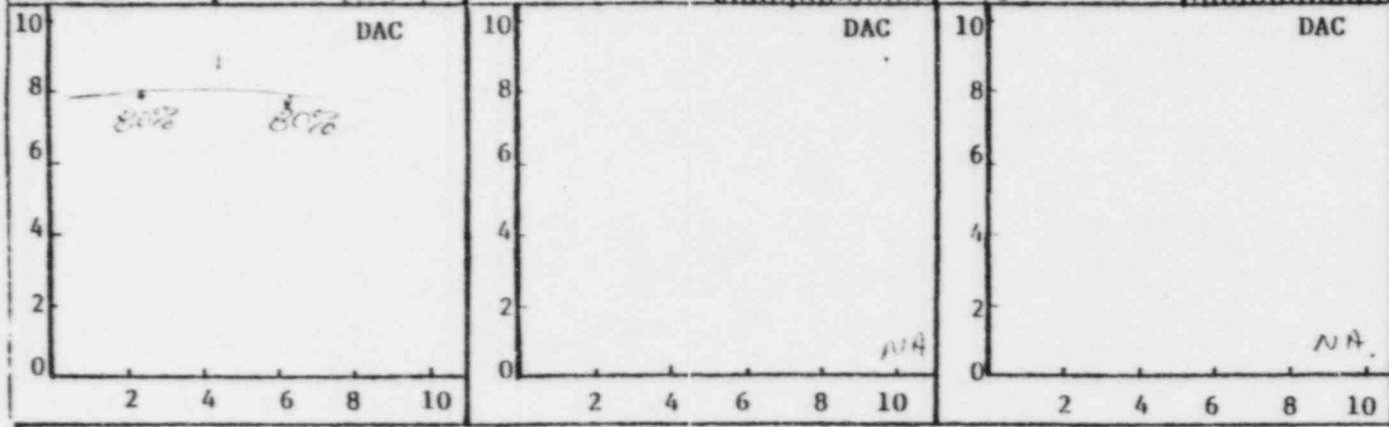
Customer <i>LP3L</i>		Plant <i>WATERFORD</i>		Unit <i>3</i>	Loop/Zone <i>2A, 22</i>	Iso/Drawing No. <i>ZONE 33, REC. 2, FC-2</i>	
Procedure <i>FC-2</i>		Exam Surface <i>OD</i>	Examiner/Level <i>BURLINGAME</i>		VCR Supervisor <i>W. H. H. H.</i>		Date <i>6-12-82</i>
Component/Piping System <i>SAFETY INJECTION</i>			Pipe Size <i>14"</i>	Weld Type <i>BOTT</i>	Cal. Block <i>UT-117, 1125</i>	Couplant: <i>SONOTRACE</i> Type <i>40</i> Batch No. <i>8174</i>	

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No *FC-2*
 If Yes, Number

	Transducer	0°	45°	60°	Instrument						
	S/N	<i>KB 2897</i>	<i>NA</i>	<i>NA</i>	Mfr.	<i>SONIC</i>	Model	<i>FIS-MK1</i>			
	Size	<i>1/2"</i>			S/N	<i>780836</i>	RepRate	<i>1000</i>			
	Frequency	<i>5 MHz</i>			Reject	<i>OFF</i>	Filter	<i>HI</i>			
Beam Angle	<i>0</i>			Damp	<i>MIN</i>	Coax	<i>6</i>				
Calibration 0°		2 & 5 Scan			7 & 8 Scan			Freq.	<i>5 MHz</i>	Video	<i>NORM</i>

Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		Calibration Checks					
					Scribe Line	50% DAC			Scribe Line	50% DAC	0°		45°		60°	
											In	Out	In	Out	In	Out
<i>1/4T</i>	<i>80%</i>	<i>1.8</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>0835</i>	<i>0930</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>
<i>3/4T</i>	<i>80%</i>	<i>5.8</i>														
<i>1T</i>	<i>>100%</i>	<i>8</i>														
Ref. dB	<i>73.166</i>															



Additional Comments/Sketch



The Virginia Corp.
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Ultrasonic Examination Report - Continuation Sheet

Page 6/16/82 of

Customer <i>LP 2L</i>	Plant WATERFORD	Unit 3	Loop/ Zone 2A 22	Iso/Drawing No. CONE 22, REV.2 FC-2
Procedure <i>FC-2</i> <i>IST-2.7 REV.0</i>	Exam Surface <i>OD</i>	Examiner/Level <i>BURLINGAME</i>	VCR Supervisor <i>W. Davis</i>	
Component/Piping System <i>SAFETY INJECTION.</i>		Pipe Size <i>14"</i>	Weld Type <i>BUTT</i>	Date <i>6-12-82</i>
			Cal. Block <i>UT-119</i>	Couplant: Type & Batch # <i>SONOTRACE 40 11 8124</i>

Weld No.	Base Metal Scan	Scan Direction	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
			2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
22-026	YES	NA	NA	NA	NA	YES		CLEAN	GROUND	NI	SAT	
22-027	PAR	NA	NA	NA	NA	YES	SLOPE OF BRANCH CONN.	CLEAN	GROUND	NI	SAT	



Ultrasonic Examination Report

D. Payne ANII 9/16/82

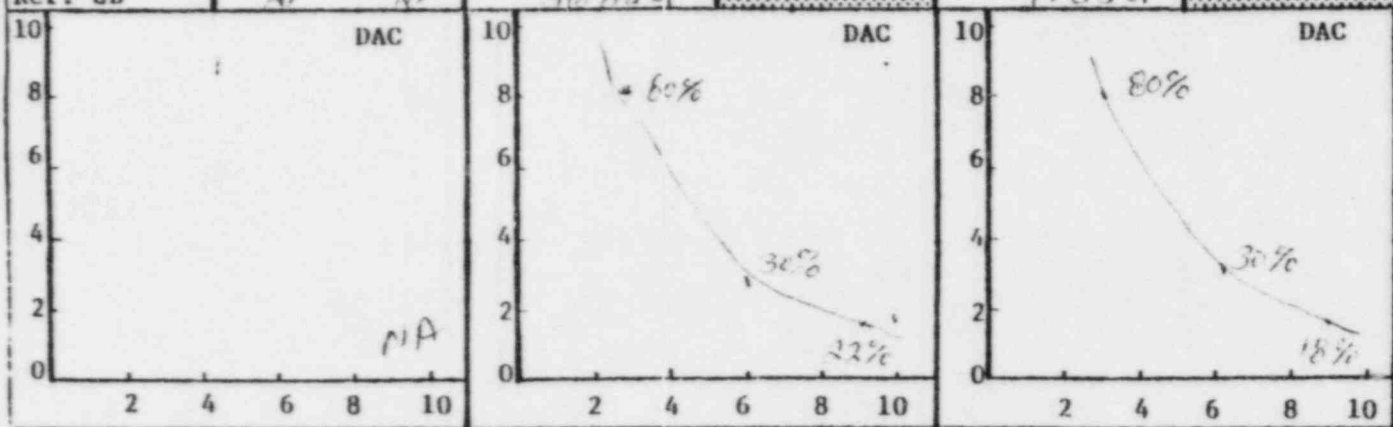
Customer <i>A.P.I.L</i>		Plant <i>WATERFORD</i>		Unit <i>3</i>	Loop/Zone <i>2A, 22</i>	Iso/Drawing No. <i>ZONE 22, REC. 2, FG-2</i>	
Procedure <i>FC-2</i>	Exam Surface <i>OD</i>	Examiner/Level <i>BURLINGAME JR</i>		VGR Supervisor <i>Donna Payne</i>		Date <i>6, 12, 82</i>	
Component/Piping System <i>SAFETY INJECTION</i>		Pipe Size <i>14"</i>	Weld Type <i>Butt</i>	Cal. Block <i>UT-119, 1/25"</i>	Couplant: <i>Sonotrace</i> Type <i>40</i> Batch No. <i>2924</i>		

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No *FC-2*
 If Yes, Number

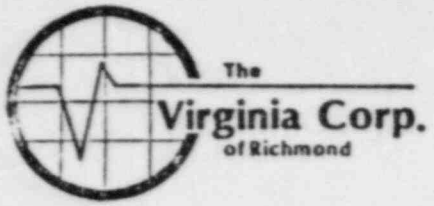
Transducer	0°	45°	60°	Instrument			
	S/N <i>NA</i>	<i>004140</i>	<i>NA</i>	Mfg. <i>Sonic</i>	Model <i>FS-MK-1</i>	RepRate <i>1000</i>	
	Size <i>1/2"</i>	<i>2.25"</i>	<i>1/2"</i>	S/N <i>05473E</i>	Filter <i>OFF</i>	Coax <i>41</i>	
	Frequency <i>5 MHz</i>	<i>45°</i>	<i>60°</i>	Damp <i>MIN</i>	Video <i>NORM</i>		

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks						
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°		
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out	
<i>1T</i>	<i>NA</i>	<i>NA</i>	<i>80%</i>	<i>3</i>	<i>NA</i>	<i>NA</i>	<i>80%</i>	<i>3.1</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>08/10</i>	<i>0/35</i>	<i>NA</i>	<i>NA</i>
<i>2T</i>			<i>30%</i>	<i>6</i>			<i>30%</i>	<i>6.2</i>									
<i>3T</i>			<i>22%</i>	<i>9</i>			<i>18%</i>	<i>9.3</i>									
Ref. dB			<i>76 dB</i>				<i>71 dB</i>										



Additional Comments/Sketch

D. Payne/DNI 6/16/82



Ultrasonic Examination Report - Continuation Sheet

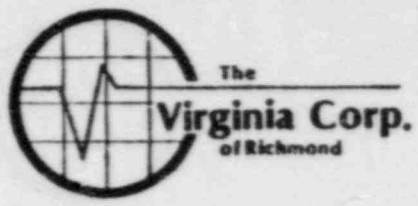
Customer: PJL	Plant: (WATERFORD)	Unit: 3	Loop/Zone: 2A 22	Iso/Drawing No.: ZONE 22 REU.2 FC-2
Procedure: FC-2 SI-2.7 REU.0	Exam Surface: OD	Examiner/Level: BURLINGAME	VCR Supervisor: Daniel Payne	Date: 6-12-82
Component/Piping System: SAFETY INJECTION	Pipe Size: 14"	Weld Type: BOV	Cal. Block: UT-119	Couplant: Type & Batch #: SONOTRACE 40TH #124

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
27-026	NA	YES	YES	YES	NA		CLEAN	GROUND	NI	SAT	(1)
27-037	NA	NO	YES	PAR	NA	SLOPE OF BRANCH	CLEAN	GROUND	NI	SAT	(2)

(1) I.D. GEOM. NEAR ROOT OF WELD
TYP. 360° ; TO ~ 35% DAC.

(2) I.D. GEOM. FROM 325° TO 45° AND
FROM 135° TO 225° ; TO ~ 40% DAC.

M.R. Martin, ANII 12-3-82



Ultrasonic Examination Report

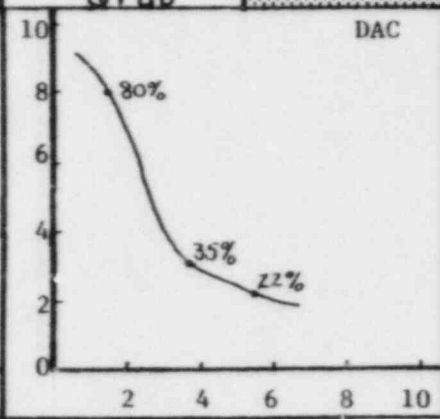
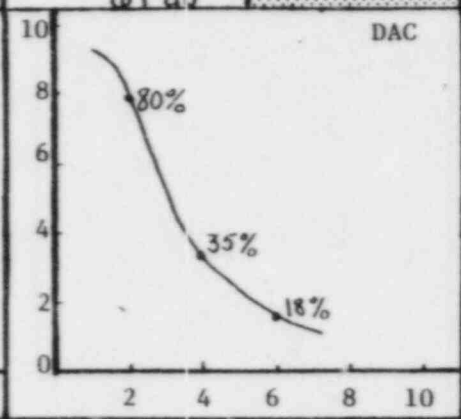
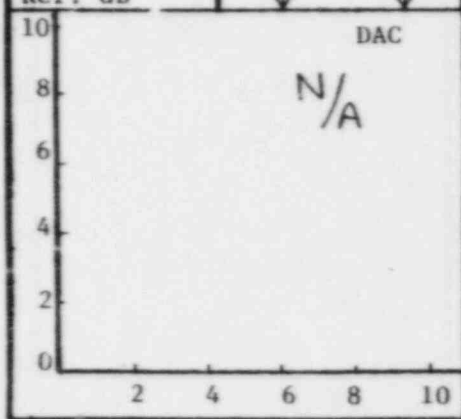
Customer LP&L	Plant WATERFORD	Unit 3	Loop/Zone ZB/22	Iso/Drawing No. ZONE 22, REV. 2 F.C.2
Procedure ISI-2.8 R.F.C.1	Exam Surface O.D.	Examiner/Level RURLINGAME/II	VCR Supervisor Kevin White	Date 6-19-82
Component/Piping System SAFETY INT. & SHUTDOWN COOLING CONN.		Pipe Size 12"	Weld Type BUTT	Cal. Block UT-16
			Couplant: SONOTRACE	Batch No. 8124

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 If Yes, Number **F.C.1**

Transducer	0°	45°	60°	Instrument			
S/N	N/A	607152	N/A	Mfr.	SONIC	Model	FTS MARK I
Size		1/2"		S/N	780836	RepRate	3000
Frequency		2.25 MHz		Reject	1	Filter	Hi
Beam Angle		43°		Damp	MIN	Coax	6'
				Freq.	2 MHz	Video	NORM

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks						
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°		
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out	
1/4	N/A	N/A	80%	2.0	N/A	N/A	80%	1.8	N/A	N/A	N/A	N/A	N/A	8:30	10:00	N/A	N/A
1/2			35%	4.0			35%	3.8									
3/4			18%	6.0			22%	5.6									



Additional Comments/Sketch
SAFE END SIDE CAST 55



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Ultrasonic Examination Report - Continuation Sheet

Page of

Customer LP&L	Plant WATERFORD	Unit 3	Loop/ Zone 2B 22	Iso/Drawing No. ZONE 22 REV. 2 F.C.Z
Procedure ISI-28 R.I.F.C.I	Exam Surface O.D.	Examiner/Level BURLINGAME/II	VCR Supervisor <i>[Signature]</i>	Date 6-19-82
Component/Piping System SAFETY INJ. & SHUTDOWN COOLING	Pipe Size 12"	Weld Type BUTT	Cal. Block UT-16	Couplant: Type & Batch # SONOTRACE 40 #8124

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
22-001	N/A	YES	YES	YES	N/A		CLEAN	GROUND	NI	SAT	



The Virginia Corp.
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Liquid Penetrant

Don Payne ANII 7/15/82
Examination Report

Customer LP&L	Plant Waterford	Unit 3	Loop/Zone 23
Procedure ISI 3.1 R0 FL2	Examiner/Level James J. Bunt II / BSNT / Certified I		Date 7-12-82
Component/Piping System Pressurizer spray from loop 1B	ISO Drawing No. Zone 23 R2	VCR Site Supervisor Daniel Jones	
Material Batch Nos. 47L 015	Manufacturer Sherwin Inc.	Type Dye-Check	
Penetrant	Developer 14B6	Remover 112 C4	

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	Sat.	Unsat
23-007		✓		✓	
23-008		✓		✓	
23-009		✓		✓	



Liquid Penetrant
Don Payne ANZI 7/2/82
 Examination Report

Customer <i>LP&L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>1B/23</i>
Procedure <i>ISI 3.1 RO FC2</i>	Examiner/Level <i>James M. Legett - Robert J. Chesnut</i>		Date <i>2-11-82</i>
Component/Piping System <i>Pressurizer spray from loop 1B</i>	ISO Drawing No. <i>ZONE 23 R 2</i>	VCR Site Supervisor <i>Daniel [Signature]</i>	
Material Batch Nos. <i>476015</i>	Manufacturer <i>Sherwin</i>	Type <i>Dubl-check</i>	
Penetrant <i>1486</i>	Developer <i>112C4</i>	Remover <i>112C4</i>	

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	Sat.	Unsat
<i>23-010</i>		✓		✓	
<i>23-011</i>		✓		✓	
<i>23-012</i>		✓		✓	
<i>23-013</i>		✓		✓	



Liquid Penetrant
Don Payne ANII 3/17/82
Examination Report

Customer LP&L	Plant Waterford	Unit 3	Loop/Zone 18/23
Procedure IST-3.1 Rev. O.E.C. 2	Examiner/Level James W. Givette / Stephen L. Morrison		Date 2-16-82
Component/Piping System Pressurizer spray from loop 1B	ISO Drawing No. Zone 23 Rev. 2	VCR Site Supervisor Daniel Jensen	
Material Batch Nos. 472015	Manufacturer Sherwin INC.	Type DUBI-Check	Penetrant 129F6
Developer 11204			

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	Sat.	Unsat
23-004		✓		✓	
23-005		✓		✓	
23-006		✓		✓	



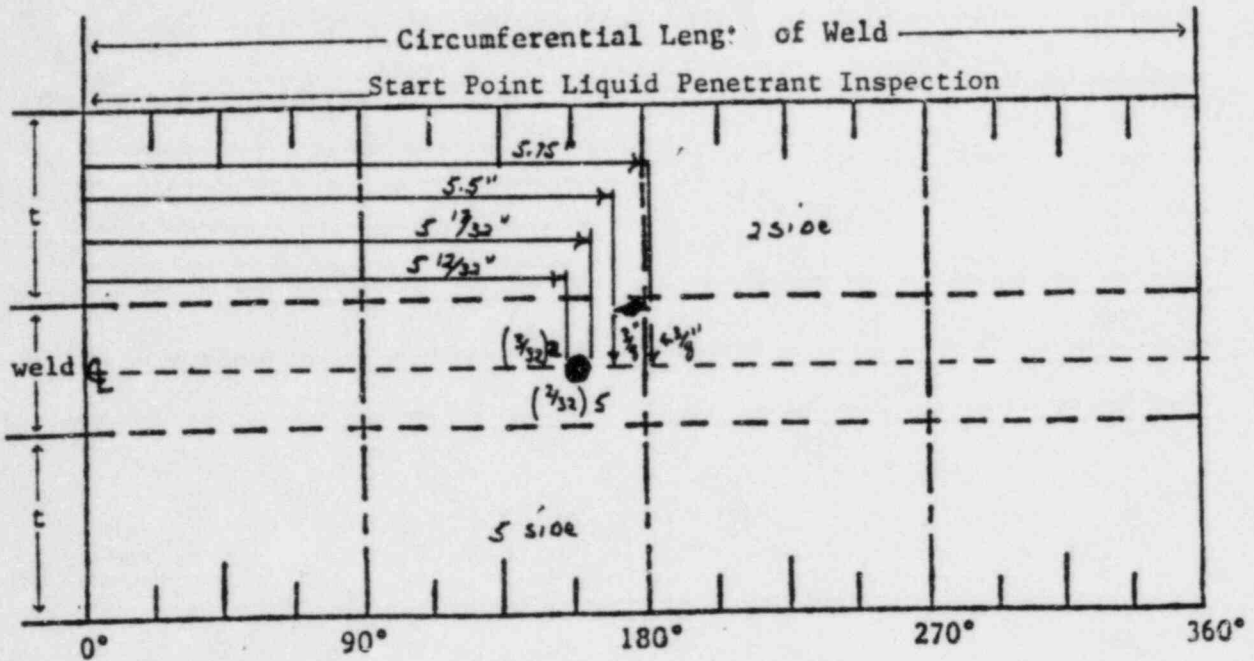
The
Virginia Corp.
of Richmond

Liquid Penetrant

Ron Payne ANII 2/17/82

Indication Record

Customer <i>LPIL</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>24</i>
Procedure <i>ISI-3.1 RO FLZ</i>	Examiner/Level <i>James T. Winters</i>	Date <i>2-16-82</i>	
Component/Piping System <i>Pressurizer spray from loop 1A</i>		VCR Site Supervisor <i>Daniel Evans</i>	
Weld No. <i>24-015</i>	ISO/Drawing No. <i>2006 24 12</i>		



Remarks



The
Virginia Corp.
of Richmond

Liquid Penetrant
Don Payne ANII 3/25/82
Examination Report

Customer <i>LP AND L</i>		Plant <i>WATERFORD</i>		Unit <i>3</i>		Loop/Zone <i>NA/25</i>	
Procedure <i>ISI 3.1, REV 0, F.C. 2</i>		Examiner/Level <i>CR Stawicki II</i>			Date <i>3-22-82</i>		
Component/Piping System <i>PRESSURIZER SPRAY</i>		ISO Drawing No. <i>ZONE 25, REV 2</i>		VCR Supervisor <i>Manuel Denis</i>			
Manufacturer		Type		Batch No.			
Penetrant		<i>SHERWIN INC. DUBL-CHEK</i>		<i>472015</i>			
Developer		<i>SHERWIN INC. DUBL-CHEK</i>		<i>129FG</i>			
Remover		<i>SHERWIN INC. DUBL-CHEK</i>		<i>112T4</i>			
Weld Number	Comments	PT Results		VT Results			
		NRI	RI	SAT.	UNSAT.		
<i>25-021</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
<i>25-027</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
<i>25-030</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
<i>25-031</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			



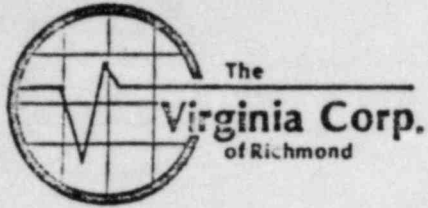
The
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Liquid Penetrant
Don R. Payne ANII 3/23/82
 Examination Report

Customer <i>LD&L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>25</i>
Procedure <i>ISI-3.1 Rev. O.F.C. 2</i>	Examiner/Level <i>Jimmie P. Suter II / Stephen S. Morris I</i>	Date <i>3-22-82</i>	
Component/Piping System <i>combined Press. Spray @ Press.</i>	ISO Drawing No. <i>Zone 25 Rev. 2</i>	VCP Supervisor <i>Manuel Jones</i>	

	Manufacturer	Type	Batch No.
Penetrant	<i>Sherwin Inc.</i>	<i>Dubl-Check</i>	<i>47L015</i>
Developer	<i>Sherwin Inc.</i>	<i>Dubl-Check</i>	<i>129-FG</i>
Remover	<i>Sherwin Inc.</i>	<i>Dubl-Check</i>	<i>112C4</i>

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>25-022</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>25-026</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



Liquid Penetrant *D. Payne ANII 5/27/82* Examination Report

Customer LP & L		Plant Waterford		Unit 3	Loop/Zone N/A 25	
Procedure ISI 3.1 R.O. FC. 2		Examiner/Level Robert W Anderson II			Date 5-25-82	
Component/Piping System Combined Pressurizer Spray at Pressurizer		ISO Drawing No. Zone 25 Rev. 2 F.C. 0		VPR Supervisor <i>Donald Jones</i>		
	Manufacturer	Type	Batch No.			
Penetrant	Sherwin	Dubl-Chek	47L-015			
Developer	Sherwin	Dubl-Chek	129-F6			
Remover	Sherwin	Dubl-Chek	112-C4			
Weld Number	Comments	PT Results		VT Results		
		NRI	RI	SAT.	UNSAT.	
25-005		✓		✓		
25-006		✓		✓		
25-007		✓		✓		
25-008		✓		✓		
25-009		✓		✓		
25-014		✓		✓		
25-015		✓		✓		
25-019		✓		✓		
25-020		✓		✓		



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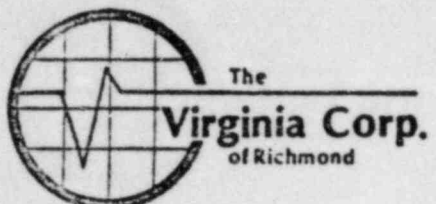
Liquid Penetrant

D. Payne ANII 5/26/82
Examination Report

Customer LP&L	Plant WATERFORD	Unit 3	Loop/Zone 25
Procedure ISI 3.1 REV.0, F.C-2	Examiner/Level J.B. Evans Level II	Date 5-25-82	
Component/Piping System COMBINED PRESS. SPRAY	ISO Drawing No. ZONE 25, REV. 2	WCR Supervisor Daniel Jensen	

	Manufacturer	Type	Batch No.
Penetrant	SHERWIN	DUBL-CHEK	47L015
Developer	SHERWIN	DUBL-CHEK	129F6
Remover	SHERWIN	DUBL-CHEK	11204

Weld Number	Comments	PI Results		VT Results	
		NRI	RI	SAT.	UNSAT.
25-018		/		/	
25-023		/		/	



Liquid Penetrant
D. Payne ANII 5/27/82
 Examination Report

Customer <i>LP&L</i>	Plant <i>WATERFORD</i>	Unit <i>3</i>	Loop/Zone <i>25</i>
Procedure <i>ISI 3.1, REV. 0 FC. 2</i>		Examiner/Level <i>TC Blain J Level II</i>	Date <i>5-26-82</i>
Component/Piping System <i>COMBINED PRESS. SPRAY AT PRESSURIZER</i>		ISO Drawing No. <i>ZONE 25 REV. #2, FC-0</i>	VCR Supervisor <i>Daniel Jones</i>

	Manufacturer	Type	Batch No.
Penetrant	<i>SHERWIN</i>	<i>DUBLECHEK/DP51</i>	<i>47L015</i>
Developer	<i>SHERWIN</i>	<i>DUBLECHEK/DR-60</i>	<i>129F6</i>
Remover	<i>SHERWIN</i>	<i>DUBLECHEK/D-100</i>	<i>11204</i>

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>25-012</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>25-016</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



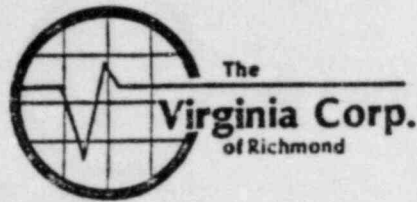
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Liquid Penetrant
D. Payne ANII ^{5/28/82}
Examination Report

