

## ENCLOSURE

### RELIEF REQUEST 2-RR-7

#### NEXTERA ENERGY POINT BEACH, LLC POINT BEACH NUCLEAR PLANT UNIT 2

#### REQUEST FOR WELD RE-CATEGORIZATION

##### **ASME Code Component(s) Affected**

Code Class: 1  
Drawing Numbers: ISI-2120, ISI-2121

Table 1

Examination Category	Code Case Inspection Item	Description
N-770-1	A-2	RC-34-MRC-AII-05, Safe-End to "A" Inlet Nozzle
N-770-1	B	RC-36-MRCL-AII-01A, "A" Outlet Nozzle to Safe-End
N-770-1	A-2	RC-34-MRC-BI-05, Safe-End to "B" Inlet Nozzle
N-770-1	B	RC-36-MRCL-BII-01A, "B" Outlet Nozzle to Safe-End

##### **Applicable Code Edition and Addenda**

NextEra Energy Point Beach, LLC (NextEra) is currently in the Fifth Ten-Year inservice inspection (ISI) interval. The current ISI program is based on the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (B&PV) Code, Section XI, 2007 Edition with Addenda through 2008.

##### **Applicable Code Requirements**

Code Case N-770-1, "Alternative Examination Requirements and Acceptance Standards for Class 1 PWR Piping and Vessel Nozzle Butt Welds Fabricated with UNS N06082 or UNS W86182 Weld Filler Material With or Without Application of Listed Mitigation Activities Section XI, Division 1."

ASME Section XI, Division 1, "Rules for Inservice Inspection of Nuclear Power Plant Components"

##### **Reason for the Request**

NextEra is requesting that the affected welds listed above be re-categorized due to the imposed rulemaking changes in 10 CFR 50.55a [FR36232 Volume 76, Number 119], issued June 21, 2011. The rulemaking imposed the use of ASME Code Case N-770-1 with conditions specified in 10 CFR 50.55a(g)(6)(ii)(F) specifically for Class 1 piping and nozzle dissimilar metal butt welds. As stated within 10 CFR 50.55a(g)(6)(ii)(F)(2):

“...all other butt welds that rely on Alloy 82/182 for structural integrity shall be categorized as Inspection Items A-1, A-2, or B until the NRC staff has reviewed the mitigation and authorized an alternative Code Case Inspection item for the mitigated weld...”

### **Proposed Alternative and Basis for Use**

Pursuant to 10 CFR 50.55a(g)(6)(ii)(F), re-categorization is requested for the Unit 2 replacement steam generator (SG) inlet and outlet nozzle safe-end welds. Based upon the manufacturing process of the SGs, chemistry analysis of archived weld samples from construction, and automated ultrasonic and eddy current examination of all four (4) welds, NextEra is requesting that all four welds be re-categorized as Inspection Item G, “Uncracked Butt Weld Mitigated With an Inlay.”

Point Beach Nuclear Plant (PBNP) Unit 2 has two (2) Delta 47 ( $\Delta 47$ ) SGs which were installed as replacements in fall 1996 (U2R22). The SGs are primarily carbon steel with the channel head and nozzles clad with austenitic stainless steel. The SG nozzle to safe-end weld is composed of Alloy 82/182 buttering and Alloy 82 weld material. The inside surface of the weld and adjacent base material was clad with Alloy 52 at the factory during fabrication (Attachment 1). These welds received ASME Section III examinations (liquid penetrant and radiography) prior to installation. In addition, the ASME Section XI pre-service examinations (liquid penetrant and ultrasonic examinations) were performed prior to installation at PBNP.

The subject welds received ASME Section XI Appendix VIII-demonstrated, automated phased array ultrasonic (PA-UT) examinations as well as ASME Section XI Appendix IV-demonstrated automated eddy current (ECT) examinations in November 2012 delivered with remote tooling from the inside surface (ID). Neither the PA-UT nor the ECT recorded indications on any of the four welds. The use of both ECT and PA-UT techniques ensured that neither surface-breaking flaws nor sub-surface flaws were located within the lower 1/3t of the weld which could propagate through the Alloy 52 cladding material into the Alloy 82 weld material.

NextEra is providing a copy of the U2R32 ISI examination reports (Attachment 2), as well as a copy of the archive weld sample chemistry report (Attachment 3).

In accordance with Code Case N-770-1, the re-categorization of these welds to a “G” category will require NextEra to add these welds to the scheduled ISI Program plan and perform a qualified volumetric and surface examination of twenty-five percent of the weld population once each inspection interval. This means that one (1) of the SG safe-end to inlet nozzle welds will be examined in approximately 2022.