Customer LP + L	Plant WATERFORD	Unit 3	Loop/Zone NA/ 25
Procedure ISI 3.1 REV-0 FC-2	Examiner/Level Robert W Anderson II	Date 5-27-82	
Component/Piping System COMBINED PRESSURIZER SPRAY AT PRESS.	ISO Drawing No. ZONE 25 REV-2 FC-0	VGR Supervisor <i>Wendell Jones</i>	

	Manufacturer	Type	Batch No.
Penetrant	SHERWIN	DUBL-CHEK	47L-015
Developer	SHERWIN	DUBL-CHEK	129-F6
Remover	SHERWIN	DUBL-CHEK	112-C4

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
25-003		✓		✓	
25-024		✓		✓	



The
Virginia Corp.
of Richmond

Liquid Penetrant

D. Payne ANEI 9/9/82
Examination Report

Customer <i>L. p. & L</i>	Plant <i>Waterford</i>	Unit <i>III</i>	Loop/Zone <i>N/A/25</i>
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Procedure <i>I.S.I. 3.1. Rev. 0 FC-2</i>	Examiner/Level <i>Barry Aul / L. II</i>	Date <i>6-8-82</i>
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Component/Piping System <i>COMBINED PRESSURIZER SPAY at PRESSURIZER</i>	ISO Drawing No. <i>ZONE# 25 REV. 2 FC-0</i>	VCR Supervisor <i>David Jones</i>
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	Manufacturer	Type	Batch No.
Penetrant	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>47LO15</i>
Developer	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>129F-6</i>
Remover	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>225B4</i>

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT	UNSAT.
<i>25-001</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



The Virginia Corp.
of Richmond

Liquid Penetrant
D. Payne ANZI 7/20/82
Examination Report

Customer <i>LP+L</i>	Plant <i>WATERFORD</i>	Unit <i>3</i>	Loop / Zone <i>25</i>
Procedure <i>ISI 3.1 REV-0 FC-3</i>	Examiner/Level <i>Blatt Ce' Anderson II</i>	Date <i>7-19-82</i>	
Component/Piping System <i>COMBINED PRESS. SPRAY AT PRESS.</i>	ISO Drawing No. <i>ZONE 25 REV-2 FC-0</i>	VCR Supervisor <i>W. [Signature]</i>	

	Manufacturer	Type	Batch No.
Penetrant	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>47L-015</i>
Developer	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>129-FG</i>
Remover	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>225-B4</i>

Weld/Item Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>25-028</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>25-029</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



M.R. Martin, ANIT 4-15-82.
**Ultrasonic Data Sheet
 for
 Thickness Measurement**

Customer LP&L	Plant Waterford	Unit 3	Loop/Zone -/25
Component/Piping System Combined Pressurizer Spray at Pressurizer		Examiner/Level BURLINGAME I	Date 4-13-82
Procedure 151-2.5 Rev 0	Iso/Drawing No. Zone 25R2	VCR Supervisor <i>[Signature]</i>	Continuation Sheet Attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

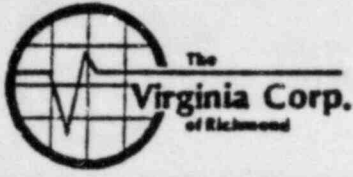
Equipment

Instrument	Transducer		Calibration
Mfgr. Sonic	Mfgr. Panometrics	Size 1/4"	Cal. Block UT-103
Model FTS Mark I			Cal. Block ---
S/N 780836	Freq. 5 MHz		Range Cal. 8DIV = .435"
Reject Min			Calibration Checks
Damp. Min	Serial No. 44650		0935 - 1130
Freq. 5 MHz			
Rep. Rate 3000	Coax. Cable 6' twin Coax		
Filter Hi			
Video Diff	Gain 62 db		
Couplant Sonotrace 40 Batch 8119			

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
25-021	12	.54"	>.54"	.45"	25-026	12	.46"	.54"	.42"
	2	.54"	>.54"	.45"		2	.45"	>.54"	.43"
	4	.54"	>.54"	.45"		4	.47"	>.54"	.43"
	6	.54"	>.54"	.43"		6	.46"	>.54"	.42"
	8	.54"	>.54"	.42"		8	.47"	>.54"	.43"
25-022	10	.54"	>.54"	.43"	25-027	10	.47"	>.54"	.43"
	12	.52"	.43"	>.54"		12	.41"	.40"	.47"
	2	.51"	.43"	.54"		2	.43"	.42"	.54"
	4	.51"	.42"	>.54"		4	.47"	.43"	.53"
	6	.47"	.43"	>.54"		6	.46"	.43"	.53"
	8	.50"	.43"	>.54"	8	.48"	.42"	.54"	
	10	.51"	.43"	>.54"	10	.47"	.41"	.54"	

Sketch/Identification **SEVERAL THICKNESS MEASUREMENTS ON THE TEE SIDE OF THE WELD WERE GREATER THAN .54". .54" WAS FULL SCREEN CALIBRATION.**



Ultrasonic Data Sheet

M.R. Martin for
 AMSE 4-15-82
 Thickness Measurement

Continuation Page of

Customer <i>LP & L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>-/25</i>
Component/Piping System <i>Combined Pressurizer Spray & Pressurizer</i>	Examiner/Level <i>BURLINGTON II</i>	Date <i>4-13-82</i>	
Procedure <i>ISI-2.5 Rev 0</i>	Iso/Drawing No. <i>Zone 25 Rev 2</i>	VCR Supervisor <i>Daniel Jones</i>	

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
<i>25-030</i>	<i>12</i>	<i>.54"</i>	<i>.43"</i>	<i>>.54"</i>					
	<i>2</i>	<i>.53"</i>	<i>.45"</i>	<i>>.54"</i>					
	<i>4</i>	<i>.52"</i>	<i>.43"</i>	<i>>.54"</i>					
	<i>6</i>	<i>.51"</i>	<i>.43"</i>	<i>>.54"</i>					
	<i>8</i>	<i>.49"</i>	<i>.41"</i>	<i>>.54"</i>					
<i>✓</i>	<i>10</i>	<i>.51"</i>	<i>.42"</i>	<i>>.54"</i>					
<i>25-031</i>	<i>12</i>	<i>.48"</i>	<i>>.54"</i>	<i>.43"</i>					
	<i>2</i>	<i>.49"</i>	<i>>.54"</i>	<i>.45"</i>					
	<i>4</i>	<i>.50"</i>	<i>>.54"</i>	<i>.43"</i>					
	<i>6</i>	<i>.51"</i>	<i>>.54"</i>	<i>.43"</i>					
	<i>8</i>	<i>.53"</i>	<i>>.54"</i>	<i>.42"</i>					
<i>✓</i>	<i>10</i>	<i>.52"</i>	<i>>.54"</i>	<i>.42"</i>					

Sketch/Identification



The Virginia Corp. of Richmond

M.R. Martin, ANII 4-15-82

Ultrasonic Examination Report

Customer LPEL Plant Waterford Unit 3 Loop/Zone -125 Iso/Drawing No. Zone 25 Rev 2

Procedure 151-2.7 Rev 0 FC-2 Exam Surface O.D. Examiner/Level BURLINGAME II VCR Supervisor Daniel Jones Date 4-13-82

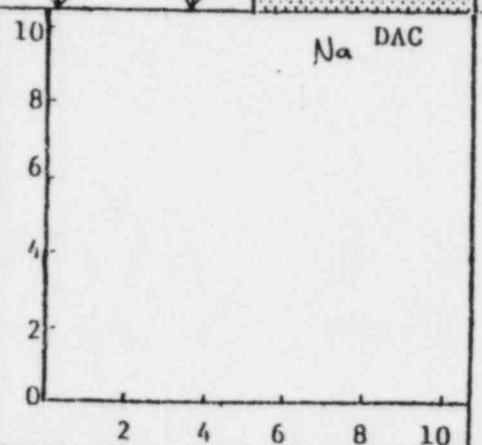
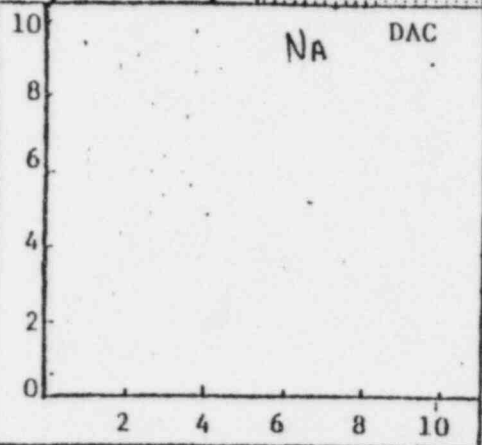
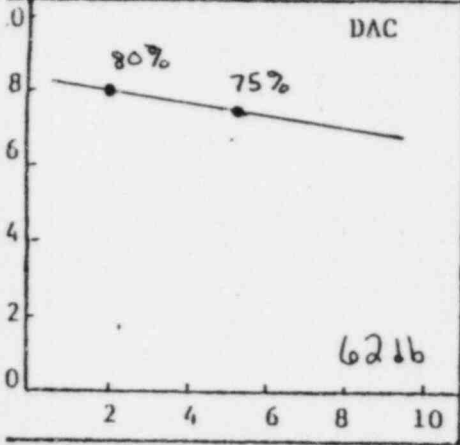
Component/Piping System Combined Pressurizer Spray at Pressurizer Pipe Size 4" Weld Type Butt Cal: Block UT-103 Couplant: Sonotrace Type 40 Batch No. 8119

Continuation Sheet Attached Yes No

Field Changes: Yes No If Yes, Number FC-2

Instrument specifications table including Transducer, S/N, Size, Frequency, Beam Angle, Mfer., S/N, Model, RepRate, Reject, Filter, Damp, Coax, Freq., Video, and FTS Mark I.

Main data table with columns for Calibration 0°, 2 & 5 Scan, 7 & 8 Scan, and Calibration Checks (0°, 45°, 60°). Includes Signal Amp, Sweep, Sound Entry Point To, and In/Out values.



Additional Comments/Sketch



4-25-82
M.R. Martin ANII
Ultrasonic Examination Report

Customer L P & L	Plant Waterford	Unit 3	Loop/Zone -/25	Isa/Drawing No. Zone 25 Rev 2
Procedure ISI-2.7 Rev 0 FC-2	Exam Surface O. D.	Examiner/Level BURLINGAME II	VCR Supervisor Dani O'Jana	Date 4-13-82
Component/Piping System Combined Pressurizer Spray at Pressurizer		Pipe Size 4"	Weld Type Butt	Cal: Block <input checked="" type="checkbox"/> Couplant: Sonotrace UT-103 Type 40 Batch No. 8119

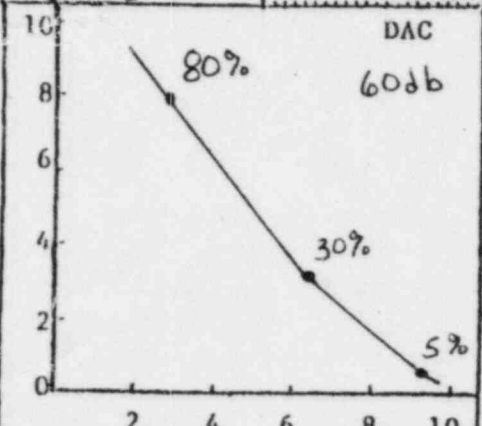
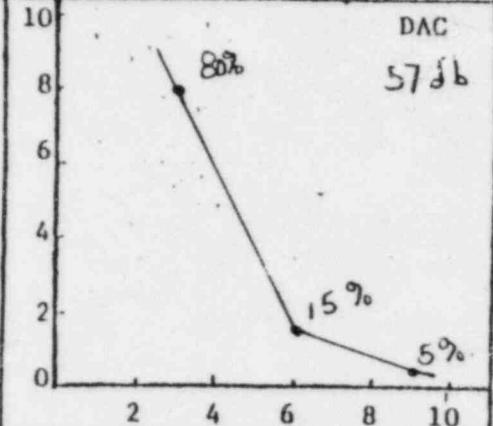
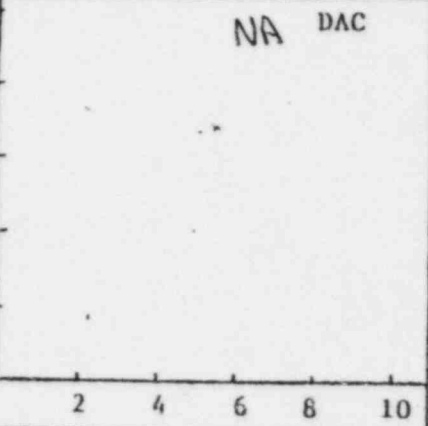
Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No **FC-2**
 If Yes, Number

Transducer	0°	45°	60°	Instrument			
	S/N NA	C25901	NA	Mfr. Sonic	Model DS304E	RepRate 1000	FTS Mark 1
Size	1/4"			Reject MIN	Filter Hi	Coax 16'	
Frequency	5 MHz			Damp MIN	Conx 16'		
Beam Angle	45°			Freq. WB	Video NORM		

Calibration 0°			2 & 5 Scan					7 & 8 Scan				
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:			Signal Amp.	Sweep	Sound Entry Point To:		
					Scribe Line	50% DAC	NA			Scribe Line	50% DAC	NA
1T	NA	NA	80%	3	NA	NA	NA	80%	3.2	NA	NA	NA
2T			15%	6.1				30%	6.4			
3T			5%	9				5%	9.4			
Ref. dB			57 db					60 db				

Calibration Checks					
0°		45°		60°	
In	Out	In	Out	In	Out
NA	NA	0935	1130	NA	NA



Additional Comments/Sketch

J.R. Martin, ANEE 4-15-82



Ultrasonic Examination Report - Continuation Sheet

Customer <i>LP³L</i>	Plant <i>WATERFORD</i>	Unit <i>3</i>	Loop/ Zone <i>25</i>	Iso/Drawing No. <i>ZONE 25 REF. 2</i>
Procedure <i>ISI-27, R.C, FC-2</i>	Exam Surface <i>OD</i>	Examiner/Level <i>BURLINGAME II</i>	VCR Supervisor <i>Dani...</i>	Date <i>4-13-82</i>
Component/Piping System <i>PZR SPRAY</i>	Pipe Size <i>4"</i>	Weld Type <i>BUT</i>	Cal. Block <i>UT-1031.435</i>	Couplant: Type & Batch # <i>SONOTRACE 40 #8119</i>

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
<i>25-034</i>	<i>NA</i>	<i>PAR</i>	<i>YES</i>	<i>YES</i>	<i>NA</i>	<i>TEE BRANCH ~ 2%</i>	<i>CLEAN</i>	<i>GROUND</i>	<i>NI</i>	<i>SAT</i>	
<i>25-032</i>		<i>YES</i>	<i>PAR</i>	<i>YES</i>		<i>TEE BRANCH ~ 5%</i>	<i>CLEAN</i>	<i>GROUND</i>	<i>NI</i>	<i>SAT</i>	
<i>25-036</i>		<i>PAR</i>	<i>YES</i>	<i>YES</i>		<i>INTRADOSE, ELBOW ~ 25%</i>	<i>CLEAN</i>	<i>GROUND</i>	<i>NI</i>	<i>SAT</i>	
<i>25-027</i>		<i>YES</i>	<i>PAR</i>	<i>YES</i>		<i>INTRADOSE, ELBOW ~ 25%</i>	<i>CLEAN</i>	<i>GROUND</i>	<i>NI</i>	<i>SAT</i>	
<i>25-030</i>		<i>YES</i>	<i>PAR</i>	<i>YES</i>		<i>TEE BRANCH ~ 2%</i>	<i>CLEAN</i>	<i>GROUND</i>	<i>NI</i>	<i>SAT</i>	
<i>25-031</i>	<i>V</i>	<i>YES</i>	<i>YES</i>	<i>YES</i>	<i>V</i>		<i>CLEAN</i>	<i>GROUND</i>	<i>NI</i>	<i>SAT</i>	



D. Payne ANEI 5/27/82
 Ultrasonic Data Sheet
 for
 Thickness Measurement

Customer LP & L	Plant Waterford	Unit 3	Loop/Zone N/A 25
Component/Piping System Combined Pressurizer Spray	Examiner/Level James T. West ANEI	Date 5-26-82	
Procedure ISI 2.5 R.O.F.C. Zone 25 R2FCO	Iso/Drawing No.	VCR Supervisor Daniel Jones	Continuation Sheet Attached Yes [] No []

Equipment

Instrument		Transducer		Calibration	
Mfgr. Sonic	Mfgr. Acrotech	Size .25"	Cal. Block UT 103		
Model Mark I	Freq. 5.0 MHz		Cal. Block N/A		
S/N 780836	Serial No. K19135		Range Cal. 1"		
Reject off	Coax. Cable 6 ft. BNC to Microdot		Calibration Checks		
Damp. min	Gain 74 db		8:10	Initial	
Freq. 5.0 MHz			10:37	Out	
Rep. Rate 1K			10:40	In	
Filter off			11:40	Final	
Video Normal					
Couplant Sonotrace 40 #8124					

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
25-008	12	.440	.440	.500	25-015	12	.540	.440	.490
	2	.540	.435	.500		2	.520	.450	.500
	4	.500	.435	.470		4	.450	.430	.490
	6	.540	.440	.460		6	.500	.420	.480
	8	.560	.450	.500		8	.500	.420	.470
25-009	10	.560	.440	.520	25-016	10	.530	.435	.460
	12	.520	.500	.440		12	.500	VALVE	.450
	2	.560	.500	.430		2	.500		.440
	4	.530	.500	.430		4	.520		.455
	6	.490	.490	.430		6	.500		.400
	8	.500	.490	.460	8	.520		.410	
	10	.520	.490	.450	10	.500		.430	

Sketch/Identification



Ultrasonic Data Sheet
 for *D. Payne ANIZ 5/27/82*
 Thickness Measurement
 Continuation Page 2 of 2

Customer <i>LP&L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>N/A 25</i>
Component/Piping System <i>Combined Pressurizer Spray</i>	Examiner/Level <i>James W. [Signature]</i>	Date <i>5-26-82</i>	
Procedure <i>ISI 2.5 R.O F.C. ZJE</i>	Iso/Drawing No: <i>Zone 25 R.2 F.C.O</i>	VGR Supervisor <i>Wendell [Signature]</i>	

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
<i>25-018</i>	<i>12</i>	<i>.520</i>	<i>.470</i>	<i>VALVE</i>	<i>25-023</i>	<i>12</i>	<i>.440</i>	<i>.590</i>	<i>.430</i>
	<i>2</i>	<i>.510</i>	<i>.470</i>			<i>2</i>	<i>.470</i>	<i>.590</i>	<i>.420</i>
	<i>4</i>	<i>.470</i>	<i>.450</i>			<i>4</i>	<i>.450</i>	<i>.610</i>	<i>.440</i>
	<i>6</i>	<i>.500</i>	<i>.440</i>			<i>6</i>	<i>.480</i>	<i>.630</i>	<i>.460</i>
	<i>8</i>	<i>.500</i>	<i>.450</i>			<i>8</i>	<i>.490</i>	<i>.590</i>	<i>.460</i>
	<i>10</i>	<i>.500</i>	<i>.460</i>	<i>10</i>	<i>.440</i>	<i>.500</i>	<i>.430</i>		
<i>25-019</i>	<i>12</i>	<i>.500</i>	<i>.560</i>	<i>.460</i>					
	<i>2</i>	<i>.520</i>	<i>.540</i>	<i>.450</i>					
	<i>4</i>	<i>.500</i>	<i>.590</i>	<i>.440</i>					
	<i>6</i>	<i>.490</i>	<i>.690</i>	<i>.435</i>					
	<i>8</i>	<i>.460</i>	<i>.630</i>	<i>.450</i>					
	<i>10</i>	<i>.530</i>	<i>.580</i>	<i>.460</i>					
<i>25-020</i>	<i>12</i>	<i>.460</i>	<i>.440</i>	<i>.550</i>					
	<i>2</i>	<i>.500</i>	<i>.440</i>	<i>.560</i>					
	<i>4</i>	<i>.540</i>	<i>.440</i>	<i>.640</i>					
	<i>6</i>	<i>.500</i>	<i>.470</i>	<i>.700</i>					
	<i>8</i>	<i>.550</i>	<i>.470</i>	<i>.630</i>					
	<i>10</i>	<i>.550</i>	<i>.460</i>	<i>.560</i>					

Sketch/Identification



The
Virginia Corp.
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Ultrasonic Examination Report

D. Payne ANIE 5/2/82

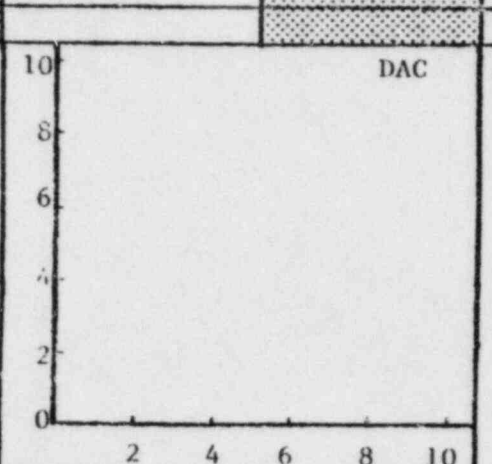
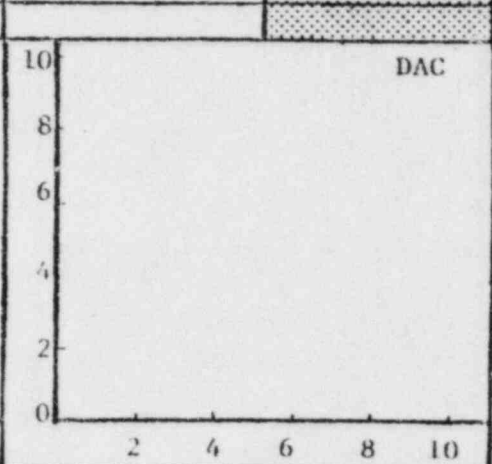
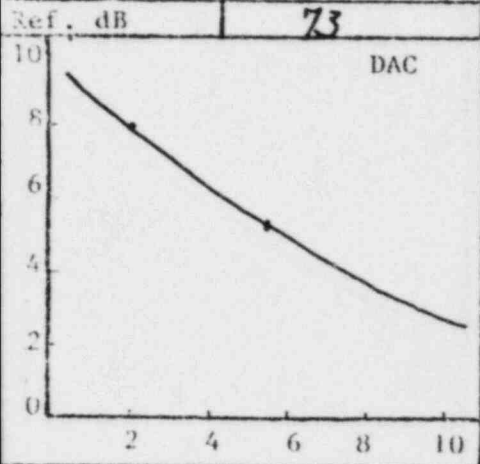
Customer <i>LPIL</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>N/A/25</i>	Iso/Drawing No. <i>ZONE 25 R2 FC0</i>
Procedure <i>ISI 2.7 R0 FC 2</i>	Exam Surface <i>O.D</i>	Examiner/Level <i>James M. Lusk LY II</i>		VER Supervisor <i>Daniel Jones</i>
Component/Piping System <i>Combined Pressurizer Spray at Pressurizer</i>		Pipe Size <i>4"</i>	Weld Type <i>Butt</i>	Date <i>May 26, 1982</i>
Cal. Block <i>UT-103</i>			Couplant: <i>Sonotrace</i> Type <i>40</i> Batch No <i>8124</i>	

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 IF Yes, Number *2*

Transducer	0°	45°	60°	Instrument		
	S/N <i>KB2362</i>	<i>NA</i>	<i>NA</i>	Mfer. <i>Sonics</i>	Model <i>Mark I</i>	
	Size <i>.25"</i>	<i>I</i>	<i>I</i>	S/N <i>05473E</i>	RepRate <i>1K</i>	
	Frequency <i>2.25 MHz</i>	<i>I</i>	<i>I</i>	Reject <i>OFF</i>	Filter <i>OFF</i>	
	Beam Angle <i>0°</i>	<i>I</i>	<i>I</i>	Damp <i>Min</i>	Coax <i>6'</i>	
			Freq. <i>2.0 MHz</i>	Video <i>Norm</i>		

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks						
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°		
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out	
<i>1/4T</i>	<i>80%</i>	<i>2.0</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>8:40 PM</i>	<i>11:50 PM</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>
<i>3/4T</i>	<i>55%</i>	<i>5.6</i>															
<i>1T</i>	<i>N/A</i>	<i>8.0</i>															



Additional Comments/Sketch

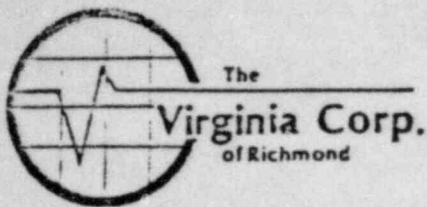
D. Payne, ANIT 5/27/02

Ultrasonic Examination Report - Continuation Sheet Page 2 of 3



Customer <i>LPIL</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>NA/25</i>	Iso/Drawing No. <i>Zone 25 R2 FCO</i>
Procedure <i>1512.7 R0 FL2</i>	Exam Surface <i>0.0</i>	Examiner/Level <i>James H. Hunt 200</i>	VCR Supervisor <i>Daniel Dena</i>	Date <i>May 26, 1992</i>
Component/Piping System <i>Combined Resurifier Spray</i>	Pipe Size <i>4"</i>	Weld Type <i>Butt</i>	Cal. Block <i>UT-103</i>	Souplant: Type & Batch # <i>Sonotrac 40 8124</i>

Weld No.	Base Metal Scan	Scan Direction			Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8		Base Metal	Weld	UT	Visual	
25-008	YES	NA	NA	NA	NA	Clean	Ground	NI	SAT	N/A
25-009	YES				See attached sheet	Clean	Ground	NI	SAT	
25-015	YES				See attached sheet	Clean	Ground	NI	SAT	
25-016	PAR				See attached sheet	Clean	Ground	NI	SAT	
25-018	PAR				See attached sheet	Clean	Ground	NI	SAT	
25-019	YES				See attached sheet	Clean	Ground	NI	SAT	
25-020	YES				See attached sheet	Clean	Ground	NI	SAT	
25-023	YES				See attached sheet	Clean	Ground	NI	SAT	



Date May 26, 1982

Page 3 of 3

To: _____

Subject Inspection Limitations -
Zone 25 R2 FCO

- Weld No. 25-009 Had intermittent loss of contact with the surface as a result of O.D. weld geometry, for a loss of approx. 25%
- Weld No. 25-015 Had intermittent loss of contact with the surface as a result of O.D. weld geometry, for a loss of approx. 10%
- Weld No. 25-016 Had intermittent loss of contact with the surface as a result of O.D. weld geometry, for a loss of approx. 20%. Also 2 scan not done as a result of valve 25-017.
- Weld No. 25-018 Had intermittent loss of contact with the surface as a result of O.D. weld geometry, for a loss of approx 20%. Also 5 scan not done as a result of valve 25-017
- Weld No. 25-019 Had intermittent loss of contact with the surface as a result of O.D. weld geometry, for a loss of approx 25%.
- Weld No. 25-020 Had intermittent loss of contact with the surface as a result of O.D. weld geometry, for a loss of approx 25%.
- Weld No. 25-023 Had intermittent loss of contact with the surface as a result of O.D. weld geometry, for a loss of approx 20%.

Signed James M. Wraith



The
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Ultrasonic Examination Report *D. Payne* ANZI 6/1/82

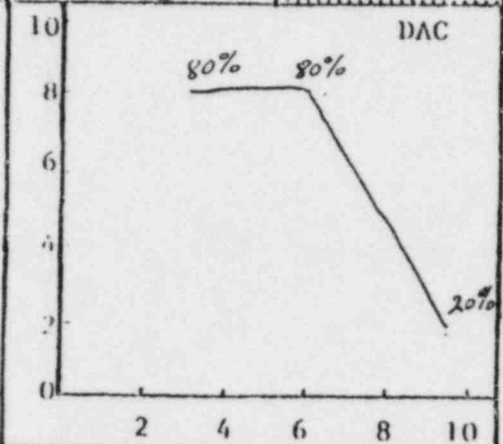
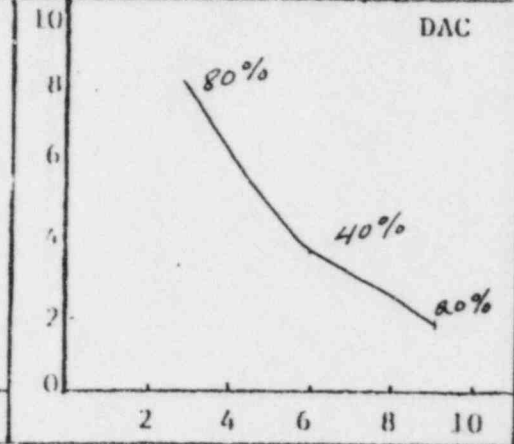
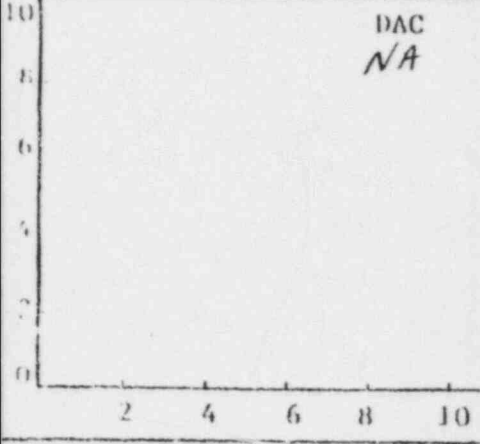
Customer <i>LP+L</i>		Plant <i>Waterford</i>		Unit <i>#3</i>	Loop/Zone <i>NA/25</i>	Iso/Drawing No. <i>Zone 25, R.2.</i>	
Procedure <i>ISI-2.7, R.O, FC.2</i>		Exam Surface <i>00</i>		Examiner/Level <i>Kent White/II</i>		VGR Supervisor <i>Donal J. ...</i>	
Component/Piping System <i>Combined Pressurizer Spray at Pressurized</i>		Pipe Size <i>4"</i>		Weld Type <i>BUTT</i>		Cal. Block <i>UT-103</i>	
						Couplant: <i>#8124</i> Type: <i>Sony 40</i> Batch No.:	
						Date <i>5-31-82</i>	

Continuation Sheet Attached
 Yes No

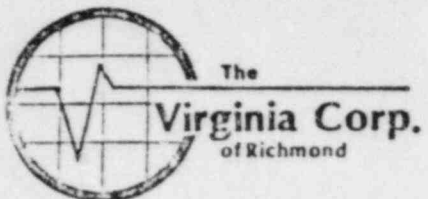
Field Changes:
 Yes No
 If Yes, Number *2*

	Transducer			Instrument			
	S/N	<i>NA</i>	<i>NA</i>	Mfr.	<i>SONIC</i>	Model	<i>MARK I</i>
	Size			S/N	<i>05473 E</i>	RepRate	<i>1K</i>
	Frequency			Reject	<i>off</i>	Filter	<i>off</i>
	Beam Angle			Damp	<i>MIN.</i>	Coax	<i>6'</i>
				Freq.	<i>2.25</i>	Video	<i>None</i>

Calibration 0"			2 & 5 Scan				7 & 8 Scan				Calibration Checks					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
<i>1T</i>	<i>NA</i>	<i>NA</i>	<i>80%</i>	<i>3</i>	<i>NA</i>		<i>80%</i>	<i>3.1</i>	<i>NA</i>		<i>NA</i>	<i>NA</i>	<i>1100</i>	<i>1430</i>	<i>NA</i>	<i>NA</i>
<i>2T</i>			<i>40%</i>	<i>6</i>			<i>80%</i>	<i>6.2</i>								
<i>3T</i>			<i>20%</i>	<i>9</i>			<i>20%</i>	<i>9.3</i>								



Additional Comments/Sketch

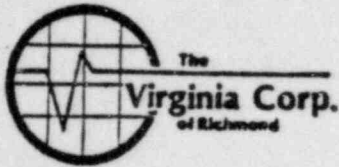


Ultrasonic Examination Report - Continuation Sheet

R. Payne ANII 1/82

Customer <i>L.P.H.</i>	Plant <i>Waterford</i>	Unit <i>#3</i>	Loop/ Zone <i>NA/25</i>	Iso/Drawing No. <i>Zone 25.R.2.</i>
Procedure <i>ISI-2.7, R.O.F.C.2</i>	Exam Surface <i>OD.</i>	Examiner/Level <i>Kevin White/II</i>	VCR Supervisor <i>Daniel Jones</i>	Date <i>5-31-82</i>
Component/Piping System <i>Combined Pressurizer Spray at Pressurizer</i>	Pipe Size <i>4"</i>	Weld Type <i>Butt</i>	Cal. Block <i>UT-103</i>	Couplant: Type & Batch # <i>Sonotrace 40, Bch # 8124</i>

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
<i>25-008</i>	<i>NA</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>NA</i>	<i>None</i>	<i>Smooth</i>	<i>Smooth</i>	<i>NI</i>	<i>Sat</i>	
<i>25-009</i>	<i>NA</i>	<i>Par</i>	<i>Yes</i>	<i>Yes</i>	<i>NA</i>	<i>Partial on 2 scan, Tee joint configuration on the in side radius limiting the full coverage of the HAZ.</i>	<i>Smooth</i>	<i>Smooth</i>	<i>NI</i>	<i>Sat</i>	
<i>25-015</i>	<i>NA</i>	<i>Yes</i>	<i>Par</i>	<i>Yes</i>	<i>NA</i>	<i>Partial on 5 scan, Tee joint configuration on the inside radius limiting the full coverage of the HAZ.</i>	<i>Smooth</i>	<i>Smooth</i>	<i>NI</i>	<i>Sat</i>	
<i>25-016</i>	<i>NA</i>	<i>NO</i>	<i>Yes</i>	<i>Par</i>	<i>NA</i>	<i>No on 2 scan due to the Valve body configuration. Partial on 7 & 8 scan due to the valve body configuration on the 2 side only.</i>	<i>Smooth</i>	<i>Smooth</i>	<i>NI</i>	<i>Sat</i>	
<i>25-018</i>	<i>NA</i>	<i>Yes</i>	<i>NO</i>	<i>Par.</i>	<i>NA</i>	<i>NO on 5 scan due to the valve body configuration. Partial on 7 & 8 scan due to the valve body configuration on the 5 side only.</i>	<i>Smooth</i>	<i>Smooth</i>	<i>NI</i>	<i>Sat</i>	
<i>25-019</i>	<i>NA</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>NA</i>	<i>None</i>	<i>Smooth</i>	<i>Smooth</i>	<i>NI</i>	<i>Sat</i>	
<i>25-020</i>	<i>NA</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>NA</i>	<i>None</i>	<i>Smooth</i>	<i>Smooth</i>	<i>NI</i>	<i>Sat</i>	
<i>25-023</i>	<i>NA</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>NA</i>	<i>None</i>	<i>Smooth</i>	<i>Smooth</i>	<i>NI</i>	<i>Sat</i>	



D. Payne ANII 9/28/82
 Ultrasonic Data Sheet
 for
 Thickness Measurement

Customer <i>LP&L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>NIA 25</i>
Component/Piping System <i>Combined Press. Spray</i>	Examiner/Level <i>David E. Jensen</i>	Date <i>6/24/82</i>	
Procedure <i>15125 REV 0</i>	Iso/Drawing No. <i>Zone 25 Rev 2</i>	VCR Supervisor <i>None</i>	Continuation Sheet Attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

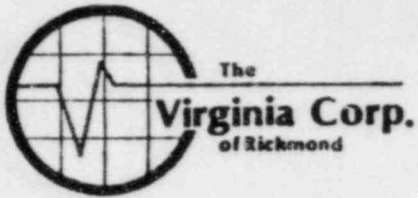
Equipment

Instrument		Transducer		Calibration
Mfgr. <i>Sonic</i>	Mfgr. <i>KB-Accotech</i>	Size <i>.25"</i>	Cal. Block <i>UT-102</i>	
Model <i>Mark I</i>			Cal. Block <i>NIA</i>	
S/N <i>05473E</i>	Freq. <i>2.25 MHz</i>		Range Cal. <i>.68"</i>	
Reject <i>OFF</i>			Calibration Checks	
Damp. <i>Min</i>	Serial No. <i>JD 4816</i>		<i>Initial 10:52</i>	
Freq. <i>2.0 MHz</i>	Coax. Cable <i>6' Dual</i>		<i>Final 11:55</i>	
Rep. Rate <i>1K</i>	Gain <i>68 dB</i>			
Filter <i>OFF</i>				
Video <i>Norm</i>				
Couplant <i>Scotchcal 40 ES 124</i>				

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
<i>25-024</i>	<i>12</i>	<i>.50"</i>	<i>.42"</i>	<i>.51"</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>
<i>25-024</i>	<i>2</i>	<i>.50"</i>	<i>.42"</i>	<i>.50"</i>					
<i>25-024</i>	<i>4</i>	<i>.48"</i>	<i>.41"</i>	<i>.54"</i>					
<i>25-024</i>	<i>6</i>	<i>.49"</i>	<i>.42"</i>	<i>.56"</i>					
<i>25-024</i>	<i>8</i>	<i>.48"</i>	<i>.43"</i>	<i>.55"</i>					
<i>25-024</i>	<i>10</i>	<i>.46"</i>	<i>.42"</i>	<i>.52"</i>					

Sketch/Identification



Ultrasonic Examination Report

D. Payne ANET 9/28/82

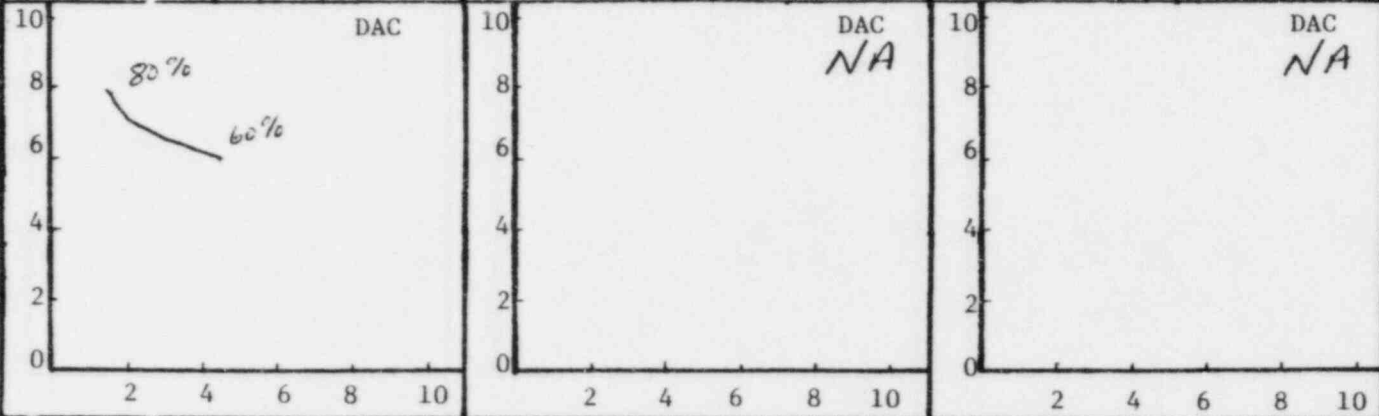
Customer <i>LP+K</i>		Plant <i>Waterford</i>		Unit <i>#3</i>	Loop/Zone <i>NIA/25</i>	Iso/Drawing No. <i>zone 25 Rev-2</i>	
Procedure <i>ISI 2.7 Rev 0.03</i>		Exam Surface <i>OD</i>	Examiner/Level <i>Deirdre Z...</i>		VCR Supervisor <i>Deirdre Z...</i>		Date <i>6-24-82</i>
Component/Piping System <i>Combined Pressurizer SPIAY</i>			Pipe Size <i>4"</i>	Weld Type <i>BUTT</i>	Cal. Block # <i>UT-103</i>	Couplant: Type <i>SONIC</i> Batch No <i>8124</i>	

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 If Yes, Number *FC-3*

Transducer	0°	45°	60°	Instrument				
	S/N	<i>504816</i>	<i>NA</i>	<i>NA</i>	Mfer.	<i>SONIC</i>	Model	<i>MARK I</i>
	Size	<i>.25"</i>			S/N	<i>0-5473 G</i>	RepRate	<i>1K</i>
	Frequency	<i>2.25MHz</i>			Reject	<i>OFF</i>	Filter	<i>OFF</i>
	Beam Angle	<i>0°</i>	<i>✓</i>	<i>✓</i>	Damp	<i>MIN.</i>	Coax	<i>6' Dual</i>
				Freq.	<i>2.0 MHz</i>	Video	<i>Noise</i>	

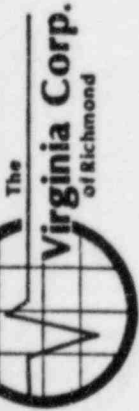
Calibration 0°			4 & 5 Scan				7 & 8 Scan				Calibration Checks						
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°		
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out	
<i>Y-4 T</i>	<i>80%</i>	<i>1.5</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>10:52</i>	<i>11:55</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>
<i>3/4 T</i>	<i>60%</i>	<i>4.5</i>															
Ref. dB	<i>70 db</i>		<i>NA</i>				<i>NA</i>										



Additional Comments/Sketch

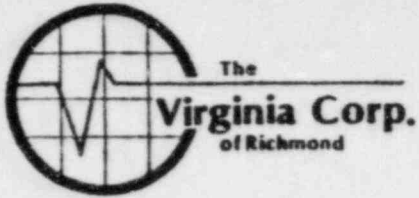
D. Payne ANI 6/28/82

Ultrasonic Examination Report - Continuation Sheet



Weld No.	Base Metal Scan	Scan Direction			Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8		Base Metal	Weld	UT	Visual	
25-24	fac	N/A	N/A	N/A	weld crown	Suspect	contour ground	N/A	Sat	N/A

Customer: L. P. L. Waterford
 Plant: Waterford
 Unit #: 3
 Loop/Zone: NH/25
 Iso/Drawing No.: Zone 25 Rev. 3
 Procedure: 151-2.7 Rev. 151
 Exam Surface: DD
 Examiner/Level: Steven J. Dena
 Date: 6-24-82
 Component/Piping System: Combined Pre-sulizer SPAY
 Pipe Size: 4"
 Weld Type: BUTT
 Cal. Block Compliant: Type & Batch # UT-103
 Serial Trace 40 Batch # 8122



Ultrasonic Examination Report *D. Payne ANII 6/28/82*

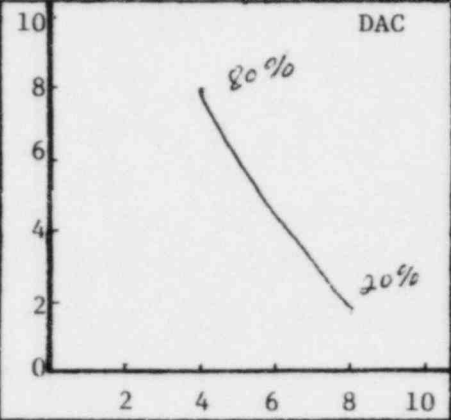
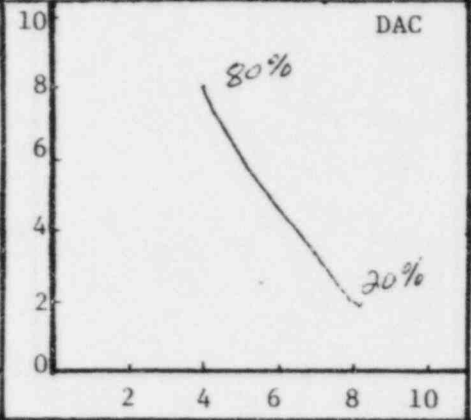
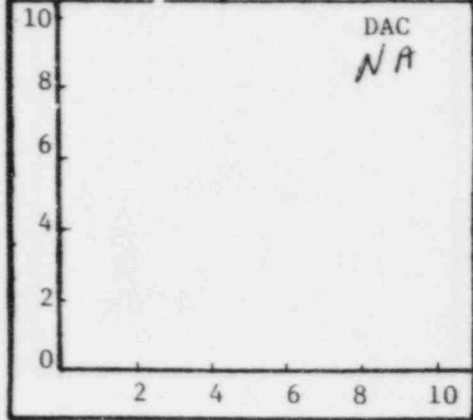
Customer <i>LP+L</i>		Plant <i>Waterford</i>		Unit <i># 3</i>	Loop/Zone <i>125</i>	Iso/Drawing No. <i>Zone 25 Rev. 2</i>	
Procedure <i>151-2.7 Rev. 0 FC.3</i>		Exam Surface <i>OD</i>		Examiner/Level <i>Ronald J. Jones 171</i>		VCR Supervisor <i>Daniel J. Jensen</i>	
Component/Piping System <i>Combined Pressurizer Spray</i>		Pipe Size <i>4"</i>	Weld Type <i>BUTT</i>		Cal. Block # <i>UT-103</i>		Date <i>6-24-82</i>
				Type <i>SONIC 40</i>		Batch No. <i>8124</i>	

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 If Yes, Number *FC.3*

	Transducer			Instrument			
	S/N	<i>NA</i>	<i>225707</i>	Mfr.	<i>SONIC</i>	Model	<i>MARK I</i>
	Size		<i>1.25"</i>	S/N	<i>03704 E</i>	RepRate	<i>1K</i>
	Frequency		<i>2.25 mhz</i>	Reject	<i>OFF</i>	Filter	<i>OFF</i>
	Beam Angle	<i>0°</i>	<i>45°</i>	Damp	<i>MIN.</i>	Coax	<i>6 BNC-MD</i>
			Freq.	<i>2.0 mhz</i>	Video	<i>NO/M</i>	

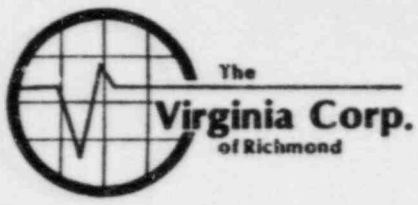
Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks								
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:			Signal Amp.	Sweep	Sound Entry Point To:			0°		45°		60°		
					Scribe Line	50% DAC				Scribe Line	50% DAC		In	Out	In	Out	In	Out	
<i>1 T</i>	<i>NA</i>	<i>NA</i>	<i>80%</i>	<i>4.0</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>80%</i>	<i>4.0</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>11:00</i>	<i>1:35</i>	<i>NA</i>	<i>NA</i>
<i>2 T</i>			<i>20%</i>	<i>8.0</i>				<i>20%</i>	<i>8.0</i>										
Ref. dB	<i>NA</i>		<i>61 db</i>					<i>64 db</i>											



Additional Comments/Sketch

R. Payne ANII 6/28/82

Ultrasonic Examination Report - Continuation Sheet



Customer <i>L P+L</i>	Plant <i>Waterford</i>	Unit <i># 3</i>	Loop/ Zone <i>125</i>	Iso/Drawing No. <i>Zone 25 Rev. 2</i>
Procedure <i>ISI-2.7 Ref. of FC 3</i>	Exam Surface <i>OD</i>	Examiner/Level <i>David J. Tolson II</i>	VCR Supervisor <i>Daniel J. Dena</i>	Date <i>6-24-82</i>
Component/Piping System <i>Combined Pressurizer SPLAY</i>	Pipe Size <i>4"</i>	Weld Type <i>BUTT</i>	Cal. Block <i>UT-103</i>	Couplant: Type & Batch # <i>Savotrace 40 Batch #124</i>

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
<i>25-024</i>	<i>N/A</i>	<i>Yes</i>	<i>Yes</i>	<i>Par</i>	<i>N/A</i>	<i>weld crown</i>	<i>Smooth</i>	<i>Control Ground</i>	<i>NI</i>	<i>Sat</i>	<i>see note</i>
						<i>note:</i>					
						<i>I.D. geometry, 360°</i>					
						<i>2 scans, 50% - 120% DAC</i>					



D. Payne ANEZ 7/22/82
 Ultrasonic Data Sheet
 for
 Thickness Measurement

Customer LP&L	Plant Waterford	Unit 3	Loop/Zone NIA/25
Component/Piping System Combined Press. spray	Examiner/Level David T. Tolson III	Date 7/20/82	
Procedure 151.2.5 REV. 0	Isd/Drawing No. Zone 25 REV. 27.6	VCR Supervisor Donult Jensen	Continuation Sheet Attached [] Yes [<input checked="" type="checkbox"/>] No

Equipment

Instrument		Transducer		Calibration
Mfgr. Sonics	Mfgr. Parametrics	Size .25"	Cal. Block UT-103	
Model Mark I	Freq. 5.0 MHz	Serial No. 44650	Cal. Block NIA	
S/N 01058E	Coax. Cable 6' BNC-Dual	Gain 67dB	Range Cal. .66" at 10.0	
Reject OFF	Video Norm	Couplant Sonotrace 40# 8124	Calibration Checks	
Damp. Min.			Initial 8:34	
Freq. 5.0 MHz			Final 12:19	
Rep. Rate 115				
Filter OFF				

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
25-028	12	.53"	.58"	.44"	NIA	NIA	NIA	NIA	NIA
25-028	2	.55"	.59"	.46"					
25-028	4	.54"	.59"	.46"					
25-028	6	.55"	.58"	.47"					
25-028	8	.55"	.57"	.46"					
25-028	10	.55"	.57"	.44"					

Sketch/Identification



Ultrasonic Examination Report

D. Payne ANII 7/20/82

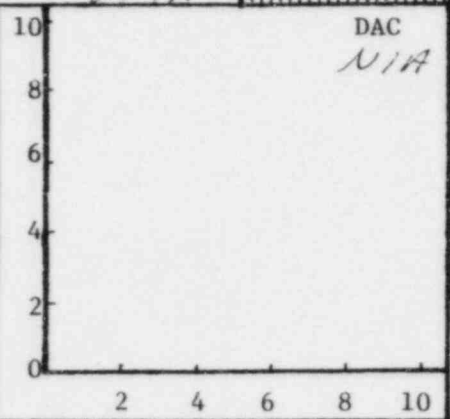
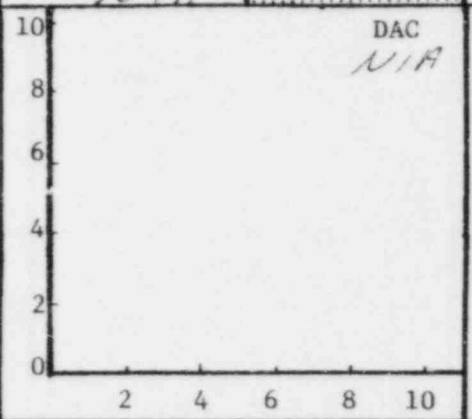
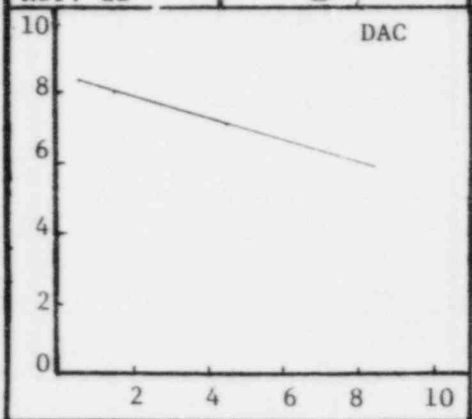
Customer <i>LP&L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>VIA/25</i>	Iso/Drawing No. <i>Zone 25 Rev. 2F.C.1</i>
Procedure <i>FL3</i>	Exam Surface <i>o.d.</i>	Examiner/Level <i>David J. Johnson</i>		VCR Supervisor <i>Daniel Jones</i>
Component/Piping System <i>Combined Pressurizer Spray</i>		Pipe Size <i>4"</i>	Weld Type <i>Butt</i>	Cal. Block <i>UT-103</i>
			Couplant: <i>5010 Trace</i>	Date <i>7/20/82</i>
			Type <i>40</i>	Batch No. <i>8124</i>

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 If Yes, Number *3*

	Transducer	0°	45°	60°	Instrument			
	S/N	<i>44650</i>	<i>NIA</i>	<i>NIA</i>	Mfr.	<i>Sonic</i>	Model	<i>Mark I</i>
	Size	<i>.25"</i>			S/N	<i>61058E</i>	RepRate	<i>1K</i>
	Frequency	<i>5.0 MHz</i>			Reject	<i>OFF</i>	Filter	<i>OFF</i>
	Beam Angle	<i>0°</i>			Damp	<i>Min</i>	Coax	<i>6' BNC - Dual</i>
					Freq.	<i>5.0 MHz</i>	Video	<i>Norm</i>