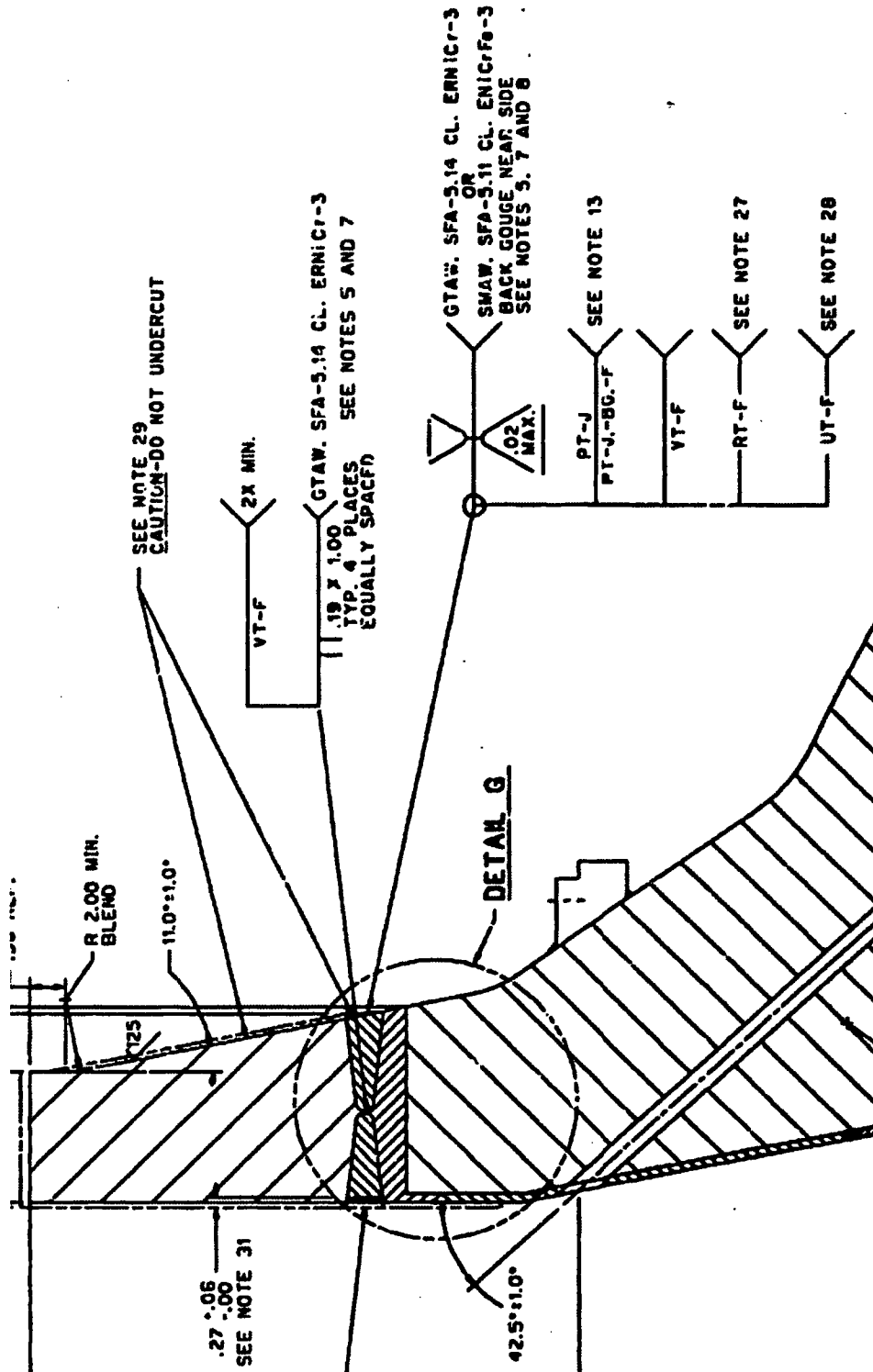
### **Duration of Proposed Alternative**

The proposed alternative categorization for the Unit 2 SG nozzle dissimilar metal welds (inlet and outlet) will be a permanent change to the PBNP ISI Program for the duration of the extended license.

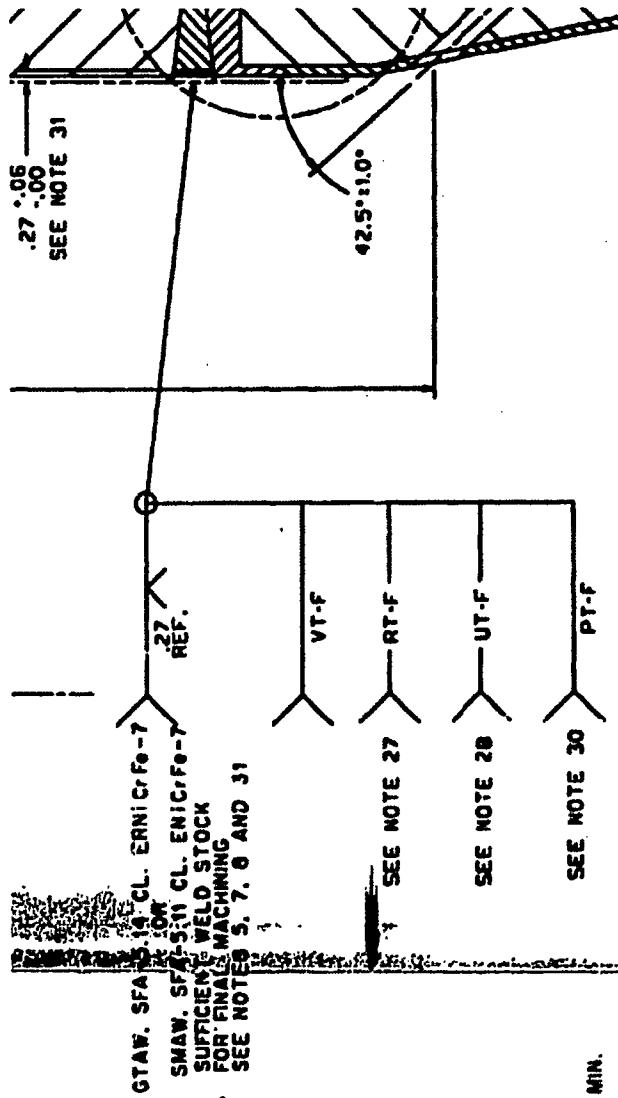
### **Precedents**

None

Attachment 1  
Excerpt from Westinghouse Drawing 6147E62  
Weld Detail



Attachment 1  
 Excerpt from Westinghouse Drawing 6147E62  
 Alloy 52 Cladding Detail



**Attachment 2**  
**Automated Ultrasonic and Eddy Current Reports**  
**U2R32 – November, 2012**

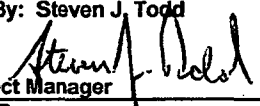

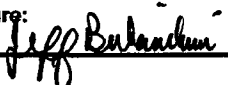


# IHI Southwest Technologies Examination Summary Record

Utility: NextEra Energy		Site: Point Beach Nuclear Plant Unit 2 Outage: U2R32		Summary Sheet No. 00100			
System: Steam Generator		Line Subassembly: Safe End to "A" SG In Noz			Identification: RC-34-MRCL-AI-05		
NDE Method	Proc/Rev/Chg/ICN	NDE Examination	Calibration Sheet No's.	Exam Sheet No.	NRI	Other	Remarks
AUT	ISwT-PDI-AUT11/2/0/1	UT Probe 1 (60-88")	110002	1 - 2	X	-	UT TWD & AWY Exam
AUT	ISwT-PDI-AUT11/2/0/1	UT Probe 2 (60-88")	110002	1 - 2	X	-	UT TWD & AWY Exam
AUT	ISwT-PDI-AUT11/2/0/1	UT Probe 1 (60-88")	110001	3 - 5	X	-	UT CW & CCW Exam
AUT	ISwT-PDI-AUT11/2/0/1	UT Probe 2 (60-88")	110001	3 - 5	X	-	UT CW & CCW Exam
AET	ISwT-PDI-AET3/2/0/0	ET Probe 1	ET03-PTB-002	3 - 5	X	-	Eddy Current Exam
AET	ISwT-PDI-AET3/2/0/0	ET Probe 2	ET03-PTB-002	3 - 5	X	-	Eddy Current Exam

## Examination Summary:

This weld was examined from the inside surface using SG-NExT, T-III, & MS5800 examination equipment.  
The examination coverage was 100%.