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks						
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°		
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out	
																	In
<i>3/4 T</i>	<i>80%</i>	<i>1.5</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>8:34</i>	<i>12:19</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>
<i>3/4 T</i>	<i>70%</i>	<i>4.5</i>															
Ref. dB	<i>61</i>		<i>NIA</i>				<i>NIA</i>										



Additional Comments/Sketch



Ultrasonic Examination Report *D. Payne ANII 7/27/82*

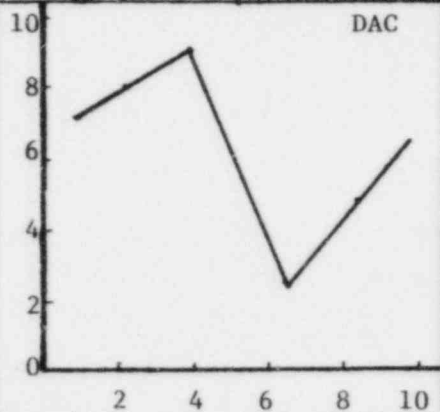
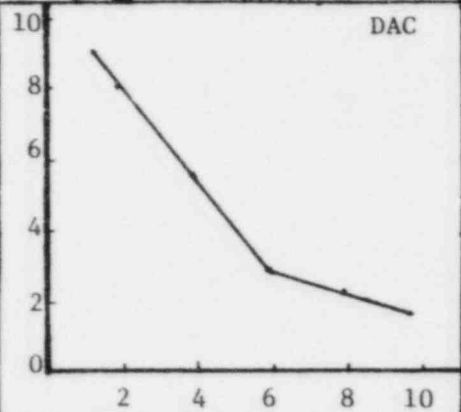
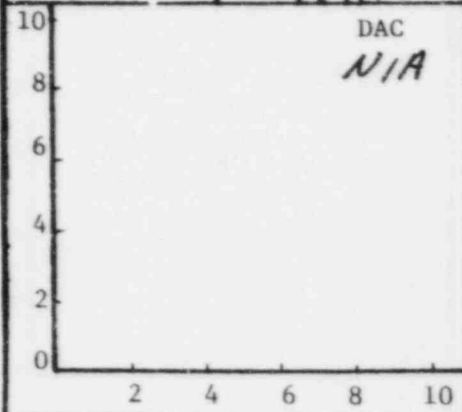
Customer <i>L P & L</i>		Plant <i>Waterford</i>		Unit <i>3</i>		Loop/Zone <i>NIA/25</i>		Iso/Drawing No. <i>Zone 2.5 Rev 2 F.G.1</i>	
Procedure <i>FC.3 1.51.2.7 Rev. 0</i>		Exam Surface <i>O.P.</i>		Examiner/Level <i>David J. Tolbert</i>		VCR Supervisor <i>Daniel Jones</i>		Date <i>7/20/82</i>	
Component/Piping System <i>Combined Pressurizer Sparg</i>				Pipe Size <i>4"</i>		Weld Type <i>Butt</i>		Cal. Block <i>UT-103</i>	
						Couplant: <i>Sonotrace</i>		Type <i>40</i>	
								Batch No. <i>8134</i>	

Continuation Sheet Attached
 Yes No

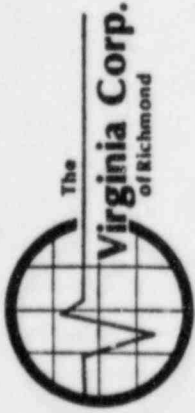
Field Changes:
 Yes No
 If Yes, Number *3*

Transducer	0°	45°	60°	Instrument			
S/N	<i>NIA</i>	<i>M17155</i>	<i>NIA</i>	Mfr.	<i>Sonic</i>	Model	<i>Meckl</i>
Size		<i>.50"</i>		S/N	<i>0105RE</i>	RepRate	<i>1K</i>
Frequency		<i>10MHz</i>		Reject	<i>OFF</i>	Filter	<i>Hi</i>
Beam Angle		<i>45°</i>		Damp	<i>Min.</i>	Coax	<i>6'8"UC-MO</i>
				Freq.	<i>10MHz</i>	Video	<i>Norm</i>

Calibration 0°			2 & 5 Scan			7 & 8 Scan			Calibration Checks							
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
<i>1T</i>	<i>NIA</i>	<i>NIA</i>	<i>80%</i>	<i>2.0</i>	<i>NIA</i>	<i>NIA</i>	<i>80%</i>	<i>2.3</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>					
<i>2T</i>			<i>55%</i>	<i>4.0</i>			<i>90%</i>	<i>4.1</i>								
<i>3T</i>			<i>30%</i>	<i>6.0</i>			<i>25%</i>	<i>6.6</i>								
<i>4T</i>			<i>25%</i>	<i>8.0</i>			<i>50%</i>	<i>8.3</i>								
Ref. dB	<i>NIA</i>		<i>52</i>				<i>51</i>									



Additional Comments/Sketch



Ultrasonic Examination Report - Continuation Sheet

D. Payne AMET 7/27/82

Customer: **L.P.G.L.** Plant: **Waxwood 3** Unit: **3** Loop/Zone: **VIA/25** Iso/Drawing No.: **Z00525 REV 2561**
Procedure: **F.C.3** Exam Surface: **0.D.** Examiner/Level: **David J. Johnson** VOR Supervisor: **David J. Johnson** Date: **7/20/82**
1512.2 Rev 0 Pipe Size: **4"** Weld Type: **butt** Cal. Block Cop'ant: Type & Batch # **UT-103 Sonotrace 40 #8124**
Component/Piping System: **Combined Pressure Spar**

Weld No.	Base Metal Scan	Scan Direction	Inspection Limitations			Surface Condition		Examination Results		Remarks		
			2	5	7 & 8	Base Metal	Weld	UT	Visual			
						Smooth	Contour Ground					
25028	Fac	Fac	Yes	Fac	Fac	Weld Crown	Smooth	Contour Ground	NI	Sat.	Intermittent I.D. beam.	
						nozzle configurations (2 scan limit to 1/8" from toe of weld due to nozzle)					80° 270°	
												50% 10%
												Recons
												scan.
												I.D. beam.
												2 scan 90°
												90% Pac.
												I.D. beam.
												2 scan 190°
												-220° 50%
												80% Pac.



D. Pagan ANZI 7/27/82
 Ultrasonic Data Sheet
 for
 Thickness Measurement

Customer LPTL	Plant Waterford	Unit 3	Loop/Zone NH/25
Component/Piping System Combined Reservoirs	Examiner/Level David Z. Zek...	Date 7/21/82	
Procedure 1512.5 Rev. 0	Iso/Drawing No. Zone 25 Rev. 25.1	VCR Supervisor Daniel Jones	Continuation Sheet Attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Equipment				
Instrument		Transducer		Calibration
Mfgr. Sonic	Mfgr. KB-Aerotech	Size .25"	Cal. Block UT-18	
Model MuckI			Cal. Block 114	
S/N C1610E *	Freq. 2.25 MHz		Range Cal. 1.91 to 10.0	
Reject OFF			Calibration Checks	
Damp. Min	Serial No. JD4816		Initial 12.33	
Freq. 2.0 MHz	Coax. Cable 6' BNC-Duo!		Final 14.42	
Rep. Rate 1K	Gain 74dB			
Filter OFF				
Video Norm				
Couplant Scotchice 40 #8124				

Examination Results									
Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
25-029	12	.78"	1.15"	.65"	N/A	N/A	N/A	N/A	N/A
25-029	2	.65"	1.05"	.65"					
25-029	4	.69"	1.11"	.63"					
25-029	6	.75"	1.15"	.63"					
25-029	8	.73"	1.03"	.63"					
25-029	10	.69"	1.09"	.61"					

Sketch/Identification
 * SEE NCR # 017 OF ERRATA



Ultrasonic Examination Report *B. Payne ANZI 7/21/82*

Customer <i>LP+L</i>		Plant <i>Waterford</i>		Unit <i>3</i>	Loop/Zone Iso/Drawing No. <i>UW/25 Zone 25 Rev 2 F.C.1</i>	
Procedure <i>ISI 28 Rev 2</i>		Exam Surface <i>C.P.</i>	Examiner/Level <i>David Johnson III</i>		VOR Supervisor <i>Donald J. Jones</i>	Date <i>7/21/82</i>
Component/Piping System <i>Combined Pressure Seam</i>			Pipe Size <i>4"</i>	Weld Type <i>BUT</i>	Cal. Block # <i>UT-18</i>	Couplant: <i>Sonotrol</i> Type <i>46</i> Batch No. <i>2124</i>

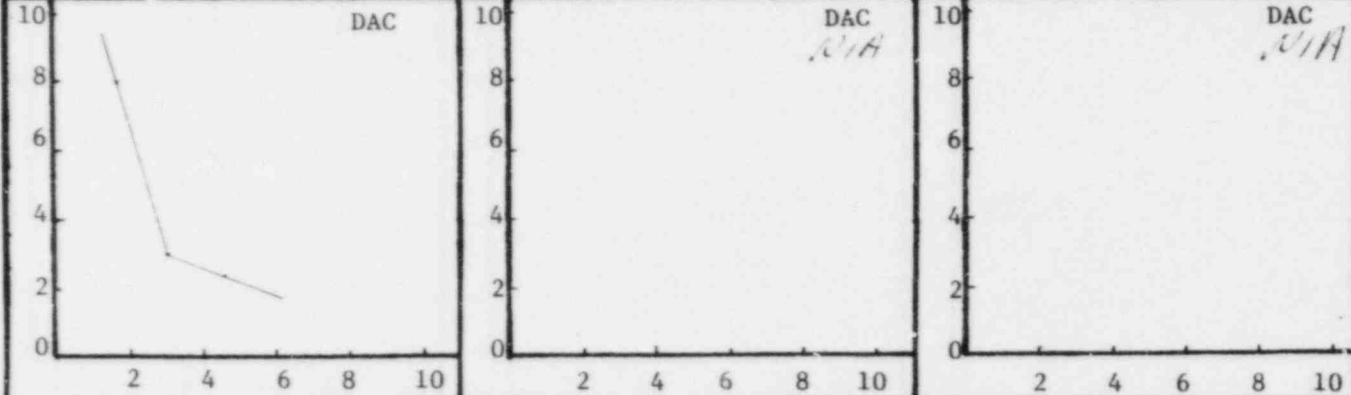
Continuation Sheet Attached
 Yes No

Field changes:
 Yes No
 If Yes, Number *2*

	Transducer			Instrument			
	S/N			Mfr.	Model	Mark E	
	Size			S/N *	RepRate	1K	
	Frequency			Reject	Filter	OFF	
	Beam Angle			Damp	Coax	6.8MHz-Dual	

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks						
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°		
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out	
<i>1/4 T</i>	<i>80%</i>	<i>1.5</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>12.33</i>	<i>14.47</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>
<i>1/2 T</i>	<i>30%</i>	<i>30</i>															
<i>3/4 T</i>	<i>25%</i>	<i>45</i>															

Ref. dB	<i>70</i>	<i>N/A</i>	<i>N/A</i>
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Additional Comments/Sketch
 * SEE NCR # 017 OF ERRATA



Ultrasonic Examination Report

D. Payne ANEI 7/27/82

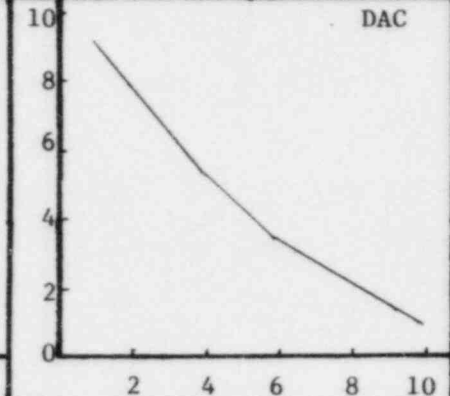
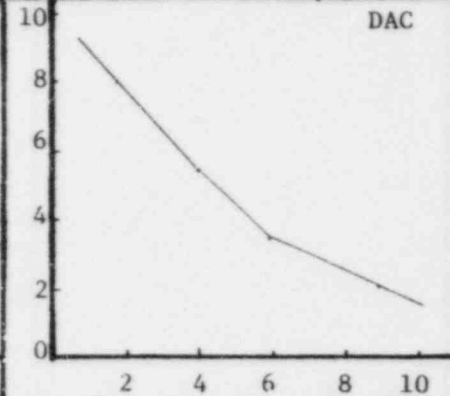
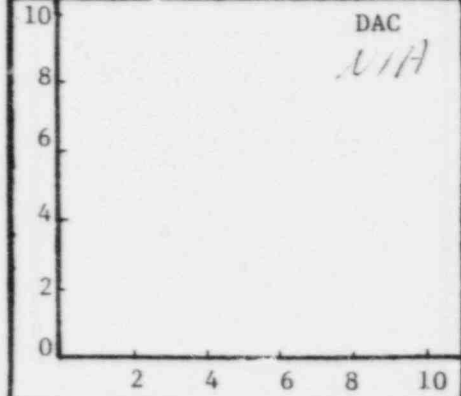
Customer <i>LP&L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>NIA/25</i>	Iso/Drawing No. <i>Zone 25 Rev 2 FCI</i>
Procedure <i>15' 28 Rev 1 FCI</i>	Exam Surface <i>OD</i>	Examiner/Level <i>David Jensen III</i>	VGR Supervisor <i>David Jensen</i>	Date <i>7/21/82</i>
Component/Piping System <i>Combustion Pressure Spray</i>	Pipe Size <i>4"</i>	Weld Type <i>Butt</i>	Cal. Block # <i>UT-18</i>	Couplant: Type <i>40</i> Batch No. <i>8124</i>

Continuation Sheet Attached
 Yes No

Field Changes:
 Yes No
 If Yes, Number *112*

Transducer S/N Size Frequency Beam Angle	30°	45°	60°	Instrument			
	<i>607150</i>	<i>N/A</i>	<i>N/A</i>	Mfer.	<i>Sonic</i>	Model	<i>Mack7</i>
	<i>.50"</i>			S/N	<i>010595</i>	RepRate	<i>1K</i>
	<i>2.25MHz</i>			Reject	<i>OFF</i>	Filter	<i>Hi</i>
	<i>30°</i>			Damp	<i>1710</i>	Coax	<i>6346-MD</i>
				Freq.	<i>1.0MHz</i>	Video	<i>Naco</i>

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		30°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
<i>1/2T</i>	<i>N/A</i>	<i>N/A</i>	<i>80%</i>	<i>20</i>	<i>N/A</i>	<i>N/A</i>	<i>80%</i>	<i>3</i>	<i>N/A</i>	<i>N/A</i>	<i>12:25</i>	<i>14:49</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>
<i>1/4T</i>			<i>55%</i>	<i>40</i>			<i>55%</i>	<i>40</i>								
<i>3/4T</i>			<i>35%</i>	<i>60</i>			<i>35%</i>	<i>60</i>								
<i>1T</i>			<i>22%</i>	<i>88</i>			<i>18%</i>	<i>94</i>								
Ref. dB	<i>N/A</i>		<i>57</i>				<i>54</i>									



Additional Comments/Sketch
Calibration for austenetic material.



The
Virginia Corp.
of Richmond

Ultrasonic Examination Report *D. Payne ANII 7/27/82*

Customer <i>LFL</i>		Plant <i>Waterford</i>		Unit <i>3</i>	Loop/Zone <i>WH/25</i>	Iso/Drawing No. <i>Zone 25 Rev 2 F 61</i>	
Procedure <i>FC2 15128 Rev 1</i>		Exam Surface <i>O.D.</i>	Examiner/Level <i>Russell L. Johnson II</i>		VCR Supervisor <i>Daniel J. Jones</i>		Date <i>7/21/82</i>
Component/Piping System <i>Combined Pressure Rec System</i>			Pipe Size <i>4"</i>	Weld Type <i>Butt</i>	Cal. Block <i>UT-18</i>	Couplant: <i>Sonotrace</i> Type <i>-2</i>	Batch No. <i>8/24</i>

Continuation Sheet Attached
 Yes No

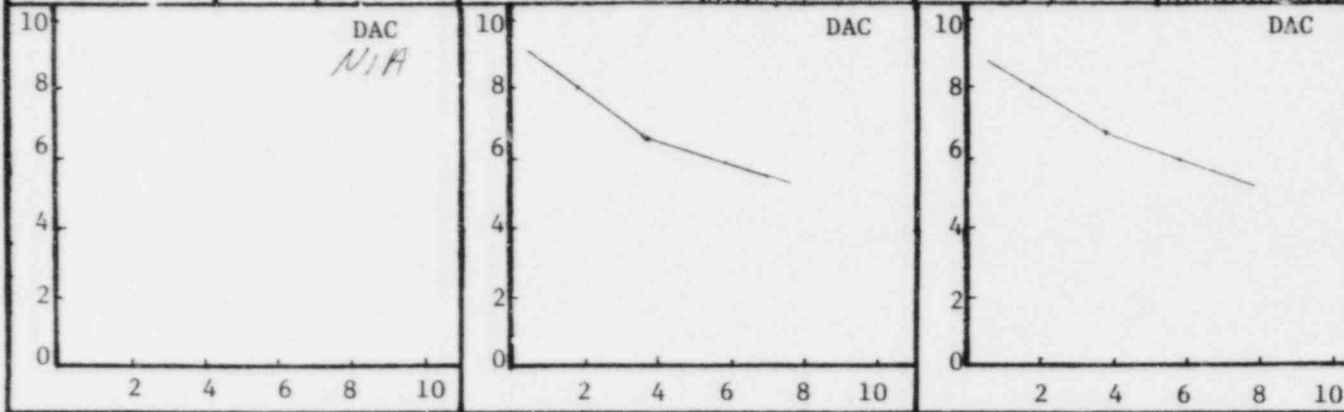
Field Changes:

Yes No
If Yes, Number *2*

	Transducer	30°	45°	60°	Instrument			
	S/N	<i>607150</i>	<i>N/A</i>	<i>N/A</i>	Mfr.	<i>Seais</i>	Model	<i>MuckE</i>
	Size	<i>50"</i>			S/N	<i>01658E</i>	RepRate	<i>1K</i>
	Frequency	<i>2.25 MHz</i>			Reject	<i>OFF</i>	Filter	<i>OFF</i>
	Beam Angle	<i>30°</i>			Damp	<i>Min</i>	Coax	<i>2' BK-50</i>
					Freq.	<i>10 MHz</i>	Video	<i>Norm</i>

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		30°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
<i>1/4T</i>	<i>N/A</i>	<i>N/A</i>	<i>80%</i>	<i>2.0</i>	<i>N/A</i>	<i>N/A</i>	<i>80%</i>	<i>2.0</i>	<i>N/A</i>	<i>N/A</i>	<i>12:28</i>	<i>14:31</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>
<i>1/2T</i>			<i>65%</i>	<i>4.0</i>			<i>65%</i>	<i>4.0</i>								
<i>3/4T</i>			<i>60%</i>	<i>6.0</i>			<i>60%</i>	<i>6.0</i>								

Ref. dB	<i>N/A</i>	<i>59</i>		<i>59</i>												
---------	------------	-----------	--	-----------	--	--	--	--	--	--	--	--	--	--	--	--

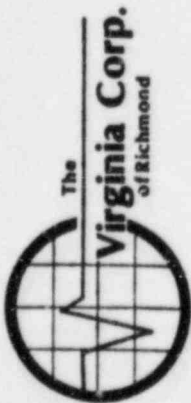


Additional Comments/Sketch
Calibration for carbon steel material.

1/27/82

D. Payne ANE

Ultrasonic Examination Report - Continuation Sheet

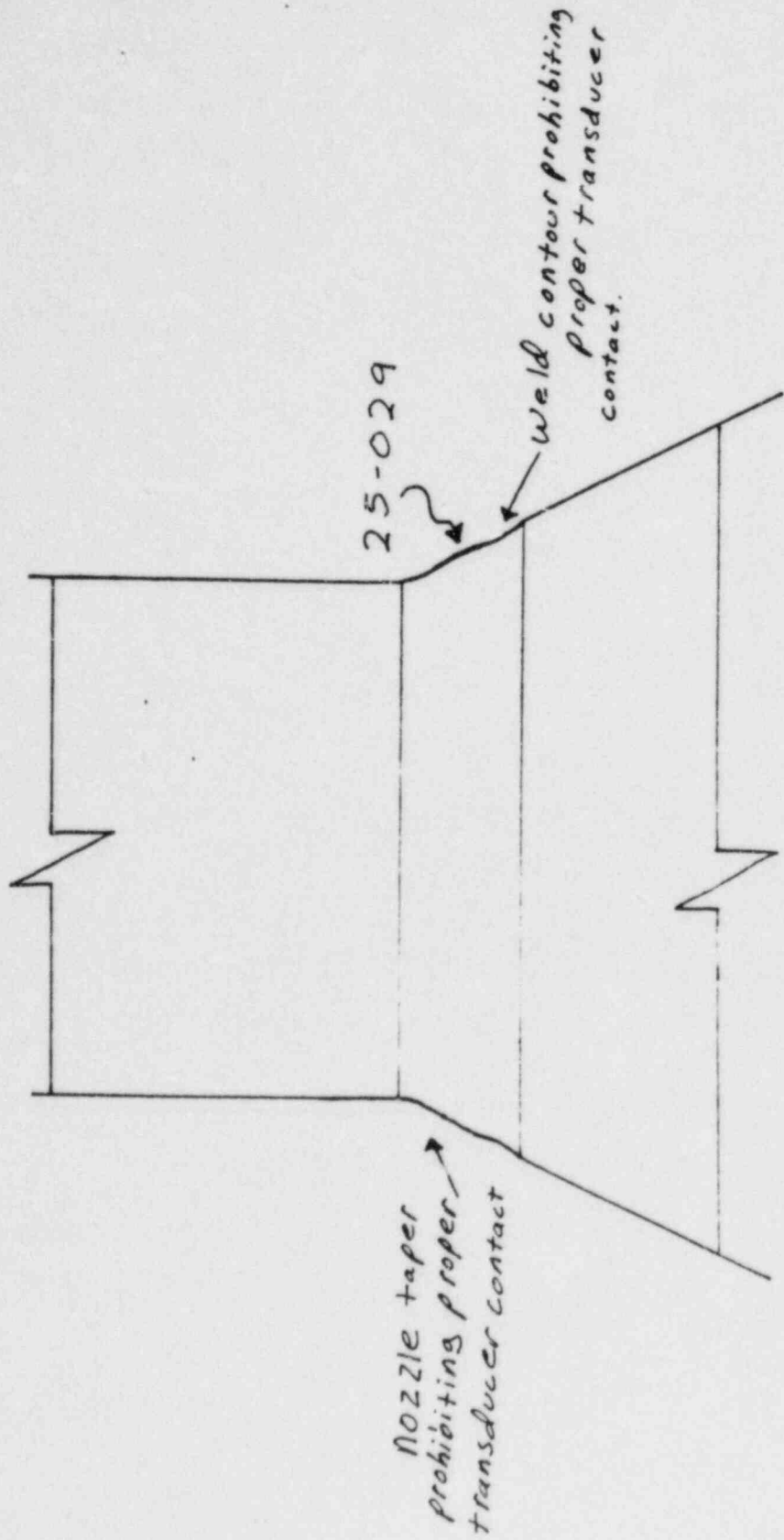
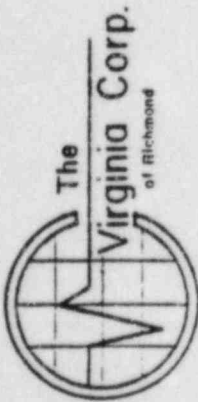


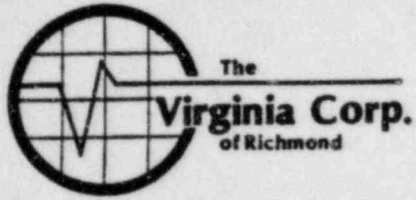
Weld No.	Base Metal Scan	Scan Direction			Inspection Limitations	Surface Condition			Examination Results		Remarks
		2	5	7 & 8		Base Metal	Weld	UT	Visual		
25024	CS	CS	CS	CS	weld center, nozzle no significant anomalies no by approx 20%, 7x8 scan by approx 25%, 2 scan by approx 10%, 5 scan by approx 5%	Smooth	contour ground	NI	Sat.	I.C. Green 360° Inter- mittent, 50% 120°/0° 2 scan	

Customer: LFL Plant: Wirtel Ford Unit: 3 Iso/Drawing No. WFL 2.5 208 Rev 2.5-2.5-1

Procedure: 1st 2.8 Rev 1.5-2.2 Examiner/Level: David S. Tech. # VQR Supervisor: Dennis Date: 7/2/82

Component/Piping System: Combined Pressure Stack Pipe Size: 4" Weld Type: #47 Cal. Block Couplant: Type & Batch # UT-18 Sonotrace 40 # 8/24





Liquid Penetrant

D. Payne ANII 6/28/82
Examination Report

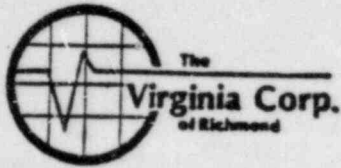
Customer LP&L	Plant WATERFORD	Unit 3	Loop / Zone NA / 26
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Procedure ISI 3.1 REV-0 FC-2	Examiner/Level Robert / Overstreet II RJO	Date 6-26-82
--	---	------------------------

Component/Piping System PRESSURIZER SAFETY VAL. PIPING	ISO Drawing No. ZONE 26 REV-2 FC-2	VCR Supervisor <i>[Signature]</i>
--	--	--------------------------------------

	Manufacturer	Type	Batch No.
Penetrant	SHERWIN	DUBL-CHEK	47L-015
Developer	SHERWIN	DUBL-CHEK	129-F6
Remover	SHERWIN	DUBL-CHEK	225-B4

Weld/Item Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
26-001		✓		✓	
26-002		✓		✓	
26-003		✓		✓	
26-004		✓		✓	
26-006		✓		✓	
26-007		✓		✓	
26-008		✓		✓	
26-009		✓		✓	
26-010		✓		✓	
26-011		✓		✓	