Prepared By: Steven J. Todd			
Signature: 	Date: 11/22/12		
ISwT Project Manager			
Reviewed By: William A. Jensen		Reviewed By: Jeff Bukowiecki	
Signature: 	Date: 11-23-12	Signature: 	Date: 11/28/12
NextEra Energy Point Beach		ANII	



# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

Site/Plant : Point Beach Unit 2	Weld Identification: RC-34-MRCL-AI-05	Pro/Rev/Chg/ICN: ISWT-PDI-AUT11/2/0/1	Examination No.: ID-1
Project No.: 12-0301	Weld Description: SE-to-A S/G In Noz (0°-185°)	Device Configuration: 136-00045	
Mod.Conf.: 138-00032	Scan Path Drawing: 134-00079	Exam Date	Examination Time
Data Acquisition Operator (s) / SNT Level: Jeremy Howe / II		14 Nov. 2012	Start End
		1505	1542
		Start End	94.4 94.4

### Data Acquisition

<b>Scan Controller Parameters</b>	<b>Increment Axis</b>	<b>Planned</b>	<b>Actual</b>	<b>Scan Axis</b>	<b>Planned</b>	<b>Actual</b>	<b>Positional Parameters</b>
Controller: SG-NEXT	Lower Limit	70.75	70.75	Lower Limit	0.00	0.00	Beam Direction: Twd/Awy
Scan: X Rotator Drive	Upper Limit	79.15	79.22	Upper Limit	49.77	49.77	Probe Type: PA22-001
Increment: Y Axial Drive	Inc. Interval (Resolution)	0.15		DCI (Scan Resolution)	0.10		Scanning Speed: 2.0 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 57
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/L: N/A

Master Acquisition File: DM_Pipe_ID_90_AWY_270_TWD_Skew.acq					Calibration Records:	Examination Notes:
Probe	Channel / Angle(s)	Skew	Scan Offset	Step Offset		Pipe Diameter = 30.83"
Probe 1	1-(60-88°L)	90°	+ 69.92(in)	- 1.52(in)	110002	Circumference = 96.86"
Probe 2	2-(60-88°L)	270°	+ 59.22(in)	- 2.90(in)	110002	
Probe 3	3-(0°Profilometry)	0°	+ 0.00(in)	+ 0.00(in)	110002	Examination Remarks:
N/A	N/A	N/A	N/A	N/A	N/A	

### Data Analysis

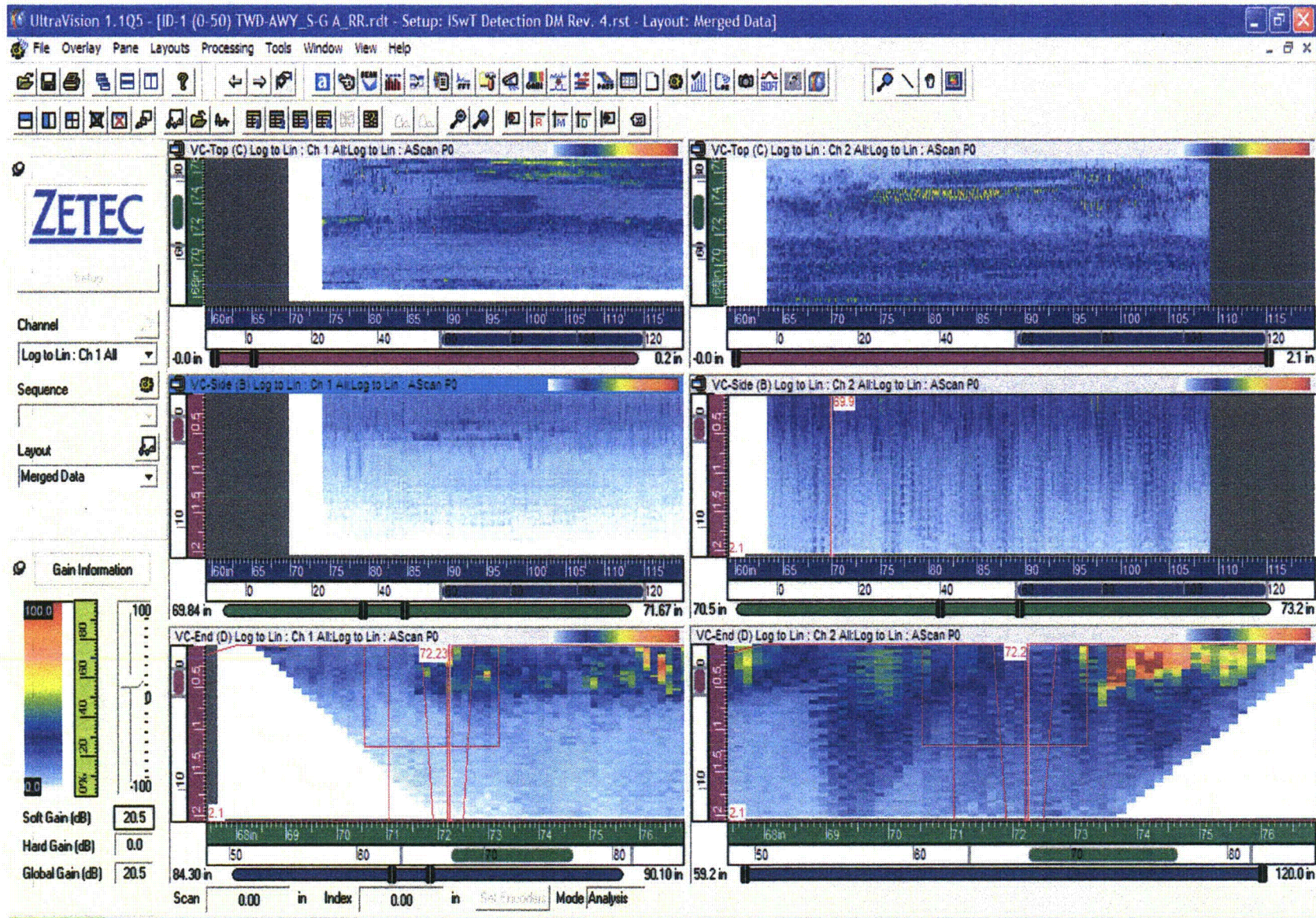
Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks	
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment:
	Start	Stop	Start	Stop					
1 - 57	70.75	79.22	0.00	49.77	Probe 1	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 2	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation Required:
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 3	Channel 1 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Archive Media:
						Channel 2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> External Hard Drive
						Channel 3 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					ET Probe 1	Channel 1-2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> CD-ROM
					ET Probe 2	Channel 3-4 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> DVD-ROM
					N/A	N/A <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Analyst / SNT Level / Date:

Jesse R. Delgado / III / 14 Nov. 2012



# ID-1 SG A Safe-End to Inlet Nozzle (Away Towards)







# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

<b>Site/Plant :</b> Point Beach Unit 2	<b>Weld Identification:</b> RC-34-MRCL-AI-05	<b>Pro/Rev/Chg/ICN:</b> ISwT-PDI-AUT11/2/0/1	<b>Examination No.:</b> ID-1RR		
<b>Project No.:</b> 12-0301	<b>Weld Description:</b> SE-to-A S/G In Noz (0°-185°)	<b>Device Configuration:</b> 136-00045			
<b>Mod.Conf.:</b> 138-00032	<b>Scan Path Drawing:</b> 134-00079	<b>Exam Date</b>	<b>Examination Time</b>		
<b>Data Acquisition Operator (s) / SNT Level:</b> Jeremy Howe / II		14 Nov. 2012	<b>Start</b>	<b>End</b>	<b>Surface Temperature °F</b>
			1720	1800	Start: 94.4, End: 94.4

### Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NExT	Lower Limit	70.75	70.75	Lower Limit	0.00	0.00	Beam Direction: Twd/Awy
Scan: X Rotator Drive	Upper Limit	79.15	79.22	Upper Limit	49.77	49.77	Probe Type: PA22-001
Increment: Y Axial Drive	Inc. Interval (Resolution)	0.15		DCI (Scan Resolution)	0.10		Scanning Speed: 2.0 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 57
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/I: N/A

<b>Master Acquisition File:</b> DM_Pipe_ID_90_AWY_270_TWD_Skew.acq					<b>Calibration Records:</b>	<b>Examination Notes:</b>
Probe	Channel / Angle(s)	Skew	Scan Offset	Step Offset		Pipe Diameter = 30.83"
Probe 1	1-(60-88°L)	90°	+ 69.92(in)	- 1.52(in)	110002	Circumference = 96.86"
Probe 2	2-(60-88°L)	270°	+ 59.22(in)	- 2.90(in)	110002	
Probe 3	3-(0°Profilometry)	0°	+ 0.00(in)	+ 0.00(in)	110002	<b>Examination Remarks:</b>
N/A	N/A	N/A	N/A	N/A	N/A	

### Data Analysis

Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks	
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment:
	Start	Stop	Start	Stop					
1 - 57	70.75	79.22	0.00	49.77	Probe 1	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation
					Probe 2	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Required:
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 3	Channel 1 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Archive Media:
						Channel 2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> External Hard Drive
						Channel 3 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					ET Probe 1	Channel 1-2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> CD-ROM
					ET Probe 2	Channel 3-4 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> DVD-ROM
					N/A	N/A <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

**Analyst / SNT Level / Date:** Jesse R. Delgado / III / 14 Nov. 2012





# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

<b>Site/Plant :</b> Point Beach Unit 2	<b>Weld Identification:</b> RC-34-MRCL-AI-05	<b>Pro/Rev/Chg/ICN:</b> ISwT-PDI-AUT11/2/0/1	<b>Examination No.:</b> ID-2
<b>Project No.:</b> 12-0301	<b>Weld Description:</b> SE-to-A S/G In Noz (180°-365°)	<b>Device Configuration:</b> 136-00045	
<b>Mod.Conf.:</b> 138-00032	<b>Scan Path Drawing:</b> 134-00079	<b>Exam Date</b>	<b>Examination Time</b>
<b>Data Acquisition Operator (s) / SNT Level:</b>	<b>Jeremy Howe / II</b>	<b>Start</b>	<b>End</b>
		14 Nov. 2012	1551 1630
			<b>Surface Temperature °F</b>
			<b>Start End</b>
			94.4 94.4

### Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NExT	Lower Limit	71.56	71.56	Lower Limit	48.43	48.43	Beam Direction: Twd/Awy
Scan: X Rotator Drive	Upper Limit	79.15	79.22	Upper Limit	98.20	98.20	Probe Type: PA22-001
Increment: Y Axial Drive	Inc. Interval (Resolution)	0.15		DCI (Scan Resolution)	0.10		Scanning Speed: 2.0 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 52
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/I N/A

<b>Master Acquisition File:</b> DM_Pipe_ID_90_AWY_270_TWD_Skew.acq					<b>Calibration Records:</b>	<b>Examination Notes:</b>
<b>Probe</b>	<b>Channel /Angle(s)</b>	<b>Skew</b>	<b>Scan Offset</b>	<b>Step Offset</b>		Pipe Diameter = 30.83"
Probe 1	1-(60-88°L)	90°	+ 69.92(in)	- 1.52(in)	110002	Circumference = 96.86"
Probe 2	2-(60-88°L)	270°	+ 59.22(in)	- 2.90(in)	110002	
Probe 3	3-(0°Profilometry)	0°	+ 0.00(in)	+ 0.00(in)	110002	<b>Examination Remarks:</b>
N/A	N/A	N/A	N/A	N/A	N/A	