D. Payne ANIZ 7/7/82
Ultrasonic Data Sheet
 for
Thickness Measurement

Customer <i>LP&L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>NIA 26</i>
Component/Piping System <i>Pressurizer Safety Piping</i>	Examiner/Level <i>David J. Johnson</i>	Date <i>6/28/82</i>	
Procedure <i>1512.5 Rev. 0</i>	Iso/Drawing No. <i>Zone 26 Rev. 254</i>	VCR Supervisor <i>Daniel J. ...</i>	Continuation Sheet Attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Equipment

Instrument		Transducer		Calibration
Mfgr. <i>Sonic</i>	Mfgr. <i>KB-Aerotech</i>	Size <i>.50"</i>	Cal. Block <i>UT-17</i>	
Model <i>MARK I</i>			Cal. Block <i>NIA</i>	
S/N <i>07704E</i>	Freq. <i>2.25 MHz</i>		Range Cal. <i>2.5"</i>	
Reject <i>OFF</i>	Serial No. <i>KB 2728</i>		Calibration Checks	
Damp. <i>Min</i>			<i>Initial 08:00</i>	
Freq. <i>2.0 MHz</i>	Coax. Cable <i>6' Dual</i>		<i>Final 11:07</i>	
Rep. Rate <i>1K</i>	Gain <i>65 dB</i>			
Filter <i>OFF</i>				
Video <i>Norm</i>				
Couplant <i>Sonotrace 40 #8124</i>				

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
26-001	12	1.35"	1.35"	1.35"	26-010	12	1.35"	1.33"	1.35"
26-001	2	1.35"	1.35"	1.35"	26-010	2	1.35"	1.35"	1.35"
26-001	4	1.35"	1.40"	1.35"	26-010	4	1.35"	1.35"	1.35"
26-001	6	1.35"	1.38"	1.35"	26-010	6	1.38"	1.43"	1.35"
26-001	8	1.40"	1.35"	1.35"	26-010	8	1.38"	1.38"	1.35"
26-001	10	1.35"	1.35"	1.35"	26-010	10	1.35"	1.35"	1.35"
26-006	12	1.35"	1.33"	1.33"					
26-006	2	1.35"	1.35"	1.33"					
26-006	4	1.35"	1.35"	1.33"					
26-006	6	1.38"	1.43"	1.33"					
26-006	8	1.38"	1.38"	1.35"					
26-006	10	1.35"	1.35"	1.35"					

Sketch/Identification



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Ultrasonic Examination Report

D. P. ANIZ 7/7/82

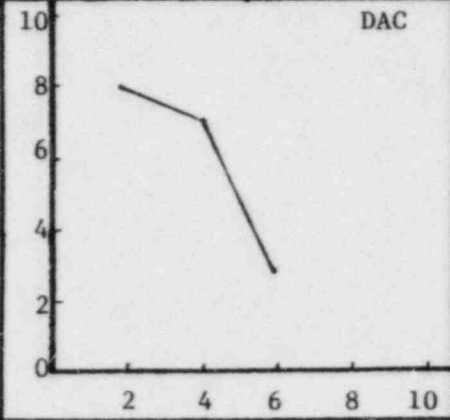
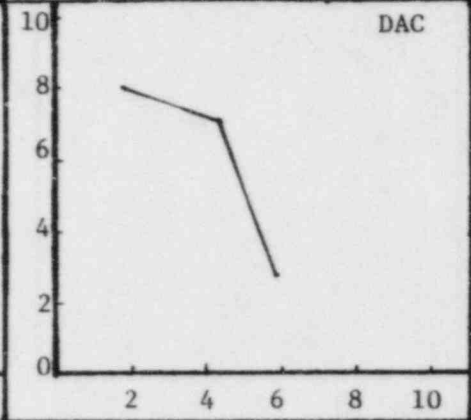
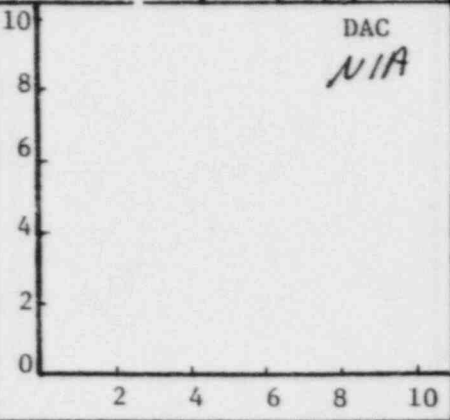
Customer <i>LPXL</i>		Plant <i>Waterford</i>		Unit <i>3</i>	Loop/Zone <i>NIA/26</i>	Iso/Drawing No. <i>Zone 26 REV. 2 F. 1</i>	
Procedure <i>ISI 2.8 REV. 1 EGI</i>		Exam Surface <i>O.D.</i>		Examiner/Level <i>David J. Johnson II</i>		Date <i>6/28/82</i>	
Component/Piping System <i>Pressurizer Safety Piping</i>		Pipe Size <i>8"</i>	Weld Type <i>Butt</i>		Cal. Block # <i>UT-17</i>		Couplant: <i>50:50 trace</i> Type <i>40</i> Batch No. <i>8124</i>

Continuation Sheet Attached
 Yes No

Field Changes:
Yes No
If Yes, Number *1*

	Transducer			Instrument			
	S/N	<i>NIA</i>	<i>NIA</i>	Mfg.	<i>Sonic</i>	Model	<i>Mark II</i>
	Size			S/N	<i>05304E</i>	RepRate	<i>1K</i>
	Frequency			Reject	<i>OFF</i>	Filter	<i>OFF</i>
	Beam Angle			Damp	<i>Min.</i>	Coax	<i>6BNC-MD</i>

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks						
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°		
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out	
<i>1/4T</i>	<i>NIA</i>	<i>NIA</i>	<i>80%</i>	<i>2.0</i>	<i>NIA</i>	<i>NIA</i>	<i>80%</i>	<i>2.0</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>	<i>8:43</i>	<i>11:00</i>
<i>1/2T</i>			<i>70%</i>	<i>4.2</i>			<i>70%</i>	<i>4.2</i>									
<i>3/4T</i>			<i>30%</i>	<i>6.0</i>			<i>30%</i>	<i>6.0</i>									
Ref. dB	<i>NIA</i>		<i>64</i>				<i>64</i>										



Additional Comments/Sketch
Cal. for carbon steel side only.

D. Payne ANZI 7/7/82

Ultrasonic Examination Report - Continuation Sheet

Page 2 of 2



Customer <i>LP46</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/ Zone <i>NH 26</i>	Iso/Drawing No. <i>zone 26 Rev 2</i>	F. 11 <i>26</i>
Procedure <i>1512 BREWERS P.O.</i>	Exam Surface <i>P.O.</i>	Examiner/Level <i>David L. Zelenka</i>	VCR Supervisor <i>Denise Deo</i>	Date <i>6/28/82</i>	
Component/Piping System <i>Pressurized Safety Piping</i>	Pipe Size <i>8"</i>	Weld Type <i>BUTT</i>	Cal. Block <i>UT-17</i>	Couplant: Type & Batch # <i>Sonotone #40 # 8124</i>	

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
<i>26-001</i>	<i>N/A</i>	<i>N/A</i>	<i>Yes</i>	<i>Yes</i>	<i>N/A</i>	<i>N/A</i>	<i>Smooth</i>	<i>Flush</i>	<i>NI</i>	<i>Sat</i>	<i>Inspection</i>
<i>26-006</i>			<i>Yes</i>	<i>Yes</i>			<i>Smooth</i>	<i>Flush</i>	<i>NI</i>	<i>Sat.</i>	<i>25 carbon</i>
<i>26-010</i>			<i>Yes</i>	<i>Yes</i>			<i>Smooth</i>	<i>Flush</i>	<i>NI</i>	<i>Sat.</i>	<i>steel side</i>
											<i>only</i>

Ultrasonic Examination Report

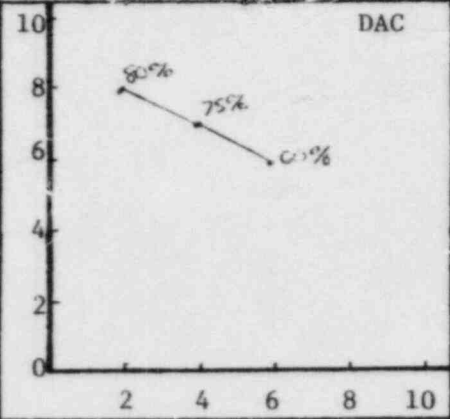
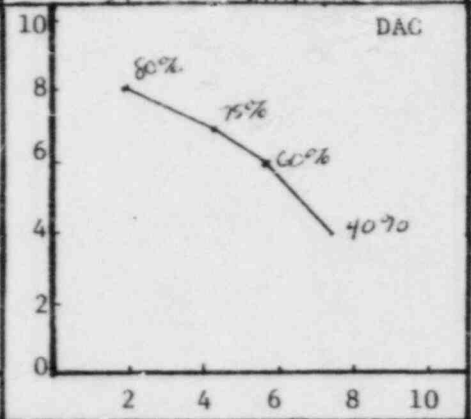
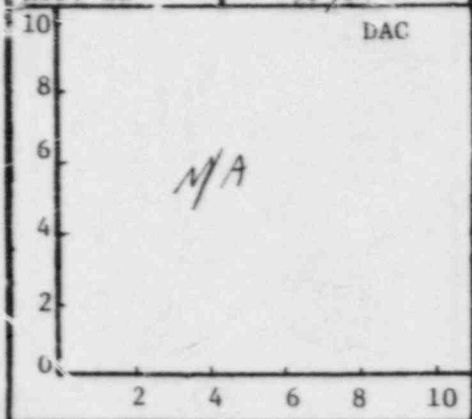
D. Payne ANIE 7/1/82

Customer LP & L	Plant WATERFORD	Unit 3	Loop/Zone N/A/26	Iso/Drawing No. ZONE 26 REV. 2
Procedure K128 REV. 1 FC1	Exam Surface O.D.	Examiner/Level David T. F...	VGR Supervisor Daniel Ann	Date 6/28/82
Component/Piping System Pressurizer Safety Piping	Pipe Size 8"	Weld Type BUTT	Cal. Block UT-17	Couplant: SONITRACE Type 40 Batch No. 8124

Cont. Field C Yes If Yes

Transducer	0°	45°	60°	Instrument				
	S/N	NA	D22063	NA	Mfr.	SONIC	Model	MARK I
	Size		50°		S/N	05473 E	RepRate	1K
	Frequency		2.25 mhz		Reject	OFF	Filter	OFF
Beam Angle		45°		Damp	M.H.	Coax	6' BUL-MD	
				Freq.	2.0 mhz	Video	NORM	

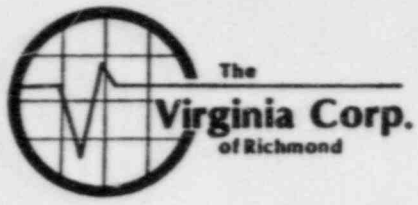
Calibration Reflector Location	2 & 5 Scan				7 & 8 Scan				Calibration Checks								
	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°		
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out	
	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0825	1101	N/A	N/A
1/4 T			80%	2.0			80%	2.0									
1/2 T			75%	4.3			75%	4.3									
3/4 T			60%	6.0			60%	6.0									
1 T			40%	7.6			N/A	N/A									
Ref. dB	N/A				51				44								



Additional Comments/Sketch

Cal. for carbon steel side only.

D. Payne ANIE 7/7/82



Ultrasonic Examination Report - Continuation Sheet Page 2 of 2

Customer LP FL	Plant WATERFORD	Unit 3	Loop/ Zone A/26	Iso/Drawing No. <i>eff</i> ZON576 REV. 2 <i>REV. 1</i>
Procedure 15128 REV. 1 FC. 1	Exam Surface O.D.	Examiner/Level <i>David Payne</i>	VCR Supervisor <i>David Payne</i>	Date 6/28/82
Component/Piping System Pressurizer Safety Piping	Pipe Size 8"	Weld type BUTT	Cal. Block UT-17	Couplant: Type & Batch # SONOTRACE 40/8124

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
26-001	N/A	N/A	Yes	Yes	N/A	Smooth	Flush	Ni	Sat.	Inspection	
26-008			Yes	Yes		Smooth	Flush	Ni	Sat.	at carbon	
26-010			Yes	Yes		Smooth	Flush	Ni	Sat.	steel side only	



Ultrasonic Examination Report

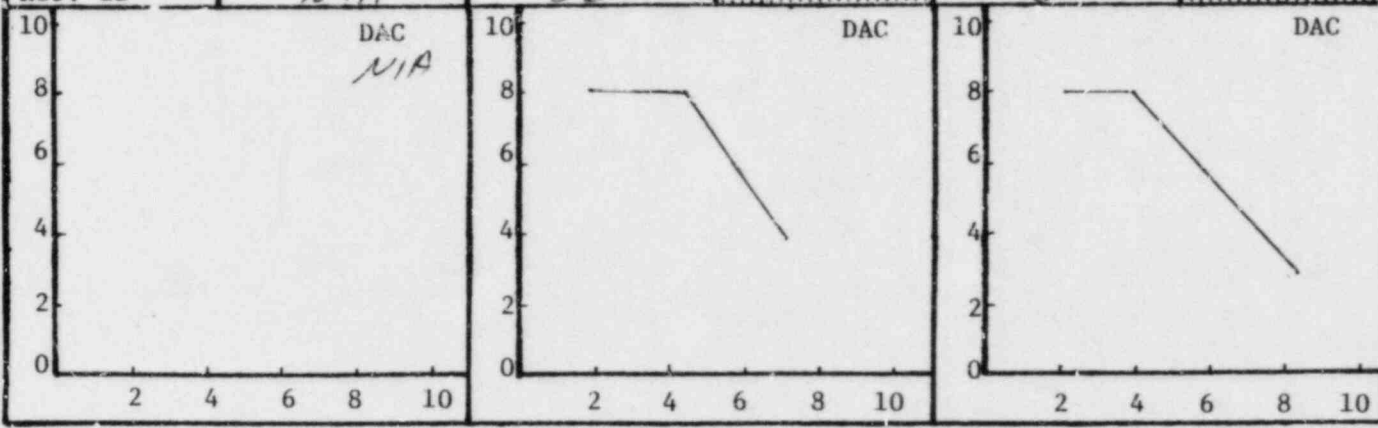
D. Payne ANIE 7/7/82

Customer <i>LP&L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>NIA/26</i>	Iso/Drawing No. <i>Zone 26 Rev. 25-82</i>
Procedure <i>F.CI 1512.8 Rev. 1</i>	Exam Surface <i>O.D.</i>	Examiner/Level <i>David J. Johnson IT</i>		VGR Supervisor <i>Denise G. Gino</i>
Component/Piping System <i>Pressurizer Safety Piping</i>		Pipe Size <i>8"</i>	Weld Type <i>BUH</i>	Date <i>6/28/82</i>
			Cal. Block <i>UT-17</i>	Couplant: <i>Type 40</i> Batch No. <i>2124</i>

Continuation Sheet Attached
 Yes No

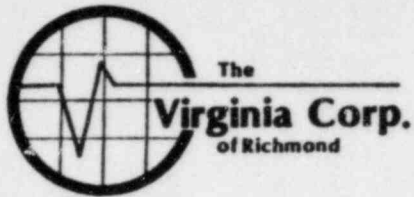
Field Changes: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If Yes, Number <i>1</i>	Transducer	0°	45°	60°	Instrument			
	S/N	<i>NIA</i>	<i>D22063</i>	<i>NIA</i>	Mfr.	<i>SONIC</i>	Model	<i>MARK I</i>
	Size		<i>.50"</i>		S/N	<i>05473E</i>	RepRate	<i>1K</i>
	Frequency		<i>2.25MHz</i>		Reject	<i>OFF</i>	Filter	<i>OFF</i>
	Beam Angle		<i>45°</i>		Damp.	<i>NIA</i>	Coax	<i>6'BU-MD</i>
					Freq.	<i>2.0MHz</i>	Video	<i>NONE</i>

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°	
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out
<i>4T</i>	<i>NIA</i>	<i>NIA</i>	<i>80%</i>	<i>2.0</i>	<i>NIA</i>	<i>NIA</i>	<i>80%</i>	<i>2.0</i>	<i>NIA</i>	<i>NIA</i>	<i>NIA</i>					
<i>5T</i>			<i>80%</i>	<i>4.3</i>			<i>80%</i>	<i>4.3</i>								
<i>34T</i>			<i>60%</i>	<i>6.0</i>			<i>60%</i>	<i>6.0</i>								
<i>1T</i>			<i>40%</i>	<i>7.6</i>			<i>30%</i>	<i>8.2</i>								
Ref. dB	<i>NIA</i>		<i>36</i>				<i>34</i>									



Additional Comments/Sketch
Cal. for weld & austenitic side only.

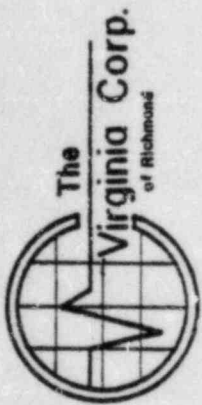
D. Payne ANII 7/7/82



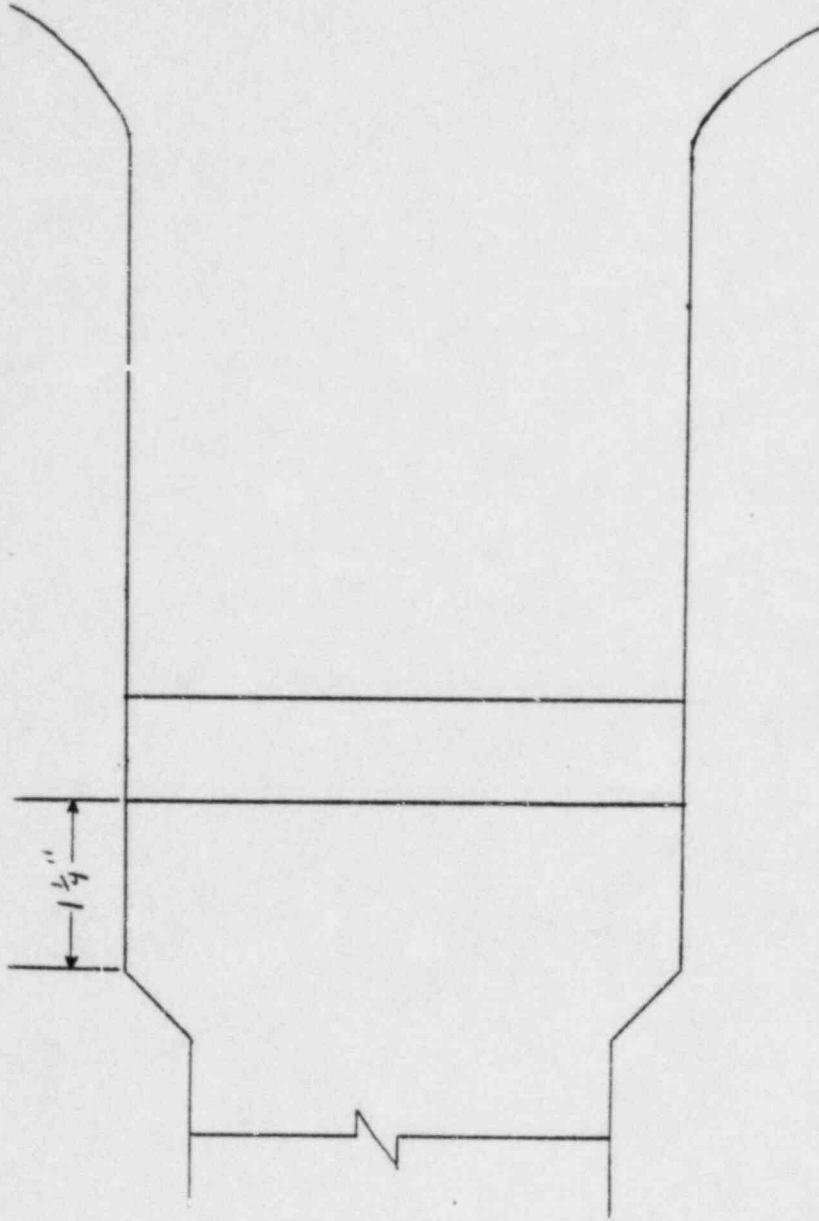
Ultrasonic Examination Report - Continuation Sheet

Customer <i>L.P. & L</i>	Plant <i>WATERFORD</i>	Unit <i>3</i>	Loop/ Zone <i>NA / 26</i>	Iso/Drawing No. <i>ZONE 26 - RCD.2 - 552</i>
Procedure <i>ASME-BP.V-FC.1</i>	Exam Surface <i>OD.</i>	Examiner/Level <i>David J. Johnson III</i>	VCR Supervisor <i>Daniel Jena</i>	Date <i>4/26/82</i>
Component/Piping System <i>Pressurizer Safety Piping</i>	Pipe Size <i>8"</i>	Weld Type <i>Butt</i>	Cal. Block <i>VT-17</i>	Couplant: Type & Batch # <i>Greotace 40 - 8124</i>

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
<i>26-001</i>	<i>N/A</i>	<i>Par</i>	<i>N/A</i>	<i>Yes</i>	<i>N/A</i>	<i>Nozzle configuration</i>	<i>Smooth</i>	<i>Flush</i>	<i>N1</i>	<i>Sat.</i>	<i>See pg. 3</i>
<i>26-002</i>		<i>Par</i>		<i>Yes</i>		<i>Nozzle configuration</i>	<i>Smooth</i>	<i>Flush</i>	<i>N1</i>	<i>Sat.</i>	<i>See pg. 3</i>
<i>26-010</i>		<i>Par</i>		<i>Yes</i>		<i>Nozzle configuration</i>	<i>Smooth</i>	<i>Flush</i>	<i>N1</i>	<i>Sat.</i>	<i>See pg. 3</i>
											<i>Inspection of welds on other side only.</i>



*Illustrative
only*



2 scan limited to 1/4" from toe of weld



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Ultrasonic Examination Report

D. Payne ANII 7/7/82

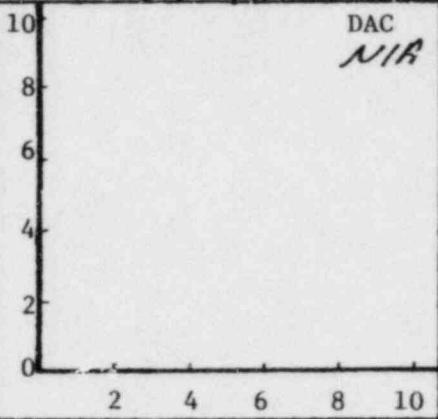
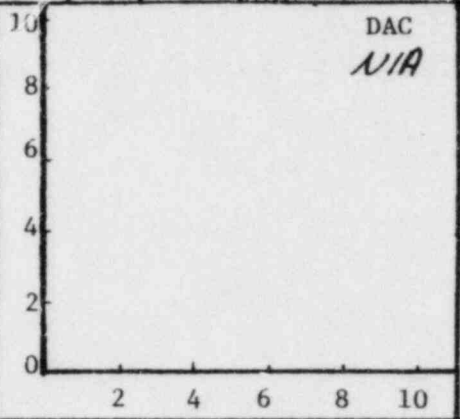
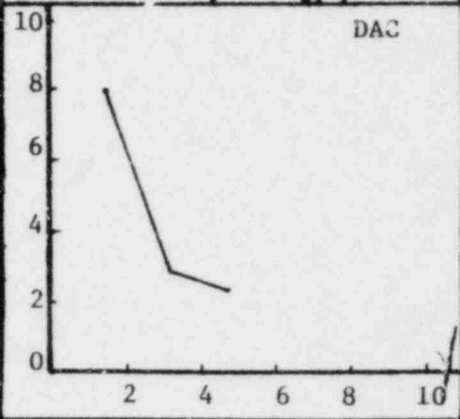
Customer L P & L		Plant Waterford		Unit 3	Loop/Zone NIA/26	Iso/Drawing No. Zone 26 REV. 2502	
Procedure LC 1 ISI 2.8 Rev. 1		Exam Surface O.D.		Examiner/Level David T. Foker III		VCR Supervisor Daniel J. ...	
Component/Piping System Pressurizer Safety Piping		Pipe Size 8"	Weld Type BUTT		Cal. Block UT-17	Date 6/28/82	
				Couplant: Sonotrace		Batch No. 8134	

Continuation Sheet Attached
 Yes No

Field Changes:
Yes No
If Yes, Number **1**

Transducer	0°	45°	60°	Instrument			
S/N	KB2728	NIA	NIA	Mfr.	Sonic	Model	MacBZ
Size	.50"			S/N	03704E	RepRate	1K
Frequency	2.25MHz			Reject	OFF	Filter	OFF
Beam Angle	0°			Damp	Min	Coax	6' Dual
				Freq.	2.0MHz	Video	Nacm

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks						
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°		
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out	
1/4T	80%	1.5	NIA	NIA	NIA	NIA	NIA	NIA	NIA	NIA	NIA	08:00	11:02	NIA	NIA	NIA	NIA
1/2T	30%	3.2															
3/4T	25%	4.5															
Ref. dB	69		NIA				NIA										



Additional Comments/Sketch

D. Byrne ANIE 1/7/82



The
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Ultrasonic Examination Report - Continuation Sheet

Page 2 of 2

Customer LPL	Plant Waterford	Unit 3	Loop/ Zone NA/ 26	Iso/Drawing No. Zone 26 Rev. 2-82
Procedure IS 12.8 Rev. 1 E.G. 1	Exam Surface O.D.	Examiner/Level David Tozoh III	VCR Supervisor Dense	Date 6/28/82
Component/Piping System Pressurizer Safety Piping	Pipe Size 8"	Weld Type Butt	Cal. Block UT-17	Couplant: Type & Batch # Sagox 40 # 8134

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
26-001	Yes	N/A	N/A	N/A	Yes	N/A	Smooth Flush	N/A	Sat.	N/A	
26-006	Yes				Yes		Smooth Flush	N/A	Sat.		
26-010	Yes				Yes		Smooth Flush	N/A	Sat.		



The Virginia Corp.
of Richmond

Ultrasonic Examination Report

By Paul ANEL 7/7/82

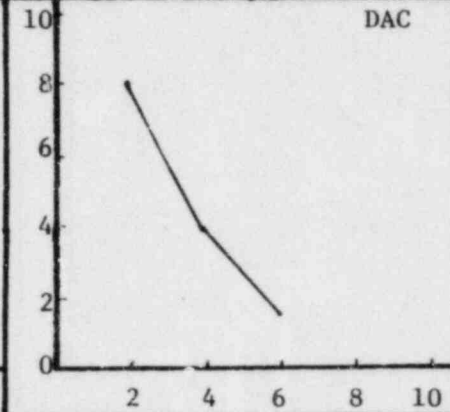
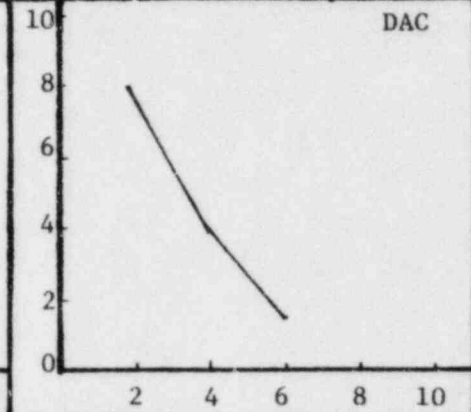
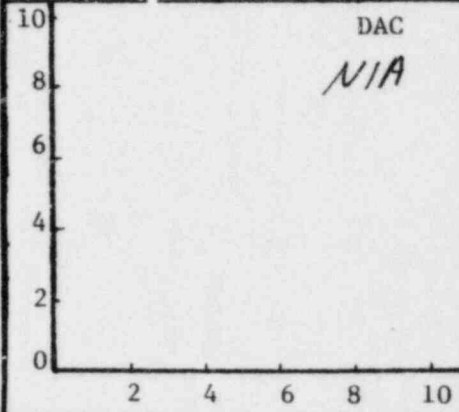
Customer <u>LP&L</u>		Plant <u>Waterford</u>	Unit <u>3</u>	Loop/Zone <u>NIA/26</u>	Iso/Drawing No. <u>Zone 26 Rev. 2 F.C.1</u>
Procedure <u>15128 Rev. 1</u>	Exam Surface <u>Q.D.</u>	Examiner/Level <u>David T. Tolson III</u>		VCR Supervisor <u>Daniel Dina</u>	Date <u>6/28/82</u>
Component/Piping System <u>Pressurizer Safety Piping</u>		Pipe Size <u>8"</u>	Weld Type <u>BUTT</u>	Cal. Block <u>UT-17</u>	Couplant: <u>Sonotrace</u> Type <u>40</u> Batch No. <u>8124</u>

Continuation Sheet Attached
 Yes No

Field Changes:
Yes No
If Yes, Number 1

Transducer	0°	45°	60°	Instrument			
	S/N <u>NIA</u>	<u>NIA</u>	<u>D1103R</u>	Mfr. <u>Sonic</u>	Model <u>MAIKI</u>	RepRate <u>1K</u>	
	Size		<u>.50"</u>	S/N <u>05304E</u>	Filter <u>OFF</u>	Coax <u>6' BNC-MD</u>	
	Frequency <u>2.25MHz</u>		<u>60°</u>	Damp <u>MIA.</u>	Video <u>Norm</u>		

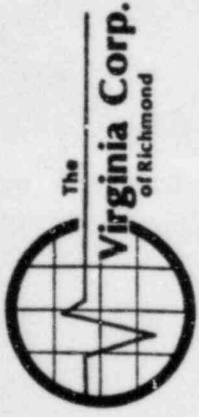
Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks						
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:		Signal Amp.	Sweep	Sound Entry Point To:		0°		45°		60°		
					Scribe Line	50% DAC			Scribe Line	50% DAC	In	Out	In	Out	In	Out	
<u>1/4T</u>	<u>NIA</u>	<u>NIA</u>	<u>80%</u>	<u>2.0</u>	<u>NIA</u>	<u>NIA</u>	<u>80%</u>	<u>2.0</u>	<u>NIA</u>	<u>NIA</u>	<u>NIA</u>	<u>NIA</u>	<u>NIA</u>	<u>NIA</u>	<u>NIA</u>	<u>8:43</u>	<u>11:00</u>
<u>1/2T</u>			<u>40%</u>	<u>4.1</u>			<u>40%</u>	<u>4.1</u>									
<u>3/4T</u>			<u>15%</u>	<u>6.0</u>			<u>15%</u>	<u>6.0</u>									
<u>1T</u>			<u>25%</u>	<u>7.4</u>			<u>25%</u>	<u>7.8</u>									
Ref. dB	<u>NIA</u>		<u>69</u>				<u>69</u>										



Additional Comments/Sketch
Cal. for weld & austenitic side only.

D. Payne ANII 7/7/82

Ultrasonic Examination Report - Continuation Sheet

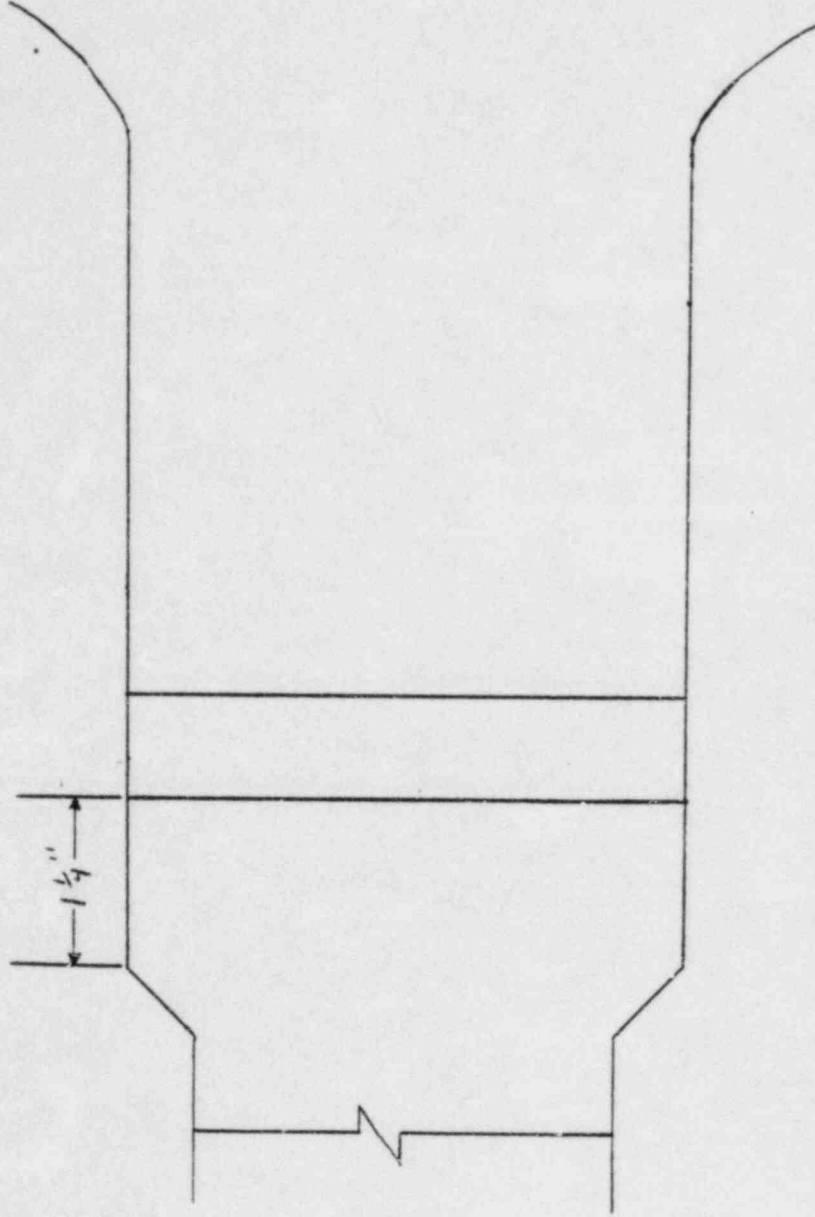


Customer	Plant	Unit	Loop/ Zone	Iso/Drawing No.
L.P.H.	Waterford	3	WAL 26	2082
Procedure	Exam Surface	Examiner/Level	UTR Supervisor	Date
1512 S.W. 11	A.P.	David J. Fisher III	Donald D. Dine	6/28/82
Component/Piping System	Pipe Size	Weld Type	Cal. Block	Couplant: Type & Batch #
Pressure Safety Piping	8"	Butt	UT-17	Sonotone 407# 8124

Weld No.	Base Metal Scan	Scan Direction			Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8		Base Metal	Weld	UT	Visual	
26-001	N/A	Rec	N/A	Yes	Nozzle configuration	Smooth	Flesh	All	SAT.	See pg. 3*
26-002		Rec		Yes	Nozzle configuration	Smooth	Flesh	All	SAT.	See pg. 3*
26-010		Rec		Yes	Nozzle configuration	Smooth	Flesh	All	SAT.	See pg. 3*
										*Examination austenitic side only



*Illustrative
only*



2 scan limited to 1/4" from toe of weld



Customer LP&L	Plant Waterford	Unit 3	Loop/Zone NA 26
Component/Piping System Pressurizer Safety Valve Piping		Examiner/Level Jamie R. Shiver II	Date 12-18-82
Procedure ISI-25 RO FC1	Iso/Drawing No. Zone 26 R2 FC2	VCR Supervisor David L. Folan	Continuation Sheet Attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Equipment

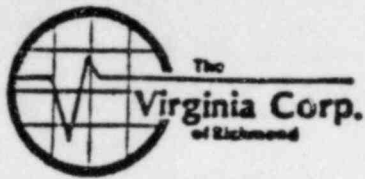
Instrument	Transducer		Calibration
Mfgr. Sonic	Mfgr. KB-Aerotech	Size .25"	Cal. Block UT-141
Model Mark II			Cal. Block N/A
S/N 04405E	Freq. 5 MHz		Range Cal. 1.272"
Reject OFF	Serial No. JD 5017		Calibration Checks
Damp. Min			
Freq. 5	Coax. Cable 6' BNC-PC		In 1140
Rep. Rate 1K			OUT 1352
Filter OFF	Gain 90 dB		N/A
Video Norm			I
Couplant Sonotrace 40 Batch 8124			

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
26002	12:00	.902"	.801"	.825	26-004	12:00	.839"	Flange	.712"
	2:00	.801"	.839"	.839"		2:00	.84"		.712"
	4:00	.827"	.750"	.814"		4:00	.776, .763"		.712"
	6:00	.738"	.687"	.788"		6:00	.776"		.699"
	8:00	.776"	.687"	.788"		8:00	.776"		.699"
↙	10:00	.865"	.750"	.814"	↙	10:00	.788"	↙	.712"
26-003	12:00	.763"	.687"	.687"	26007	12:00	.750"	.738"	.814"
	2:00	.776"	.687"	.661"		2:00	.738"	.738"	.788"
	4:00	.776"	.712"	.687"		4:00	.763"	.725"	.814"
	6:00	.788"	.712"	.661"		6:00	.738"	.725"	.801"
	8:00	.776"	.712"	.839"		8:00	.750"	.738"	.814"
↙	10:00	.763"	.687"	.763"	↙	10:00	.801"	.738"	.788"

Sketch/Identification

N/A



Customer LP & L	Plant WATER FORD	Unit 3	Loop/Zone NA 726
Component/Piping System PRESSURIZER SAFETY VALVE PIPING		Examiner/Level James A. Sliter II	Date 12-18-82
Procedure ISI-25 RD, F.C.1	Iso/Drawing No. ZONE 26 R2EC.2	VCR Supervisor David L. Folan	Continuation Sheet Attached <input checked="" type="checkbox"/> Yes [] No

Equipment

Instrument	Transducer	Calibration
Mfgr. <i>SONIC</i>	Mfgr. <i>KB-AEROTECH</i>	Cal. Block <i>UT-141</i>
Model <i>MARK I</i>	Size <i>.25"</i>	Cal. Block <i>N/A</i>
S/N <i>04405E</i>	Freq. <i>5 MHz</i>	Range Cal. <i>1.272"</i>
Reject <i>OFF</i>	Serial No. <i>JD5017</i>	Calibration Checks
Damp. <i>MIN.</i>	Coax. Cable <i>6' BNC - PC.</i>	
Freq. <i>5</i>	Gain <i>90dB</i>	<i>In 1140</i>
Rep. Rate <i>1k</i>		<i>Out 1352</i>
Filter <i>OFF</i>		<i>N/A</i>
Video <i>Norm</i>		↓
Couplant <i>SONOTRACE 40 #8124</i>		

Examination Results

Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5	Weld Number	Meas. Point	Reading Weld	Reading Scan 2	Reading Scan 5
26-008	12:00	.814"	.712"	.776"	26-011	12:00	.788"	.954"	.814"
26-008	2:00	.788"	.699"	.776"	26-011	2:00	.776"	.979"	.788"
26-008	4:00	.763"	.699"	.738"	26-011	4:00	.801"	.954"	.814"
26-008	6:00	.814"	.699"	.687"	26-011	6:00	.827"	.966"	.877"
26-008	8:00	.788"	.712"	.712"	26-011	8:00	.776"	.966"	.852"
26-008	10:00	.916"	.712"	.738"	26-011	10:00	.776"	.966"	.801"
26-009	12:00	.766"	FLANGE	.699"					
26-009	2:00	.788"		.699"					
26-009	4:00	.801"		.687"					
26-009	6:00	.763"		.687"					
26-009	8:00	.801"		.687"					
26-009	10:00	.766"		.712"					

Sketch/Identification



Ultrasonic Examination Report

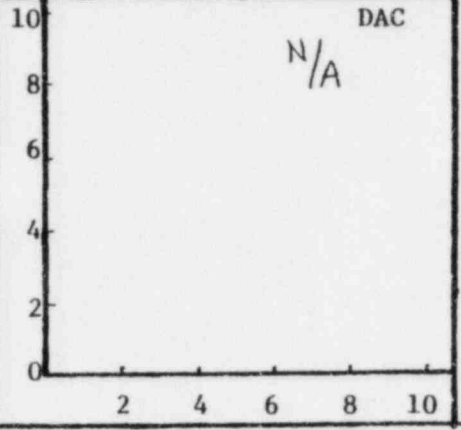
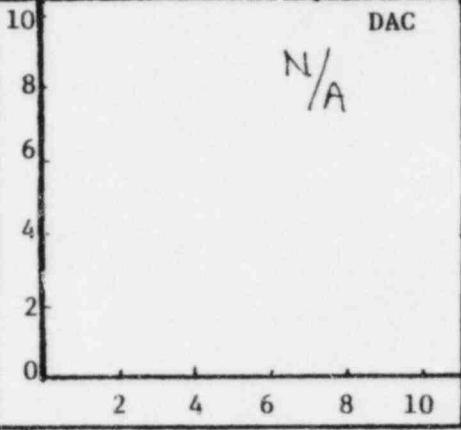
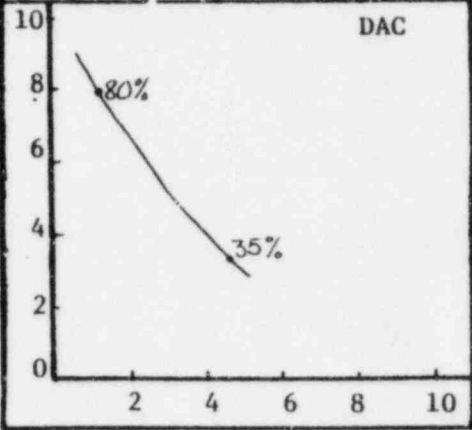
Customer LP&L	Plant WATERFORD	Unit 3	Loop/Zone N/A/26	Iso/Drawing No. ZONE 26 REV. 2 F.C. 2
Procedure ISI-2.7 R.O.F.C.4	Exam Surface O.D.	Examiner/Level Jamie A Slater II	VCR Supervisor David L. Foken	Date 12-18-82
Component/Piping System PRESSURIZER SAFETY VALVE PIPING	Pipe Size 6"	Weld Type BUTT	Cal. Block # UT-191	Couplant: SONOTRACE Type 40 Batch No 8124

Continuation Sheet Attached
 Yes No

Transducer	0°	45°	60°	Instrument			
	S/N	JD5017	N/A	Mfr.	SONIC	Model	MARK I
	Size	25"		S/N	04405E	RepRate	1K
	Frequency	5 MHz		Reject	OFF	Filter	OFF
Beam Angle	0°			Damp	MIN	Coax	6' BNC TO PC
				Freq.	5	Video	NORM

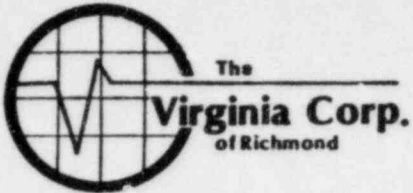
Field Changes:
 Yes No
 If Yes, Number **4**

Calibration 0°			2 & 5 Scan				7 & 8 Scan				Calibration Checks							
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:			Signal Amp.	Sweep	Sound Entry Point To:			0°		45°		60°	
					Scribe Line	50% DAC				Scribe Line	50% DAC		In	Out	In	Out	In	Out
1/4 T	80%	1.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11:40	13:52	N/A	N/A	N/A	N/A
3/4 T	35%	4.4																
1 T	N/A	6.0																
Ref. dB	78 db																	



Additional Comments/Sketch

W.R. Martin, ANEF 1-11-83

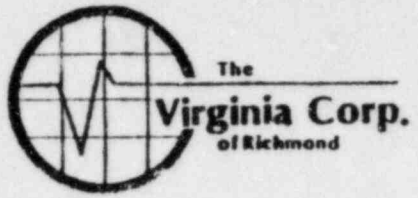


Ultrasonic Examination Report - Continuation Sheet

Customer <i>L-P#L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/ Zone <i>N/A/26</i>	Iso/Drawing No. <i>Zone 26 R2 FL2</i>
Procedure <i>ISI-2.7 RD FL4</i>	Exam Surface <i>OP</i>	Examiner/Level <i>Jamie R. Slater II</i>	VCR Supervisor <i>David L. Folan</i>	Date <i>12-18-82</i>
Component/Piping System <i>Pressurizer Safety Valve Piping</i>	Pipe Size <i>6"</i>	Weld Type <i>Butt</i>	Cal. Block <i>UT-141</i>	Couplant: Type & Batch # <i>Sonotrace 40 / 8124</i>

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
<i>26-002</i>	<i>Yes</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>Par</i>	<i>*</i>	<i>Clean</i>	<i>Ground</i>	<i>NI</i>	<i>Sat.</i>	<i>N/A</i>
<i>26-003</i>	<i>Yes</i>				<i>Par</i>	<i>*</i>	<i>Clean</i>	<i>Ground</i>	<i>NI</i>	<i>Sat.</i>	<i>N/A</i>
<i>26-004</i>	<i>Par</i>				<i>Par</i>	<i>*</i>	<i>Clean</i>	<i>Ground</i>	<i>NI</i>	<i>Sat.</i>	<i>*</i>
<i>26-007</i>	<i>Yes</i>				<i>Par</i>	<i>*</i>	<i>Clean</i>	<i>Ground</i>	<i>NI</i>	<i>Sat.</i>	<i>N/A</i>
<i>26-008</i>	<i>Yes</i>				<i>Par</i>	<i>*</i>	<i>Clean</i>	<i>Ground</i>	<i>NI</i>	<i>Sat.</i>	<i>N/A</i>
<i>26-009</i>	<i>Par</i>				<i>Par</i>	<i>*</i>	<i>Clean</i>	<i>Ground</i>	<i>NI</i>	<i>Sat.</i>	<i>*</i>
<i>26-011</i>	<i>Yes</i>				<i>Par</i>	<i>*</i>	<i>Clean</i>	<i>Ground</i>	<i>NI</i>	<i>Sat.</i>	<i>N/A</i>
											<i>* Loss of Contact 360° Due to Toe of Weld.</i>
											<i>* No Back Reflection Due to Non-Parallel Surfaces.</i>

M.R. Martin, ANTS 1-11-83



Ultrasonic Examination Report

Customer LP&L	Plant WATERFORD	Unit 3	Loop/Zone N/A/26	Iso/Drawing No. ZONE 26 REV. 2 F.C. 2
Procedure ISI-2.7 RO.F.C.A	Exam Surface O.D.	Examiner/Level David L. Foker III	VCR Supervisor David L. Foker	Date 12-18-82
Component/Piping System PRESSURIZER SAFETY VALVE PIPING		Pipe Size 6"	Weld Type BUTT	Cal. Block # UT-141
			Couplant: SONOTRACE	Type 40 Batch No 8124

Continuation Sheet Attached
 Yes No

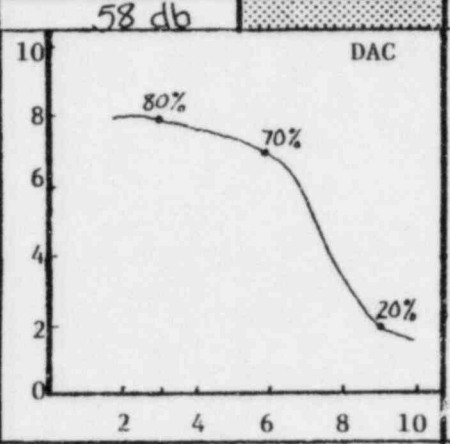
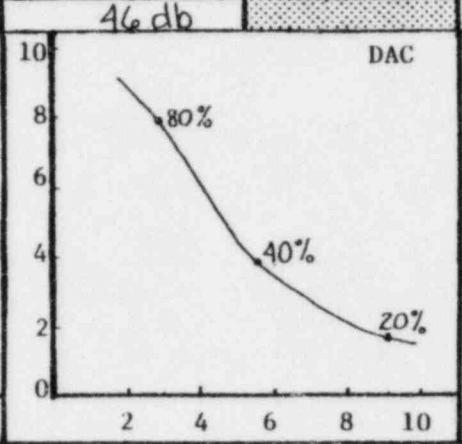
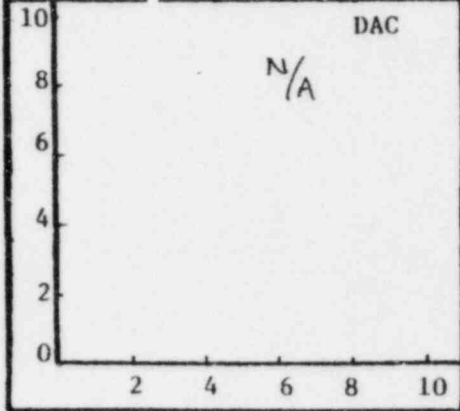
Field Changes:
 Yes No
 If Yes, Number **4**

Transducer S/N Size Frequency Beam Angle	0°	45°	60°	Instrument			
	N/A	L25128	N/A	Mfr.	SONIC	Model	MARK I
		.25"		S/N	05304E	RepRate	1K
		2.25 MHz		Reject	OFF	Filter	OFF
	↓	45°	↓	Damp	MIN	Coax	6' BNC to MD
				Freq.	2 MHz	Viden	NORM

Calibration 0°			2 & 5 Scan						7 & 8 Scan					
Calibration Reflector Location	Signal Amp.	Sweep	Signal Amp.	Sweep	Sound Entry Point To:			Signal Amp.	Sweep	Sound Entry Point To:				
					Scribe Line	50% DAC				Scribe Line	50% DAC			
1T	N/A	N/A	80%	3.0	N/A	N/A	N/A	80%	3.0	N/A	N/A	N/A		
2T			40%	5.8				70%	6.0					
3T			20%	9.0				20%	9.2					

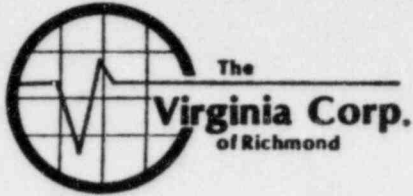
Calibration Checks					
0°		45°		60°	
In	Out	In	Out	In	Out
N/A	N/A	11:30	14:02	N/A	N/A

Ref. dB ↓ ↓



Additional Comments/Sketch **N/A**

W.R. Martin, ANFS 1-11-83



Ultrasonic Examination Report - Continuation Sheet

Page 2 of 2

Customer LP&L	Plant Waterford	Unit 3	Loop/ Zone NA1 26	Iso/Drawing No. Zone 26 REV. 2 FC2
Procedure ISI 2.7 REV. 05.64	Exam Surface OD	Examiner/Level David L. Foker	VCR Supervisor David L. Foker	Date 12/18/82
Component/Piping System Pressurizer Safety	Pipe Size 6"	Weld Type Butt	Cal. Block UT-141	Couplant: Type & Batch # Sonotrace 40 #8124

Weld No.	Base Metal Scan	Scan Direction				Inspection Limitations	Surface Condition		Examination Results		Remarks
		2	5	7 & 8	0		Base Metal	Weld	UT	Visual	
26-002	NA	Yes	Par	Par	NA	Reducer bevel side 360° *	Clean	Ground	NI	Sat	NA
26-003		Yes	Yes	Par		* 360°	Clean	Ground	NI	Sat.	
26-004		Par	Yes	Par		Flange bevel side 360° *	Clean	Ground	NI	Sat.	
26-007		Yes	Par	Par		Reducer bevel side 360° *	Clean	Ground	NI	Sat.	
26-008		Par	Yes	Par		26-009 1 1/2" away on 2 side. *	Clean	Ground	NI	Sat.	
26-009		Par	Par	Par		Flange bevel 2 side 360°, 26-008 1 1/2" away 5 side. *	Clean	Ground	NI	Sat.	
26-011		Par	Par	Par		Reducer bevel 5 side 360°, end cap 2 side 360° *	Clean	Ground	NI	Sat.	
						* loss of contact at toe of weld					



The
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of Richmond

W.R. Martin, AN II 4-15-82

Liquid Penetrant

Examination Report

Customer <i>LP&L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>N/A/27</i>
Procedure <i>ISI 3.1 R.O.F.C. 2</i>	Examiner/Level <i>Nary Longenecker II / Robert Drentel I</i>	Date <i>4-14-82</i>	
Component/Piping System <i>Pressurizer aux. spray</i>	ISO Drawing No. <i>Zone 27 R. 2</i>	VCR Supervisor <i>Daniel Jones</i>	