### Data Analysis

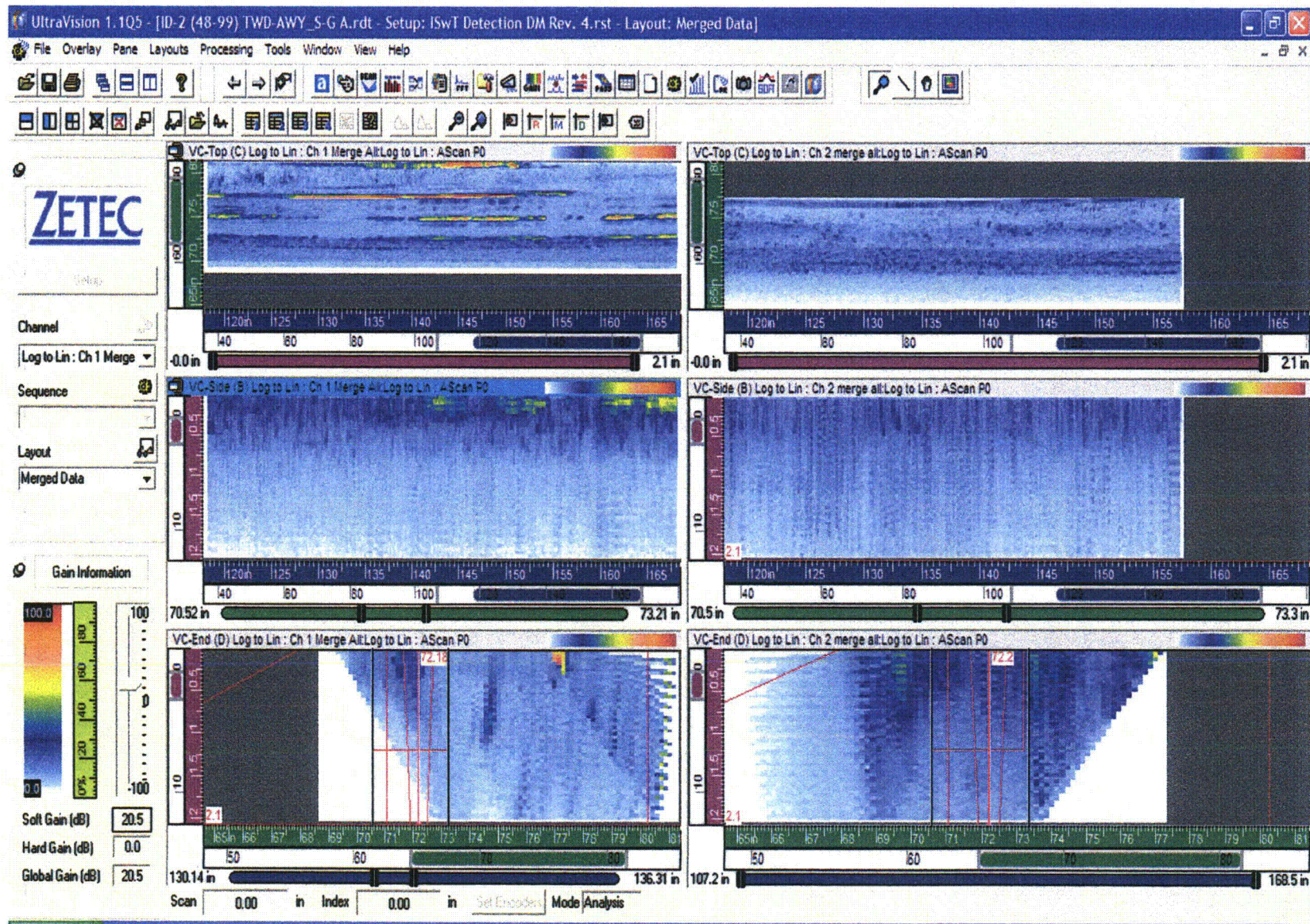
Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks	
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment:
	Start	Stop	Start	Stop					
1 - 52	71.56	79.22	48.43	98.20	Probe 1	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 2	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Required:
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
					Probe 3	Channel 1 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Archive Media:
						Channel 2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> External Hard Drive
						Channel 3 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> CD-ROM
					ET Probe 1	Channel 1-2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DVD-ROM
					ET Probe 2	Channel 3-4 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					N/A	N/A <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Analyst / SNT Level / Date:

Jesse R. Delgado / III / 14 Nov. 2012



# ID-2 SG A Safe-End to Inlet Nozzle (Away Towards)







# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

<b>Site/Plant :</b> Point Beach Unit 2	<b>Weld Identification:</b> RC-34-MRCL-AI-05	<b>Pro/Rev/Chg/ICN:</b> ISWT-PDI-AUT11/2/0/1	<b>Examination No.:</b> ID-2 Partial		
<b>Project No.:</b> 12-0301	<b>Weld Description:</b> SE-to-A S/G In Noz (180°-365°)	<b>Device Configuration:</b> 136-00045			
<b>Mod.Conf.:</b> 138-00032	<b>Scan Path Drawing:</b> 134-00079	<b>Exam Date</b>	<b>Examination Time</b>		
<b>Data Acquisition Operator (s) / SNT Level:</b> Jeremy Howe / II		14 Nov. 2012	<b>Start</b>	<b>End</b>	<b>Surface Temperature °F</b>
			0338	0342	94.4

### Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NExT	Lower Limit	70.75	70.75	Lower Limit	48.43	48.43	Beam Direction: Twd/Awy
Scan: X Rotator Drive	Upper Limit	71.95	71.95	Upper Limit	98.20	98.20	Probe Type: PA22-001
Increment: Y Axial Drive	Inc. Interval (Resolution)	0.15		DCI (Scan Resolution)	0.10		Scanning Speed: 2.0 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 9
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/I N/A

Master Acquisition File: DM_Pipe_ID_90_AWY_270_TWD_Skew.acq					Calibration Records:	Examination Notes:
Probe	Channel /Angle(s)	Skew	Scan Offset	Step Offset		
Probe 1	1-(60-88°L)	90°	+ 69.92(in)	- 1.52(in)	110002	Pipe Diameter = 30.83"
Probe 2	2-(60-88°L)	270°	+ 59.22(in)	- 2.90(in)	110002	Circumference = 96.86"
Probe 3	3-(0°Profilometry)	0°	+ 0.00(in)	+ 0.00(in)	110002	<b>Examination Remarks:</b>
N/A	N/A	N/A	N/A	N/A	N/A	

### Data Analysis

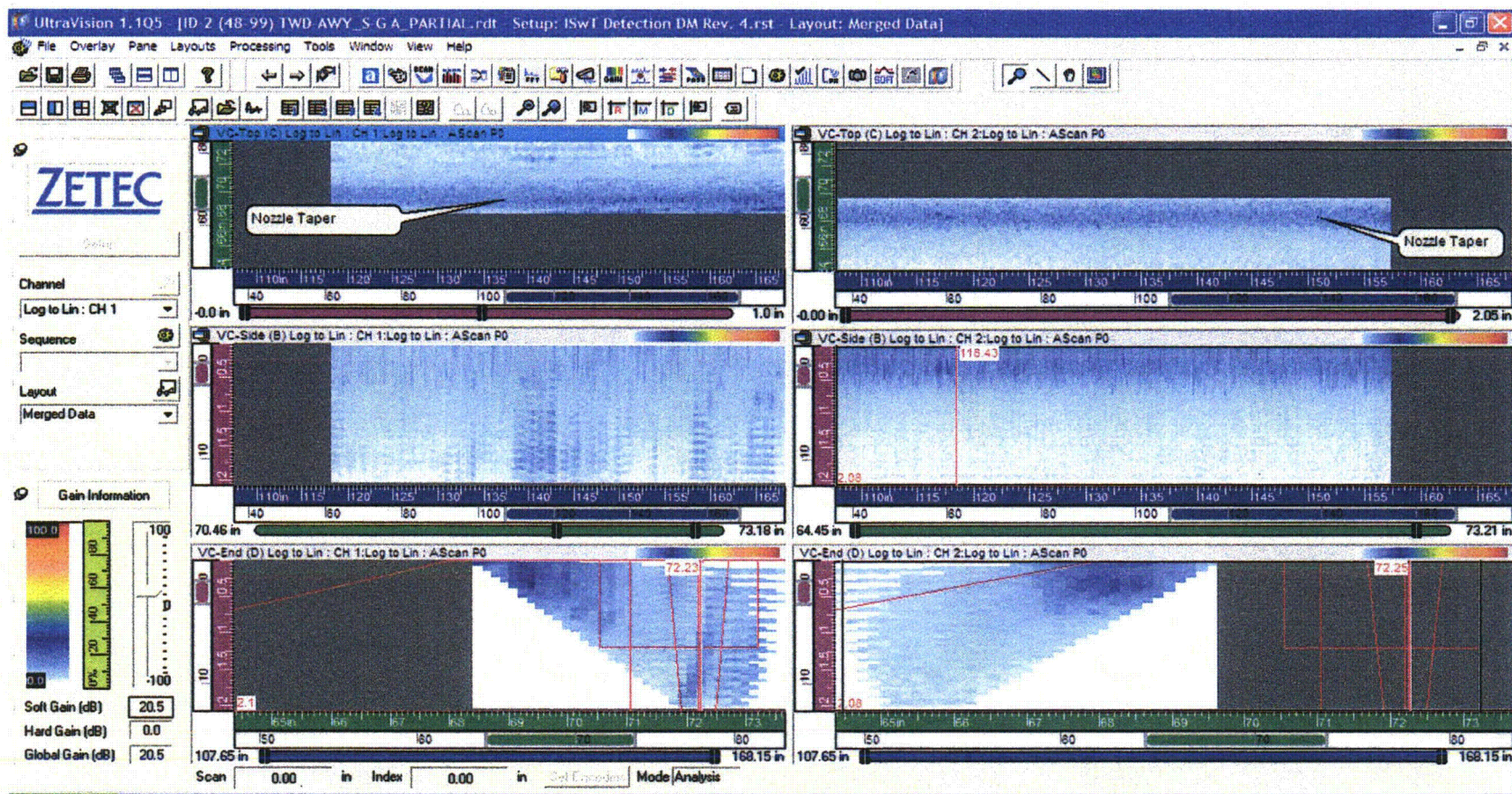
Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks		
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment:	
	Start	Stop	Start	Stop						
1 - 9	70.75	71.95	48.43	98.20	Probe 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
						<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation Required:	
					Probe 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
					Probe 3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Archive Media:	
						<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> External Hard Drive
						<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/> CD-ROM
					ET Probe 1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> DVD-ROM	
					ET Probe 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
					N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

**Analyst / SNT Level / Date:**

Jesse R. Delgado / III / 14 Nov. 2012



# ID-2 ( 48-99 Partial) SG A Safe-End to Inlet Nozzle (Away Towards)







# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

<b>Site/Plant :</b> Point Beach Unit 2	<b>Weld Identification:</b> RC-34-MRCL-AI-05	<b>Pro/Rev/Chg/ICN:</b> ISwT-PDI-AUT11/2/0/1	<b>Examination No.:</b> ID-3		
<b>Project No.:</b> 12-0301	<b>Weld Description:</b> SE-to-A S/G In Noz (0°-125°)	<b>Device Configuration:</b> 136-00045			
<b>Mod.Conf.:</b> 138-00032	<b>Scan Path Drawing:</b> 134-00079	<b>Exam Date</b>	<b>Examination Time</b>		
<b>Data Acquisition Operator (s) / SNT Level:</b> Jeremy Howe / II		14 Nov. 2012	<b>Start</b>	<b>End</b>	<b>Surface Temperature °F</b>
			1045	1137	Start
			1045	1137	94.4

### Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NExT	Lower Limit	71.56	71.56	Lower Limit	0.00	0.00	Beam Direction: Cw/Ccw
Scan: X Rotator Drive	Upper Limit	76.24	76.24	Upper Limit	33.63	33.63	Probe Type: PA22-001
Increment: Y Axial Drive	Inc. Interval (Resolution)	0.05		DCI (Scan Resolution)	0.05		Scanning Speed: 1.5 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 95
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/I N/A

<b>Master Acquisition File:</b> DM_Pipe_ID_0_CW_180_CCW_Skew.acq					<b>Calibration Records:</b>	<b>Examination Notes:</b>
<b>Probe</b>	<b>Channel /Angle(s)</b>	<b>Skew</b>	<b>Scan Offset</b>	<b>Step Offset</b>		
Probe 1	1-(60-88°L)	0°	+ 27.57(in)	- 2.21(in)	110001	Pipe Diameter = 30.83"
Probe 2	2-(60-88°L)	180°	+ 37.01(in)	- 2.21(in)	110001	Circumference = 96.86"
N/A	N/A	N/A	N/A	N/A	N/A	<b>Examination Remarks:</b>
ET Probe 1	1-2	+22.5°	+ 5.35(in)	+ 0.00(in)	ET03-PTB-02	
ET Probe 2	3-4	-22.5°	- 5.35(in)			