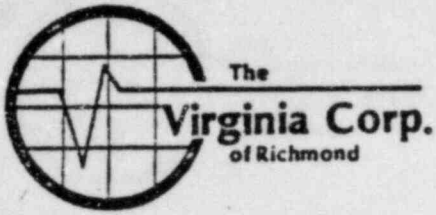
	Manufacturer	Type	Batch No.
Penetrant	<i>Sherwin</i>	<i>Dubl-check</i>	<i>47L015</i>
Developer	<i>sherwin</i>	<i>Dubl-check</i>	<i>129F6</i>
Remover	<i>Sherwin</i>	<i>Dubl-check</i>	<i>112C4</i>

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>27-002</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-003</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-004</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-005</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-008</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-015</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-017</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-018</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-019</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-020</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-021</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-022</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-023</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-024</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-025</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-026</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-027</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-030</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-037</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-038</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-039</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-040</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>27-041</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



Liquid Penetrant ^{4/22/82}
D. Payne ANII
Examination Report

Customer LP+L		Plant Waterford	Unit 3	Loop/Zone N/A/27	
Procedure ISI 3.1 R.O F.C. 2		Examiner/Level Mary Longenecker II		Date 4-15-82	
Component/Piping System Pressurizer aux. spray		ISO Drawing No. Zone 27 R. 2	VCR Supervisor Daniel Dine		
	Manufacturer	Type	Batch No.		
Penetrant	Sherwin	Dubl-check	47L 015		
Developer	Sherwin	Dubl-check	129F6		
Remover	sherwin	Dubl-check	112C4		
Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
27-095		✓		✓	
27-096		✓		✓	
27-097		✓		✓	
27-098		✓		✓	



Liquid Penetrant
D. Payne ANZI 4/22/82
 Examination Report

Customer <i>LP+L</i>		Plant <i>Waterford</i>		Unit <i>3</i>		Loop/Zone <i>N/A / 27</i>			
Procedure <i>ISI 2.1 R.O.F.C.2</i>		Examiner/Level <i>Richard N. De... II</i>		VCR Supervisor <i>[Signature]</i>		Date <i>4-17-82</i>			
Component/Piping System <i>Pressurizer aux. spray</i>		ISO Drawing No. <i>Zone 27 R.O.F.C.O</i>							
Manufacturer		Type		Batch No.					
Penetrant		<i>Sherwin</i>		<i>Dubl-check</i>					
Developer		<i>Sherwin</i>		<i>Dubl-check</i>					
Remover		<i>Sherwin</i>		<i>Dubl-check</i>					
Weld Number	Comments	PT Results		VT Results					
		NRI	RI	SAT.	UNSAT.				
<i>27-049</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					
<i>27-050</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					
<i>27-051</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					
<i>27-052</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					
<i>27-053</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					
<i>27-054</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					
<i>27-055</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					



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Liquid Penetrant
D. Payne ANII 5/7/82
Examination Report

Customer LP&L		Plant Waterford		Unit 3		Loop/Zone N/A/27	
Procedure ISI 3.1 R.O.F.C.2		Examiner/Level Robert J Overstreet II				Date 5-6-82	
Component/Piping System Pressurizer aux. spray		ISO Drawing No. Zone 27 R.2		VGR Supervisor Daniel Jones			
	Manufacturer	Type	Batch No.				
Penetrant	Sherwin	Dubl-Check	476015				
Developer	Sherwin	Dubl-Check	139F6				
Remover	Sherwin	Dubl-Check	112C4				
Weld Number	Comments	PT Results		VT Results			
		NRI	RI	SAT.	UNSAT.		
27-043		✓		✓			
27-044		✓		✓			



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Liquid Penetrant

D. Payne ANII 5/26/82
Examination Report

Customer <i>LP&L</i>	Plant <i>WATERFORD</i>	Unit <i>3</i>	Loop/Zone <i>27</i>		
Procedure <i>ISI 3.1 REV. 0, F.C. 2</i>	Examiner/Level <i>JB Quinn J Level II</i>		Date <i>5-24-82</i>		
Component/Piping System <i>PRESSURIZER AUX. SPRAY</i>	ISO Drawing No. <i>ZONE 27 REV. 2</i>		VCR Supervisor <i>Daniel Jones</i>		
	Manufacturer	Type	Batch No.		
Penetrant	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>47L-015</i>		
Developer	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>129 F6</i>		
Remover	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>112-C4</i>		
Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>27-006</i>		✓		✓	
<i>27-007</i>		✓		✓	
<i>27-009</i>		✓		✓	



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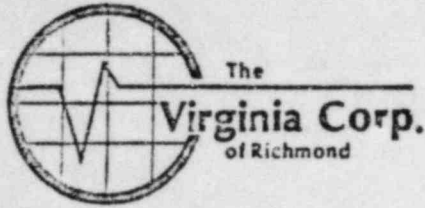
Liquid Penetrant

R. Payne ANII 5/27/82
Examination Report

Customer LP & L	Plant Waterford	Unit 3	Loop/Zone N/A 27
Procedure ISI 3.1 R.O F.C 2	Examiner/Level Robert W Anderson II		Date 5-25-82
Component/Piping System Pressurizer Aux. Spray	ISO Drawing No. Zone 27 R.2 F.C. O	VCR Supervisor Daniel Jensen	

	Manufacturer	Type	Batch No.
Penetrant	Sherwin	Dubl-Check	47L-015
Developer	Sherwin	Dubl-Check	129-F6
Remover	Sherwin	Dubl-Check	112-C4

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
27-010		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
27-011		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
27-012		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
27-013		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



Liquid Penetrant
D. Payne ANZI ^{5/26/82}
Examination Report

Customer LPC L	Plant WATERFORD	Unit 3	Loop/Zone 27
Procedure ISI 3.1, REV. D, FC-2	Examiner/Level T.B. SWANN I Level II	Date 5-25-82	
Component/Piping System PRESSURIZER AUX. SPRAY	ISO Drawing No. CONE 27, REV 2	ICR Supervisor <i>Daniel Jones</i>	

	Manufacturer	Type	Batch No.
Penetrant	SHERWIN	DUBL-CHEK	47 L 015
Developer	SHERWIN	DUBL-CHEK	129 F 6
Remover	SHERWIN	DUBL-CHEK	112 C 4

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
27-016		✓		✓	
27-027		✓		✓	
27-028		✓		✓	
27-031		✓		✓	
27-032		✓		✓	
27-033		✓		✓	
27-034		✓		✓	
27-035		✓		✓	



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Liquid Penetrant
D. Payne ANII 7/9/82
Examination Report

Customer <i>LP46</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>NIAI 27</i>
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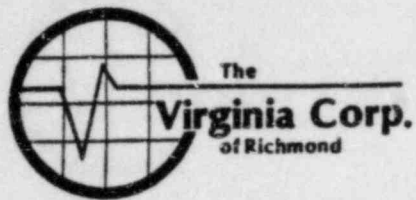
Procedure <i>ISI 3.1 Rev. 0 F.C. 2</i>	Examiner/Level <i>David T. Fokem III</i>	Date <i>7/7/82</i>
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Component/Piping System <i>Pressurizer Aux. Spray</i>	ISO Drawing No. <i>Zone 27 Rev. 2 F.C. 1</i>	VCR Supervisor <i>[Signature]</i>
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	Manufacturer	Type	Batch No.
Penetrant	<i>Sherwin Inc.</i>	<i>Dubl-Check</i>	<i>474-015</i>
Developer	<i>Sherwin Inc.</i>	<i>Dubl-Check</i>	<i>129 F6</i>
Remover	<i>Sherwin Inc.</i>	<i>Dubl-Check</i>	<i>225 B4</i>

Weld/Item Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.

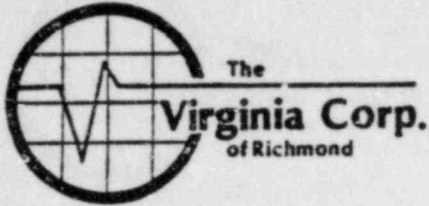
<i>27-001</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



Liquid Penetrant

M.R. Martin, ANSI 9/20/82
Examination Report

Customer <i>LP&L</i>		Plant <i>WATERFORD</i>		Unit <i>3</i>		Loop / Zone <i>NA 27</i>	
Procedure <i>ISI, 3.1 R-O, F.C.4</i>		Examiner/Level <i>Navy Longenecker II</i>				Date <i>9-16-82</i>	
Component/Piping System <i>PRESSURIZER AUX. SPRAY</i>		ISO Drawing No. <i>ZONE 27 R-2, F.C.1</i>		VGR Supervisor <i>Daniel Jensen</i>			
	Manufacturer	Type	Batch No.				
Penetrant	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>47L-015</i>				
Developer	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>129-F6</i>				
Remover	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>110-H4</i>				
Weld/Item Number	Comments			PT Results		VT Results	
				NRI	RI	SAT.	UNSAT.
<i>27-023</i>				<input checked="checked" type="checkbox"/>		<input checked="checked" type="checkbox"/>	
<i>27-022</i>				<input checked="checked" type="checkbox"/>		<input checked="checked" type="checkbox"/>	
	<i>REEXAMINED DUE TO STAMP HAD BEEN REMOVED.</i>						



Liquid Penetrant
Dan Payne ANII 3/25/82
 Examination Report

Customer <i>LP AND L</i>	Plant <i>WATERFOR.</i>	Unit <i>3</i>	Loop/Zone <i>NA/28</i>		
Procedure <i>ISI 3.1, REVO, F.C. 2</i>	Examiner/Level <i>CR 8/10/11 II</i>		Date <i>3-23-82</i>		
Component/Piping System <i>AUX SPRAY HEAT EXCHANGER</i>	ISO Drawing No. <i>ZONE 28, REV 2</i>	VCR Supervisor <i>Daniel Jensen</i>			
	Manufacturer	Type	Batch No.		
Penetrant	<i>SHERWIN INC.</i>	<i>DUBL-CHEK</i>	<i>47L015</i>		
Developer	<i>SHERWIN INC.</i>	<i>DUBL-CHEK</i>	<i>129 FG</i>		
Remover	<i>SHERWIN INC.</i>	<i>DUBL-CHEK</i>	<i>112CA 1528 112FH 4HRM</i>		
Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>28-040</i>		✓		✓	
<i>28-041</i>		✓		✓	
<i>28-043</i>		✓		✓	
<i>28-044</i>		✓		✓	
<i>28-045</i>		✓		✓	
<i>28-047</i>		✓		✓	
<i>28-048</i>		✓		✓	
<i>28-053</i>		✓		✓	
<i>28-054</i>		✓		✓	
<i>28-060</i>		✓		✓	
<i>28-063</i>		✓		✓	



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Liquid Penetrant

Don Payne ANII 3/31/82
Examination Report

Customer <i>LP AND L</i>	Plant <i>WATER FORD</i>	Unit <i>3</i>	Loop/Zone <i>NA/28</i>
Procedure <i>ISI 3.1, REVO, F.C. 2</i>	Examiner/Level <i>CR Stanbitt</i>	Date <i>3-30-82</i>	
Component/Piping System <i>CHARGE AUX SPRAY HEAT EXCHANGER</i>	ISO Drawing No. <i>ZONE 28, REV 2</i>	VCR Supervisor <i>Daniel Jensen</i>	

	Manufacturer	Type	Batch No.
Penetrant	<i>SHERWIN INC</i>	<i>DUBL-CHEK</i>	<i>476015</i>
Developer	<i>SHERWIN INC</i>	<i>DUBL-CHEK</i>	<i>129 F6</i>
Remover	<i>SHERWIN INC</i>	<i>DUBL-CHEK</i>	<i>112C4</i>

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>28-047</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>28-049</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>28-052</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>28-054</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>28-057</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>28-061</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



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Liquid Penetrant
D. Payne ANII 4/22/82
Examination Report

Customer LP+L		Plant Waterford		Unit 3	Loop/Zone 4/A / 98		
Procedure ISI 3.1 R.O F.C. 2		Examiner/Level <i>Richard W. 2-1 II Robert M. Westwood E</i>			Date 4-20-82		
Component/Piping System <i>dur. spray lines w/ Regenerative Heat exchanger ENCLOSURE.</i>		ISO Drawing No. Zone 28 R. 2 F.C. 1		NCR Supervisor <i>Ronnie Jones</i>			
	Manufacturer	Type	Batch No.				
Penetrant	Sherwin	Dubl-Check	476215				
Developer	Sherwin	Dubl-Check	129F6				
Remover	Sherwin	Dubl-Check	112CY				
Weld Number	Comments			PT Results		VT Results	
				NRI	RI	SAT.	UNSAT.
28-005				✓		✓	
28-007				✓		✓	
28-009				✓		✓	
28-010				✓		✓	
28-011				✓		✓	
28-074				✓		✓	
28-075				✓		✓	



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Liquid Penetrant
D. Payne ANII 4/22/82
 Examination Report

Customer LP&L	Plant Waterford	Unit 3	Loop/Zone N/A / 28
Procedure ISI 3.1 RO FC2	Examiner/Level <i>Richard H. De...</i>	Date 4-21-82	
Component/Piping System Charging, Aux. spray and letdown lines in Regenerative Heat exch. enclosure	ISO Drawing No. Zone 28 R2 FCX	VCR Supervisor <i>Daniel Jones</i>	

	Manufacturer	Type	Batch No.	
Penetrant	Sherwin	Dubl-Chek	476015	
Developer	Sherwin	Dubl-Chek	189 F6	
Remover	Sherwin	Dubl-Chek	11254	

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
28-001		✓		✓	
28-002		✓		✓	
28-004		✓		✓	
28-008		✓		✓	
28-022		✓		✓	
28-023		✓		✓	
28-024		✓		✓	
28-025		✓		✓	
28-026		✓		✓	
28-027		✓		✓	
28-065		✓		✓	
28-066		✓		✓	
28-067		✓		✓	
28-069		✓		✓	
28-071		✓		✓	
28-072		✓		✓	



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Liquid Penetrant
D. Payne ANII 4/29/82
Examination Report

Customer LP4L	Plant Waterford	Unit B	Loop/Zone N/A / 03
Procedure ISI 3.1 R 0 FC 2	Examiner/Level Richard DeL... II	Date 4-24-82	
Component/Piping System <small>charging, aux spray and letdown lines in Reg. heat exchanger enclosure</small>	ISO Drawing No. 28 R 2 FC 1	VCR Supervisor Daniel Jones	

	Manufacturer	Type	Batch No.
Penetrant	Sherwin	Dubl-Chek	476015
Developer	Sherwin	Dubl-Chek	129 F 6
Remover	Sherwin	Dubl-Chek	11204

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
28-077		✓		✓	
28-078		✓		✓	
28-081		✓		✓	
28-082		✓		✓	



Liquid Penetrant
D. Payne ANEI 4/27/82
 Examination Report

Customer <i>LD+L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>A/A / 28</i>
Procedure <i>ISI 3.1 R.O. F.C. 2</i>	Examiner/Level <i>Robert J. Chestnut I</i>	Date <i>4-26-82</i>	
Component/Piping System <i>charging, aux. spray and tie-down lines in Reg. Heat exch. enclosure</i>	ISO Drawing No. <i>Zone 28 R.O. F.C. 1</i>	VCR Supervisor <i>Manuel Jensen</i>	

	Manufacturer	Type	Batch No.
Penetrant	<i>Sherwin</i>	<i>Dubl-Chek</i>	<i>474015</i>
Developer	<i>Sherwin</i>	<i>Dubl-Chek</i>	<i>12916</i>
Remover	<i>Sherwin</i>	<i>Dubl-Chek</i>	<i>11204</i>

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>28-012</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>28-013</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>28-014</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>28-016</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>28-020</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



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Liquid Penetrant
D. Payne ANII 4/30/82
Examination Report

Customer LP+L		Plant Waterford	Unit B	Loop/Zone A/H / 09	
Procedure ISI 31 R.O F.C.2		Examiner/Level <i>Daniel Jensen IV III</i>		Date 4-29-82	
Component/Piping System charging Aux. Spray Letdown lines in Reg. Heat Exchanger enclosure		ISO Drawing No. Zone 28 R.O F.C.1	VCR Supervisor <i>Daniel Jensen</i>		
	Manufacturer	Type	Batch No.		
Penetrant	Sherwin	Dubl-Chek	47L015		
Developer	Sherwin	Dubl-Chek	129F6		
Remover	Sherwin	Dubl-Chek	112C4		
Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
28-003		✓		✓	
28-019		✓		✓	
28-028		✓		✓	
28-029		✓		✓	
28-030		✓		✓	
28-032		✓		✓	
28-033		✓		✓	
28-035		✓		✓	
28-036		✓		✓	

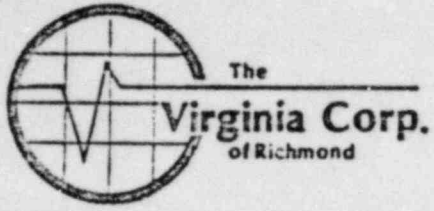


The Virginia Corp. of Richmond

Liquid Penetrant

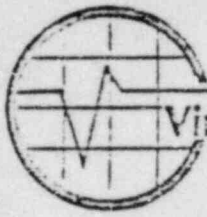
D. Payne ANII 5/26/82
Examination Report

Customer LP&L	Plant WATERFORD	Unit 3	Loop/Zone /28		
Procedure ISTI 3.1 REV'D, FC-2	Examiner/Level JB Evans Level II	Date 5-25-82			
Component/Piping System CHANGING, AUX, SPRAY/LETDOWN ZONE 28, REV'D	ISO Drawing No.	NDE Supervisor Daniel Jones			
	Manufacturer	Type	Batch No.		
Penetrant	SHERWIN	DUBL-CHEK	47L015		
Developer	SHERWIN	DUBL-CHEK	129 F6		
Remover	SHERWIN	DUBL-CHEK	112 C4		
Weld Number	Comments	PI Results		VI Results	
		NRI	RI	SAT.	UNSAT.
28-038		✓		✓	
28-042		✓		✓	
28-050		✓		✓	
28-055		✓		✓	



Liquid Penetrant
D. Payne ANII 5/27/82
Examination Report

Customer <i>LP + L</i>	Plant <i>WATERFORD</i>	Unit <i>3</i>	Loop/Zone <i>11A/28</i>		
Procedure <i>ISI 3.1 REV-0 EC-2</i>	Examiner/Level <i>Robert W Anderson II</i>	Date <i>5-26-82</i>			
Component/Piping System <i>CHARGING, AUX SPRAY & LETDOWN LINES IN REGENERATIVE HEAT EXCHANGER ENCLOSURE</i>	ISO Drawing No. <i>ZONE 28 REV-2 FC-1</i>	VCR Supervisor <i>Wanilo Jones</i>			
	Manufacturer	Type	Batch No.		
Penetrant	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>47L-015</i>		
Developer	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>129-F6</i>		
Remover	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>112-C4</i>		
Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>28-076</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>28-079</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



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R. David ANIL 5/28/82
Examination Report

Customer <i>LP&L</i>	Plant <i>WATERFORD</i>	Unit <i>3</i>	Loop/Zone <i>28</i>
Procedure <i>SSI 3.1, REV. 0 F.C. 2</i>	Examiner/Level <i>J. B. ELLIOTT II</i>		Date <i>5-27-82</i>
Component/Piping System <i>CHARGING AUX SPRAY & LET DOWN LINES</i>	ISO Drawing No. <i>ZONE 28, REV. #2 FC-1</i>	VCR Supervisor <i>David Jones</i>	

	Manufacturer	Type	Batch No.	PT Results		VT Results	
				NRI	RI	SAT.	UNSAT.
Penetrant	SHERWIN	DUBL/CHEK DP-51	476015				
Developer	SHERWIN	DUBL/CHEK D-100	129F6				
Remover	SHERWIN	DUBL/CHEK DR60	112C4				
Weld Number	Comments			NRI	RI	SAT.	UNSAT.
<i>28-017</i>				✓		✓	



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Liquid Penetrant
D. Payne ANEI 6/28/82
Examination Report

Customer <i>L. P. & L.</i>	Plant WATERFORD	Unit 3	Loop/Zone NA / 28
Procedure <i>ISI 3.1 - Rev. 0 - FC. 2</i>	Examiner/Level <i>Eliot W Anderson II</i>	Date <i>6/25/82</i>	
Component/Piping System <i>charging Aux. Spray & letdown lines</i>	ISO Drawing No. <i>zone-28 - Rev. 2 - FC. 2</i>	VER Supervisor <i>Kenal Jones</i>	

	Manufacturer	Type	Batch No.
Penetrant	SHERWIN	DUBL-CHEK	47L-015
Developer	SHERWIN	DUBL-CHEK	129-F6
Remover	SHERWIN	DUBL-CHEK	225-B4

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>28-068</i>		<i>✓</i>		<i>✓</i>	



The Virginia Corp.
of Richmond

Liquid Penetrant
D. Payne ANZI 7/9/82
Examination Report

Customer <i>L.P. & L.</i>	Plant <i>Wisterford</i>	Unit <i>3</i>	Loop/Zone <i>28</i>		
Procedure <i>ISI-3.1, Rev 0, F.C. 2</i>	Examiner/Level <i>Mary A. Lofgren WIT</i>	Date <i>7-7-82</i>			
Component/Piping System <i>Charg. Aux. Spray & Letdown Lines in RHE's Encl.</i>	ISO Drawing No. <i>Zone 28, Rev. 2, F.C. 2</i>	VCR Supervisor <i>Manuel Jones</i>			
Manufacturer	Type	Batch No.			
Penetrant <i>Sherwin Inc.</i>	<i>Dubl - Chek</i>	<i>47L-015</i>			
Developer <i>Sherwin Inc.</i>	<i>Dubl - Chek</i>	<i>129 F6</i>			
Remover <i>Sherwin Inc.</i>	<i>Dubl - Chek</i>	<i>225 B4</i>			
Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>28-058</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>28-062</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

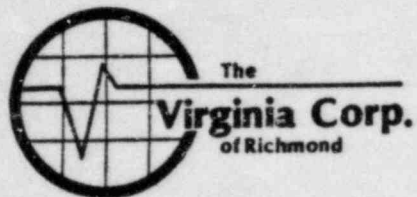


The
Virginia Corp.
of Richmond

Liquid Penetrant

D. Payne ANIT 7/9/82
Examination Report

Customer <i>LP&L</i>	Plant <i>Waterford</i>	Unit <i>III</i>	Loop/Zone <i>NA/28R2FC3</i>		
Procedure <i>151 3.1 Rev 0 FC 2</i>	Examiner/Level <i>David W. Clemente Sr. LV 11</i>		Date <i>July 8, 1982</i>		
Component/Piping System <i>Charging, Aux. spray & Letdown Lines in Regenerative Heat Exchanger Enclosure</i>	ISO Drawing No. <i>ZONE 28 Rev 2 FC 3</i>		VCR Supervisor <i>Daniel Dene</i>		
	Manufacturer	Type	Batch No.		
Penetrant	<i>Sherwin</i>	<i>Dub check</i>	<i>476015</i>		
Developer	<i>Sherwin</i>	<i>Dub check</i>	<i>129F6</i>		
Remover	<i>Sherwin</i>	<i>Dub check</i>	<i>225B4</i>		
Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>28-087</i>		✓		✓	
<i>28-085</i>		✓		✓	



Liquid Penetrant
Mr. R. Martin, ANIS 9/20/82
Examination Report

Customer	LP & L	Plant	WATERFORD	Unit	3	Loop / Zone	NA 28
Procedure	ISI 3.1 R-0, F.C. 4	Examiner/Level	Gary Longenecker II			Date	9-16-82

Component/Piping System	CHARGING, AUX. SPRAY & LETDOWN LINES IN RHEX.	ISO Drawing No.	ZONE 28 R-2, FC.3	VCR Supervisor	Daniel Jensen		
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	Manufacturer	Type	Batch No.
Penetrant	SHERWIN	DUBL-CHEK	47L-015
Developer	SHERWIN	DUBL-CHEK	129-F6
Remover	SHERWIN	DUBL-CHEK	110-H4

Weld/Item Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
28-020		✓		✓	
28-036		✓		✓	
28-057		✓		✓	
28-063		✓		✓	
28-071		✓		✓	
	Re-examined due to E stamp had been removed				



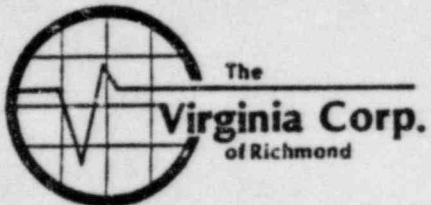
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Liquid Penetrant
D. Payne ANIT 6/24/82
 Examination Report

Customer <i>L. P. & L.</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>2A/29</i>
Procedure <i>ISI 3.1-Rev.0-FC.2</i>	Examiner/Level <i>Robert W Anderson II</i>	Date <i>6/22/82</i>	
Component/Piping System <i>charging Connection Loop 2A</i>	ISO Drawing No. <i>zone 29-Rev.2-FC.0</i>	VCR Supervisor <i>Daniel Jensen</i>	

	Manufacturer	Type	Batch No.
Penetrant	Sherwin	Dubl-chek	47L-015
Developer	Sherwin	Dubl-chek	129-F6
Remover	Sherwin	Dubl-chek	225-B4

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>29-016</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>29-017</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



Liquid Penetrant Examination Report

Don Payne ANII 3/8/82

Customer L P & L	Plant WATERFORD	Unit 3	Loop/Zone 2B / 30
Procedure ISI - 3.1 PC - 2	Examiner/Level Michael N Blum II	Date 3-6-82	
Component/Piping System LETDOWN LINE	ISO Drawing No. ZONE 30 REV 2	VCR Supervisor <i>Daniel Jensen</i>	

	Manufacturer	Type	Batch No.
Penetrant	SHERWIN	DUBL. CHEK	47L-015
Developer	SHERWIN	DUBL. CHEK	129 F6
Remover	SHERWIN	DUBL. CHEK	112 C4

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
30-001		✓		✓	
30-002		✓		✓	
30-003		✓		✓	
30-004		✓		✓	
30-005		✓		✓	
30-006		✓		✓	
30-007		✓		✓	
30-008		✓		✓	
30-009		✓		✓	
30-010		✓		✓	
30-011		✓		✓	
30-013		✓		✓	
30-014		✓		✓	
30-016		✓		✓	
30-017		✓		✓	
30-018		✓		✓	
30-019		✓		✓	
30-020		✓		✓	
30-021		✓		✓	
30-022		✓		✓	



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Liquid Penetrant
D. Payne ANII *4/3/82*
Examination Report