### Data Analysis

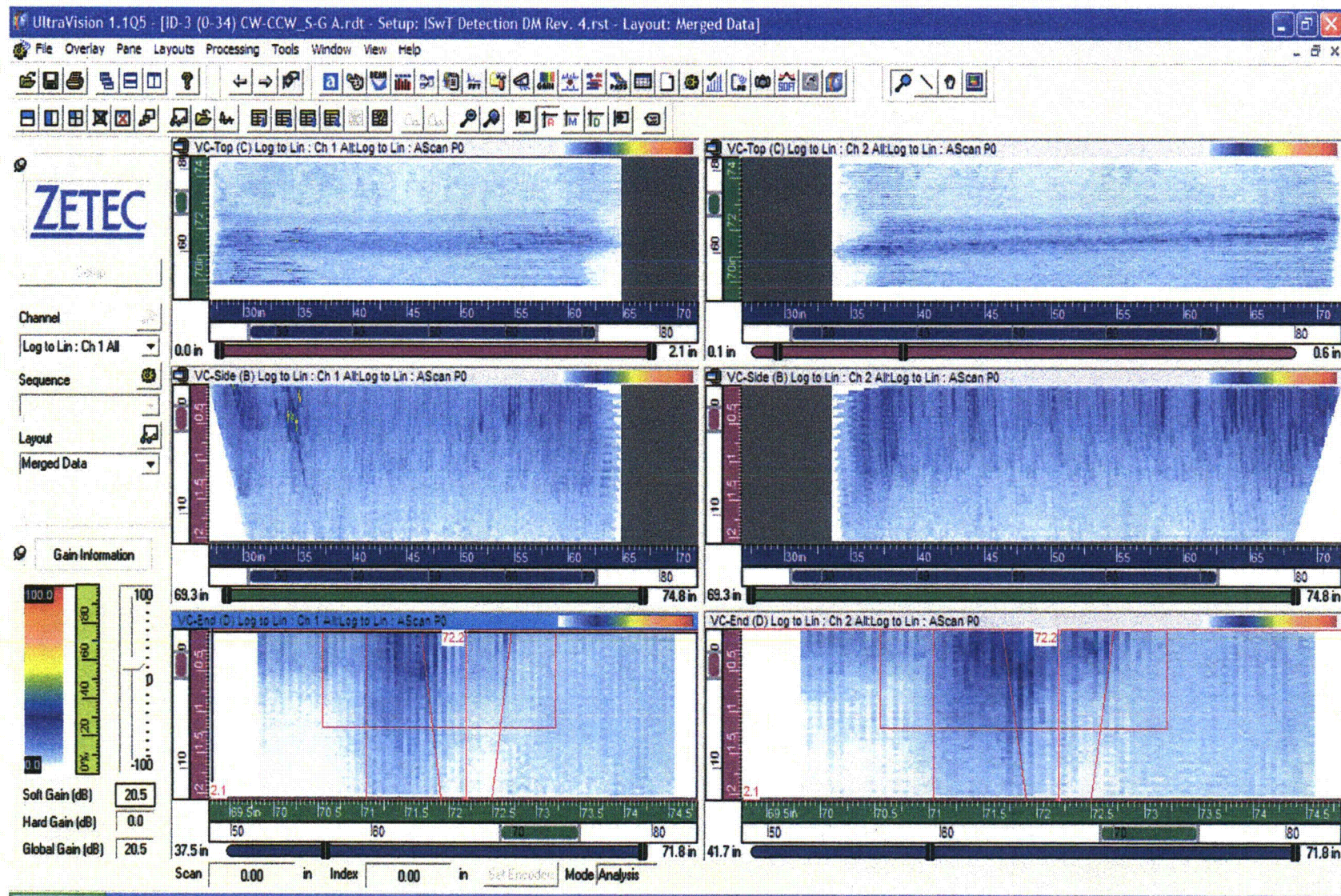
Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks	
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment:
	Start	Stop	Start	Stop					
1 - 95	71.56	76.24	0.00	33.63	Probe 1	Channel 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
						Channel 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
						Channel 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					Probe 2	Channel 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
						Channel 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
						Channel 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					Probe 3	Channel 1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
						Channel 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
						Channel 3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					ET Probe 1	Channel 1-2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					ET Probe 2	Channel 3-4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					N/A	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Analyst / SNT Level / Date:**

Jesse R. Delgado / III / 14 Nov. 2012



# ID-3 SG A Safe-End to Inlet Nozzle (Cw CCw)







# IHI SOUTHWEST TECHNOLOGIES AUTOMATED EDDY CURRENT EXAMINATION RECORD

Site/Plant:	Point Beach Unit 2	Weld Identification:	RC-34-MRCL-AL-05	Pro/Rev/Chg/ICN:	ISWT-AET3/2/0/0	Examination No.:	ID-3
Project No.:	12-0301	Weld Description:	SE-to-A S/G In Noz (0°-125°)	Device Configuration:	136-00045		
Mod.Conf.:	138-00032	Scan Path Drawing:	134-00079	Exam Date	Examination Time	Surface Temperature °F	
Data Acquisition Operator (s) / SNT Level:	William Angell / II			14-Nov-12	Start 1045	End 1137	Start 94
						End 94	

## Data Acquisition

Scan Controller Parameters		Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters	
Controller:	SG-NEXT	Lower Limit	71.56	71.56	Lower Limit	0.00	0.00	Beam Direction:	Cw/Ccw
Scan:	X Rotator Drive	Upper Limit	76.24	76.24	Upper Limit	33.63	33.63	ET Probe Size:	.24 (in)
Increment:	Y Axial Drive	Increment Interval	0.05		Resolution	0.20		Scanning Speed	1.5 inches per second
Mode:	Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans:	95
Scan Motion:	Bi-directional				Radius In.	15.38"		Weld C/L	72.262"
Correction:	N/A							Elevation/Nozzle C/L	N/A