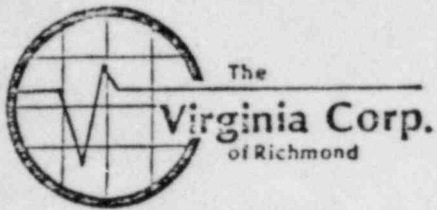
Customer <i>LP&L</i>	Plant <i>Waterford</i>	Unit <i>111</i>	Loop / Zone <i>18/31</i>
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Procedure <i>ISI 3.1 Rsv 0 FC2</i>	Examiner/Level <i>Daniel W. Clements & Lrv 11</i>	Date <i>June 2, 1982</i>
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Component/Piping System <i>Drainage Loop 13 Cold Leg</i>	ISO Drawing No. <i>20N2 31 Rsv 2 FC0</i>	VGR Supervisor <i>Daniel J. Jones</i>
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	Manufacturer	Type	Batch No.
Penetrant	<i>Sherwin</i>	<i>Dublechk</i>	<i>472015</i>
Developer	<i>Sherwin</i>	<i>Dublechk</i>	<i>129FG</i>
Remover	<i>Sherwin</i>	<i>Dublechk</i>	<i>112CY</i>

Weld/Item Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>31-001</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>31-002</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>31-003</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>31-004</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>31-005</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>31-006</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>31-008</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<i>31-009</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

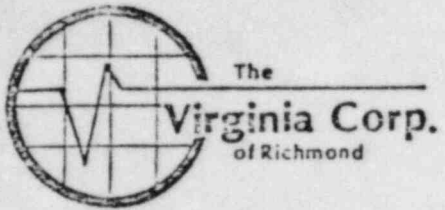


Liquid Penetrant
D. Payne ANII 4/29/82
Examination Report

Customer <i>LP+L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>1/32</i>
Procedure <i>ISI 3.1, Rev 0, F.C.2</i>	Examiner/Level <i>Daniel Jensen Lu III</i>	Date <i>4-28-82</i>	
Component/Piping System <i>Hot Leg Drain</i>	ISO Drawing No. <i>Zone 32, Rev 2</i>	VCR Supervisor <i>Daniel Jensen</i>	

	Manufacturer	Type	Batch No.
Penetrant	Dubl-Chek	DP-51	47L-015
Developer	Dubl-Chek	D-100	129-F6
Remover	Dubl-Chek	DR-60	112-CA 4/29

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
32-001		✓		✓	
32-002		✓		✓	
32-003		✓		✓	
32-004		✓		✓	
32-005		✓		✓	
32-006		✓		✓	
32-008		✓		✓	
32-009		✓		✓	
32-011		✓		✓	
32-012		✓		✓	



Liquid Penetrant
D. Payne ANII 4/29/82
 Examination Report

Customer <i>L P & L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>1A/33</i>
Procedure <i>ISI 3.1 Rev 0, F.C.2</i>	Examiner/Level <i>Daniel Jensen LIII</i>	Date <i>4-28-82</i>	
Component/Piping System <i>Drainline for Cold leg</i>	ISO Drawing No. <i>Zone 33, Rev 2</i>	VCR Supervisor <i>Daniel Jensen</i>	

	Manufacturer	Type	Batch No.
Penetrant	<i>Dubl-chek</i>	<i>DP-51</i>	<i>47L-015</i>
Developer	<i>Dubl-Chek</i>	<i>D-100</i>	<i>129 F6</i>
Remover	<i>Dubl-Chek</i>	<i>DR-60</i>	<i>112 CA</i>

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>33-001</i>		✓		✓	
<i>33-002</i>		✓		✓	
<i>33-003</i>		✓		✓	
<i>33-004</i>		✓		✓	
<i>33-005</i>		✓		✓	
<i>33-006</i>		✓		✓	
<i>33-008</i>		✓		✓	
<i>33-009</i>		✓		✓	



The Virginia Corp.
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Liquid Penetrant

Don Payne ANII 3/1/82

Examination Report

Customer: LP+L Plant: Waterford Unit: 3 Loop/Zone: 1A/34

Procedure: ISI 3.1 RD F.C. 2 Examiner/Level: Janie R. Litter II / Robert / Overstreet I Date: 2-26-82

Component/Piping System: Charging Connection ISO Drawing No.: Zone 34 R2 VCB Supervisor: Daniel Jensen

	Manufacturer	Type	Batch No.	
Penetrant	Sherwin	Dubl-check	474915	
Developer	Sherwin	Dubl-check	129 F6	
Remover	Sherwin	Dubl-check	11204	

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
34-005		✓		✓	
34-006		✓		✓	
34-007		✓		✓	
34-008		✓		✓	
34-009		✓		✓	



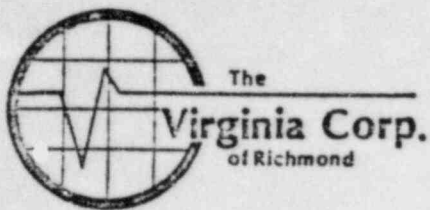
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of Richmond

Liquid Penetrant
Sam Payne ANII 3/1/82
Examination Report

Customer LP & L	Plant WATERFORD	Unit 3	Loop/Zone 1 39
Procedure I.S.I. 3.1 R.O.F.C.-2	Examiner/Level Sary Longenecker	Date 2-26-82	
Component/Piping System CHARGING CONNECTION	ISO Drawing No. 34 R-2	VCR Supervisor Donal Johnson	

	Manufacturer	Type	Batch No.
Penetrant	SHERWIN	DUBL-CHEK	47L-015
Developer	SHERWIN	DUBL-CHEK	129-F6
Remover	SHERWIN	DUBL-CHEK	112-C9

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
34-018		✓		✓	
34-019		✓		✓	
34-020		✓		✓	
34-021		✓		✓	
34-022		✓		✓	
34-023		✓		✓	
34-024		✓		✓	
34-025		✓		✓	
34-026		✓		✓	
34-027		✓		✓	
34-028		✓		✓	
34-029		✓		✓	
34-030		✓		✓	
34-031		✓		✓	



Liquid Penetrant

Don Payne ANII 3/1/82
Examination Report

Customer LP&L		Plant Waterford		Unit 3		Loop/Zone 1/34	
Procedure ISI-31 RO FC 2		Examiner/Level Jamie R. Blitzer II				Date 2-27-82	
Component/Piping System Charging Connection		ISO Drawing No. ZONE-34 R2		VCR Supervisor <i>Manuel Penon</i>			
		Manufacturer	Type	Batch No.			
Penetrant		Sherwin	Dubl-Chek	47L-015			
Developer		Sherwin	Dubl-Chek	129F6			
Remover		Sherwin	Dubl-Chek	112CA			
Weld Number	Comments	PT Results		VT Results			
		NRI	RI	SAT.	UNSAT.		
34-001		✓		✓			
34-002		✓		✓			
34-003		✓		✓			
34-004		✓		✓			
34-014		✓		✓			



The
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Liquid Penetrant
Don Payne ANII 3/9/82
Examination Report

Customer <i>LP 16</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>1/34</i>
Procedure <i>ISI 3.1 RO FC 2</i>	Examiner/Level <i>James T. Lynch II</i>	Date <i>3-9-82</i>	
Component/Piping System <i>Charging Connection 1A</i>	ISO Drawing No. <i>Zone 34 Rev 2 FC1</i>	VCR Supervisor <i>Daniel Jensen</i>	

	Manufacturer	Type	Batch No.
Penetrant	<i>Sherwin</i>	<i>Dubl-Check</i>	<i>47L 015</i>
Developer	<i>Sherwin</i>	<i>Dubl-Check</i>	<i>129 F6</i>
Remover	<i>Sherwin</i>	<i>Dubl-Check</i>	<i>112 C4</i>

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>34-034</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



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Liquid Penetrant
D. Payne ANZI 5/10/82
 Examination Report

Customer <i>L p & L</i>	Plant <i>WATERFORD</i>	Unit <i>III</i>	Loop/Zone <i>1A / 3A</i>
Procedure <i>ISI. 3.1 REV. 0-FC-2</i>	Examiner/Level <i>Brian Kelly L. II Robert Newcomb</i>	Date <i>5-7-82</i>	
Component/Piping System <i>CHARGING CONNECTION 1A</i>	ISO Drawing No. <i>ZONE-34-REV.2-FC-1</i>	VCR Supervisor <i>Daniel Jones</i>	

	Manufacturer	Type	Batch No.	
Penetrant	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>472015</i>	
Developer	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>129-F6</i>	
Remover	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>112-C4</i>	

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>34-033</i>	<i>Re-examined after Section III clearance</i>	<input checked="checked" type="checkbox"/>		<input checked="checked" type="checkbox"/>	



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Liquid Penetrant
D. Payne ANII 5/10/82
Examination Report

Customer LP&L	Plant Waterford	Unit 3	Loop/Zone 1A/34		
Procedure ISI 3.1 R.O F.C. & RJO	Examiner/Level Robert J Overstreet II	Date 5-7-82			
Component/Piping System Charging Connection to loop 1	ISO Drawing No. Zone 34 R-2 F.C. 1	VCR Supervisor <i>Daniel Jones</i>			
	Manufacturer	Type	Batch No.		
Penetrant	Sherwin	Dubl-check	476015		
Developer	Sherwin	Dubl-check	129FG		
Remover	Sherwin	Dubl-check	112CY		
Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
34-019	Re-examined after section III clearance	✓		✓	



The
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Liquid Penetrant
R. Payne ANII 6/9/82
Examination Report

Customer	L-p e L	Plant	WATERFORD	Unit	III	Loop/Zone	2A/35
Procedure	I.S.I. 3.1 REV. 0 FC-2	Examiner/Level	BARRY AUFF L. II		Date	6-8-82	
Component/Piping System	DRAIN LINE - LOOP 2A - Cold Leg	ISO Drawing No.	ZONE #35 REV-2 FC-0		VCR Supervisor	<i>Donald Jones</i>	
	Manufacturer	Type	Batch No.				
Penetrant	SHERWIN	DUBL-CHEK	47 L015				
Developer	SHERWIN	DUBL-CHEK	129 F-6				
Remover	SHERWIN	DUBL-CHEK	725 B-4				
Weld Number	Comments	PT Results		VT Results			
		NRI	RI	SAT	UNSAT.		
35-009		✓		✓			

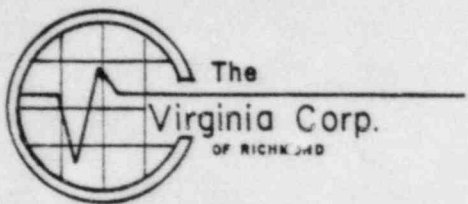


Liquid Penetrant
D. Payne ANIZ 6/7/82
 Examination Report

Customer <i>L P&L</i>	Plant <i>WATERFORD</i>	Unit <i>III</i>	Loop/Zone <i>IA/37</i>
Procedure <i>I.S.I.3.1 REV-C FC-2</i>		Examiner/Level <i>BARRY AMPF L.II</i>	
Component/Piping System <i>REACTOR COOLANT PUMP 1A</i>		Date <i>6-3-82</i>	
ISO Drawing No. <i>ZONE # 37 Rev 2 - FC-C</i>		VCR Supervisor <i>Daniel Jones</i>	

	Manufacturer	Type	Batch No.	
Penetrant	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>47 L015</i>	
Developer	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>129 F6</i>	
Remover	<i>SHERWIN</i>	<i>DUBL-CHEK</i>	<i>112-C4</i>	

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>37-003</i>	<i>O.D. only</i>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



ULTRASONIC DATA SHEET
FOR
STUDS & BOLTS

Customer <i>L P & L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>1/137</i>
Procedure <i>ISI 2.4 Rev. 0 F.C. 2</i>	Examiner/Level <i>David L. Fokun II</i>	Date <i>12/16/82</i>	
Component/Piping System <i>R.C. Pump 1A</i>	ISO Drawing No. <i>Zone 37 Rev. 2</i>	VCR Supervisor <i>David L. Fokun</i>	

CALIBRATION BLOCK		TRANSDUCER	INSTRUMENT	
Cal. Block No. <i>R.C.P. Cal. Stud</i>	S/N <i>K20168</i>	Manu. <i>Sonic</i>	Model <i>Mark I</i>	
CALIBRATION SURFACE	Size <i>.50"</i>	S/N <i>04405E</i>	Rep Rate <i>200</i>	
Flat End	Freq <i>5.0MHz</i>	Reject <i>OFF</i>	Filter <i>Hi</i>	
Grooved End <input checked="" type="checkbox"/>	Beam Angle <i>0°</i>	Damp <i>Min.</i>	Couplant <i>sonotrace</i>	
Other:	Wave Mode	Freq <i>5.0MHz</i>	Batch No. <i>#8124</i>	
	Long <input checked="" type="checkbox"/> Shear <input type="checkbox"/>	Video <i>Norm</i>	Coax <i>6'BNC-BNC</i>	

CALIBRATION

DAC Point "A"	<i>80</i> %FSH	REF DB <i>62</i>	Sweep Position <i>1.2</i>
DAC Point "B"	<i>15</i> %FSH		Sweep Position <i>3.2</i>
DAC Point "C"	<i>80</i> %FSH	REF DB <i>77</i>	Sweep Position <i>3.2</i>
DAC Point "D"	<i>10</i> %FSH		Sweep Position <i>5.4</i>

Signal To Noise Ratio <i>N:A</i>	Calibration Checks	
	IN <i>11:24</i>	OUT <i>14:50</i>
	IN	OUT
	IN	OUT

EXAMINATION RESULTS

ITEM NO.	RESULTS		COMMENTS	VISUAL	
	NRI	RI		SATIS	UNSAT
<i>37-5-001 thru</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
<i>37-5-016</i>					



The
Virginia Corp.
of Richmond

Liquid Penetrant
D. Payne ANII 6/7/82
Examination Report

Customer <i>LP&L</i>	Plant <i>WATERFORD</i>	Unit <i>III</i>	Loop/Zone <i>1B/38</i>
Procedure <i>I.S.I. 3.1. REV. 0 FC-Z</i>	Examiner/Level <i>BARRY ROUFF L. II</i>	Date <i>6-2-82</i>	
Component/Piping System <i>REACTOR COOLANT PUMP 1B</i>	ISO Drawing No. <i>ZONE # 38 REV. 2 FC-0</i>	VCR Supervisor <i>Daniel Dena</i>	

	Manufacturer	Type	Batch No.
Penetrant	SHERWIN	DUBL-CHEK	47L015
Developer	SHERWIN	DUBL-CHEK	129F-6
Remover	SHERWIN	DUBL-CHEK	112C-4

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
38-003	O.D. only	✓		✓	



The Virginia Corp.
of Richmond

Liquid Penetrant
D. Payne ANZI 6/7/82
Examination Report

Customer <i>LP&L</i>		Plant <i>WATERFORD</i>		Unit <i>III</i>		Loop/Zone <i>1B/38</i>	
Procedure <i>I.S.I. 3.1. REV.-0 FC-2</i>		Examiner/Level <i>Randy Huff L.II</i>				Date <i>6-5-82</i>	
Component/Piping System <i>REACTOR COOLANT Pump 1B</i>		ISO Drawing No. <i>ZONE # 38 FC-0 Rev 2</i>		VCR Supervisor <i>Daniel Jones</i>			
		Manufacturer	Type	Batch No.			
Penetrant	<i>SHERWIN</i>	<i>NUBL-CHEK</i>	<i>47L015</i>				
Developer	<i>SHERWIN</i>	<i>NUBL-CHEK</i>	<i>129 F-6</i>				
Remover	<i>SHERWIN</i>	<i>NUBL-CHEK</i>	<i>112-C 4</i>				
Weld Number	Comments	PT Results		VT Results			
		NRI	RI	SAT	UNSAT.		
<i>38-003</i>	<i>I.D. only</i>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			

M.R. Martin, ANII 1-11-83



The Virginia Corp. OF RICHMOND

ULTRASONIC DATA SHEET
FOR
STUDS & BOLTS

Customer <u>L P & L</u>	Plant <u>Waterford</u>	Unit <u>3</u>	Loop/Zone <u>1138</u>		
Procedure <u>ISI-2.4 Rev. O.F.C. 2</u>	Examiner/Level <u>David J. Fokan / II</u>	Date <u>12/16/82</u>			
Component/Piping System <u>R.C. Pump 1B</u>	ISO Drawing No. <u>Zone 38 Rev. 2</u>	VCR Supervisor <u>David J. Fokan</u>			
CALIBRATION BLOCK	TRANSDUCER	INSTRUMENT			
Cal. Block No. <u>R.L.P. Cal. Stud</u>	S/N <u>K20168</u>	Manu. <u>Sonic</u>	Model <u>Mark I</u>		
CALIBRATION SURFACE	Size <u>.50"</u>	S/N <u>04405E</u>	Rep Rate <u>200</u>		
Flat End	Freq <u>5.0 mhz</u>	Reject <u>OFF</u>	Filter <u>Hi</u>		
Grooved End <input checked="" type="checkbox"/>	Beam Angle <u>0°</u>	Damp <u>Min</u>	Couplant <u>sonotrace</u>		
Other:	Wave Mode	Freq <u>5.0 mhz</u>	Batch No. <u>8124</u>		
	Long <input checked="" type="checkbox"/> Sh <input type="checkbox"/>	Video <u>Norm</u>	Coax <u>6 BNC-BNC</u>		
CALIBRATION					
DAC Point "A" <u>80</u> %FSH	REF DB <u>62</u>	Sweep Position <u>1.2</u>			
DAC Point "B" <u>15</u> %FSH	REF DB <u>77</u>	Sweep Position <u>3.2</u>			
DAC Point "C" <u>80</u> %FSH		Sweep Position <u>3.2</u>			
DAC Point "D" <u>10</u> %FSH		Sweep Position <u>5.4</u>			
Signal To Noise Ratio <u>N/A</u>	Calibration Checks				
	IN <u>07:52</u>	OUT <u>11:24</u>			
	IN	OUT			
	IN	OUT			
EXAMINATION RESULTS					
ITEM NO.	RESULTS		COMMENTS	VISUAL	
	NRI	NI		SATIS	UNSAT
<u>38-S-001 thru</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
<u>38-S-016</u>					



Liquid Penetrant
D. Payne ANZI 6/7/82
Examination Report

Customer <i>LP&L</i>		Plant <i>WATERFORD</i>		Unit <i>III</i>		Loop/Zone <i>2A/39</i>	
Procedure <i>I-SI 3.1. Rev 0-FC-2</i>		Examiner/Level <i>BARRY ROUFF L. II</i>				Date <i>6-1-82</i>	
Component/Piping System <i>Reactor Coolant Pump 2A</i>		ISO Drawing No. <i>ZONE # 39 REV. 2 FC-0</i>			VCA Supervisor <i>Walter Jones</i>		
	Manufacturer	Type	Batch No.				
Penetrant	<i>Sherwin</i>	<i>DUBL-CHEK</i>	<i>47 L015</i>				
Developer	<i>Sherwin</i>	<i>DUBL-CHEK</i>	<i>129 F-6</i>				
Remover	<i>Sherwin</i>	<i>DUBL-CHEK</i>	<i>112-C 4</i>				
Weld Number	Comments	PT Results		VT Results			
		NRI	RI	SAT	UNSAT.		
<i>39-003</i>	<i>I.D. only</i>	<input checked="checked" type="checkbox"/>		<input checked="checked" type="checkbox"/>			

W.R. Martin, ANII 1-11-83



ULTRASONIC DATA SHEET
FOR
STUDS & BOLTS

Customer <i>LP&L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>2139</i>
Procedure <i>ISI-24 Rev. 0 F.C. 2</i>	Examiner/Level <i>David L. Foker II</i>	Date <i>12/15/82</i>	
Component/Piping System <i>R.L. Pump 2A</i>	ISO Drawing No. <i>Zone 39 Rev. 7</i>	VCR Supervisor <i>David L. Foker</i>	
CALIBRATION BLOCK		TRANSDUCER	
Cal. Block No. <i>RCP Cal. Stud 04-134</i>	S/N <i>K20168</i>	Manu. <i>Sonic</i>	Model <i>Mark I</i>
CALIBRATION SURFACE		INSTRUMENT	
Flat End	Size <i>.50"</i>	S/N <i>04405E</i>	Rep Rate <i>200</i>
Grooved End <input checked="" type="checkbox"/>	Freq <i>5.0 mhz</i>	Reject <i>OFF</i>	Filter <i>H:</i>
Other:	Beam Angle <i>0°</i>	Damp <i>Min.</i>	Couplant <i>Sonotrace</i>
	Wave Mode	Freq <i>5.0 mhz</i>	Batch No. <i>40 #8124</i>
	Long <input checked="" type="checkbox"/> Shear <input type="checkbox"/>	Video <i>Norm</i>	Coax <i>6' RNL-BNC</i>

CALIBRATION

DAC Point "A" <i>80</i> %FSH	REF DB <i>62</i>	Sweep Position <i>1.2</i>
DAC Point "B" <i>15</i> %FSH		Sweep Position <i>3.2</i>
DAC Point "C" <i>80</i> %FSH	REF DB <i>77</i>	Sweep Position <i>3.2</i>
DAC Point "D" <i>10</i> %FSH		Sweep Position <i>5.4</i>

Signal To Noise Ratio <i>N.A.</i>	Calibration Checks	
	IN <i>07:52</i>	OUT <i>11:24</i>
	IN	OUT
	IN	OUT

EXAMINATION RESULTS

ITEM NO.	RESULTS		COMMENTS	VISUAL	
	NRI	RI		SATIS	UNSAT
<i>39-S-001 HCU</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
<i>39-S-016</i>					

W. R. Martin, ANIE 1-11-83



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ULTRASONIC DATA SHEET

FOR
STUDS & BOLTS

Customer <i>LP & L</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>2140</i>
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Procedure <i>ISI-2.4 Rev. 0 F6.2</i>	Examiner/Level <i>David L. Foken II</i>	Date <i>12/16/82</i>
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Component/Piping System <i>R.C. Pump 2B</i>	ISO Drawing No. <i>Zone 40 Rev. 2</i>	VCR Supervisor <i>David L. Foken</i>
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CALIBRATION BLOCK		TRANSDUCER		INSTRUMENT	
Cal. Block No. <i>R.C. Cal. Stud</i> <small>Dr. 134</small>	S/N <i>K20168</i>	Manu. <i>Sonic</i>	Model <i>Mack I</i>		
CALIBRATION SURFACE	Size <i>.50"</i>	S/N <i>04405E</i>	Rep Rate <i>200</i>		
Flat End	Freq <i>5.0 MHz</i>	Reject <i>OFF</i>	Filter <i>Hi</i>		
Grooved End <input checked="" type="checkbox"/>	Beam Angle <i>0°</i>	Damp <i>min</i>	Couplant <i>Sonotrace</i> <small>40</small>		
Other:	Wave Mode	Freq <i>5.0 MHz</i>	Batch No. <i>#8124</i>		
	Long <input checked="" type="checkbox"/> Shear <input type="checkbox"/>	Video <i>Norm</i>	Coax <i>6 BNC BNC</i>		

CALIBRATION

DAC Point "A"	<i>80</i> %FSH	REF DB <i>62</i>	Sweep Position <i>1.2</i>
DAC Point "B"	<i>15</i> %FSH		Sweep Position <i>3.2</i>
DAC Point "C"	<i>80</i> %FSH	REF DB <i>77</i>	Sweep Position <i>3.2</i>
DAC Point "D"	<i>10</i> %FSH		Sweep Position <i>5.4</i>

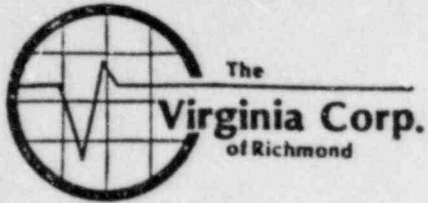
Signal To Noise Ratio *N/A*

Calibration Checks

IN	<i>07:52</i>	OUT	<i>11:24</i>
IN		OUT	
IN		OUT	

EXAMINATION RESULTS

ITEM NO.	RESULTS		COMMENTS	VISUAL	
	NRI	RI		SATIS	UNSAT
<i>40-5-001 thru</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
<i>40-5-016</i>					

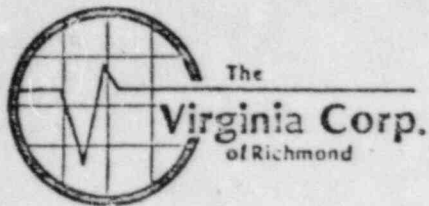


Liquid Penetrant
D. Payne ANET 7/9/82
 Examination Report

Customer <i>L.P.E.I.</i>	Plant <i>Waterford</i>	Unit <i>3</i>	Loop/Zone <i>2/40</i>
Procedure <i>ISI-3.1 Rev. D. F.C. 2</i>	Examiner/Level <i>Harry A. Lottis WEF</i>	Date <i>7-7-82</i>	
Component/Piping System <i>Reactor Coolant Pump 2B</i>	ISO Drawing No. <i>Zone 40, Rev. 2, F.C. 0</i>	VCR Supervisor <i>Daniel J. Hens</i>	

	Manufacturer	Type	Batch No.	
Penetrant	<i>Sherwin Inc.</i>	<i>Dubl-Chek</i>	<i>A7L-015</i>	
-Developer	<i>Sherwin Inc.</i>	<i>Dubl-Chek</i>	<i>129 F6</i>	
Remover	<i>Sherwin Inc.</i>	<i>Dubl-Chek</i>	<i>225 B4</i>	

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT.	UNSAT.
<i>40-003</i>	<i>I.D. only</i>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	



Liquid Penetrant

D. Payne ANII 6/1/82 Examination Report

Customer: LPEL Plant: WATERFORD Unit: III Loop/Zone: 2B/40

Procedure: I.S.I. 3.1. REV-0 FC-2 Examiner/Level: Barry Acuff L-II Date: 6-3-82

Component/Piping System: REACTOR COOLANT PUMP 2B ISO Drawing No.: ZONE #40 REV-2 FC-0 VCR Supervisor: [Signature]

	Manufacturer	Type	Batch No.
Penetrant	Sherwin	DUBL-CHEK	47L015
Developer	Sherwin	DUBL-CHEK	129F-6
Remover	Sherwin	DUBL-CHEK	112-C4

Weld Number	Comments	PT Results		VT Results	
		NRI	RI	SAT	UNSAT.
40-003	OD. only	✓		✓	