Module Parameters:						Calibration Records:	Examination Notes:
Status	Channel(s)	Skew	Scan Offset	Step Offset			Pipe diameter = 30.83"
Probe 1	On	1-2	+ 22.5°	+5.35 (in)	-2.21 (in.)	ET-03-PTB-002	Circumference = 96.86"
Probe 2	On	3-4	- 22.5°	-5.35 (in)	-2.21 (in.)	ET-03-PTB-002	
							Examination Remarks: Saved data as (ETID 3)

## Data Analysis

Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks	
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	EXAMINATION C SCAN FOR ALL 4 CHANNELS
	Start	Stop	Start	Stop					
1-95	71.56	76.24	0.00	33.63	Probe 1 Channel 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Channel 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Channel 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 2 Channel 4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Channel 5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					Probe 3 Channel 6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					Channel 7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					Probe 4 Channel 8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

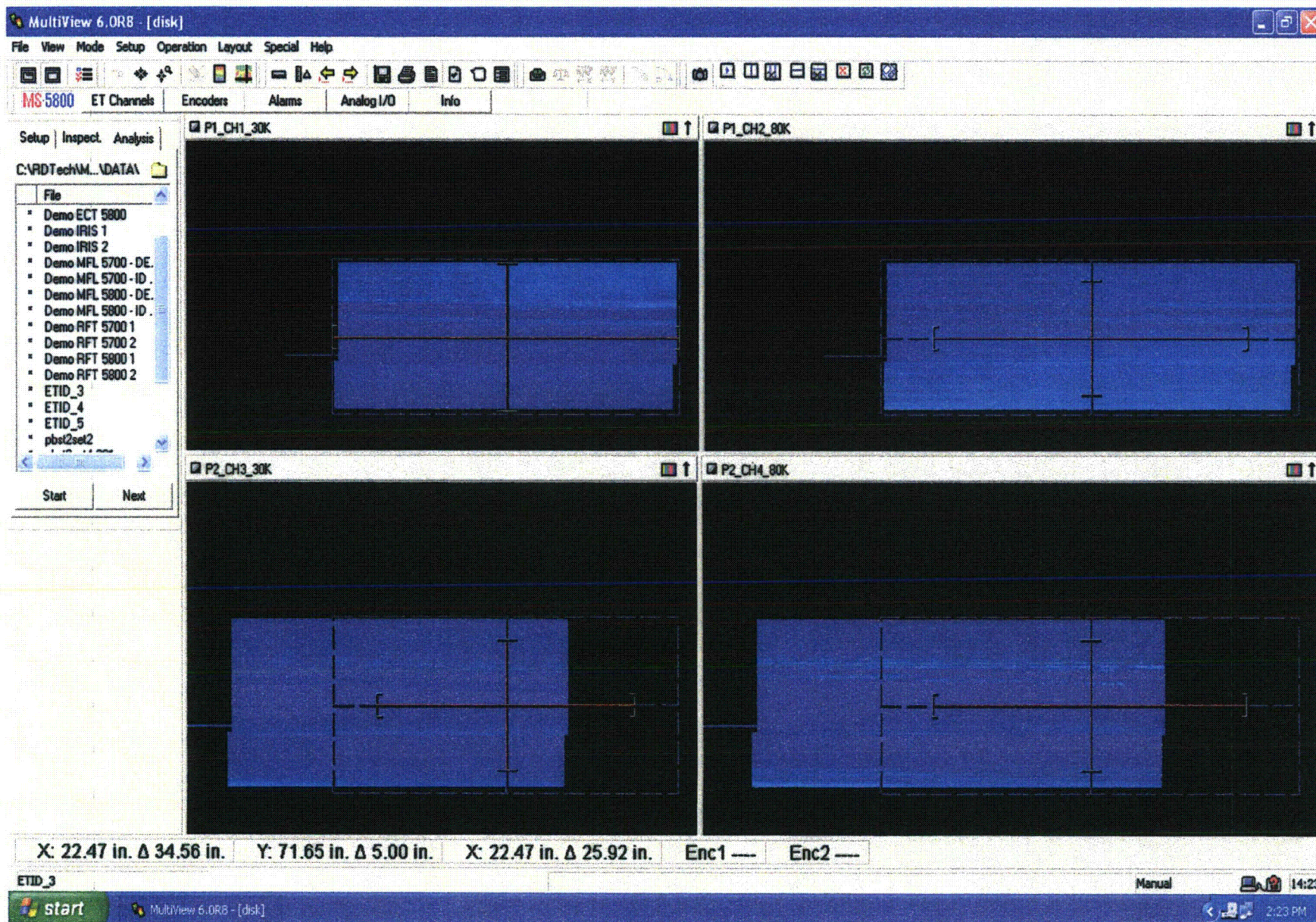
Analyst / SNT Level / Date: William Angell / II	Reviewed By/Analyst / SNT Level /Signature: David R. Kleinjan / II
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Project No. 12-0301  
Instrument S/N 879328

EXAMINATION ET-ID-3  
STATION 2

Date: 14 NOV 2012  
CALIBRATION SHEET: ET-03-PTB-002







# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

<b>Site/Plant :</b> Point Beach Unit 2	<b>Weld Identification:</b> RC-34-MRCL-AI-05	<b>Pro/Rev/Chg/ICN:</b> ISWT-PDI-AUT11/2/0/1	<b>Examination No.:</b> ID-4		
<b>Project No.:</b> 12-0301	<b>Weld Description:</b> SE-to-A S/G In Noz (120°-245°)	<b>Device Configuration:</b> 136-00045			
<b>Mod.Conf.:</b> 138-00032	<b>Scan Path Drawing:</b> 134-00079	<b>Exam Date</b>	<b>Examination Time</b>		
<b>Data Acquisition Operator (s) / SNT Level:</b> Jeremy Howe / II		14 Nov. 2012	<b>Start</b>	<b>End</b>	<b>Surface Temperature °F</b>
			1151	1232	94.4

### Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NExT	Lower Limit	71.56	71.56	Lower Limit	32.29	32.29	Beam Direction: Cw/Ccw
Scan: X Rotator Drive	Upper Limit	76.24	76.24	Upper Limit	65.92	65.92	Probe Type: PA22-001
Increment: Y Axial Drive	Inc. Interval (Resolution)	0.05		DCI (Scan Resolution)	0.05		Scanning Speed: 1.5 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 95
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/I N/A

<b>Master Acquisition File:</b> DM_Pipe_ID_0_CW_180_CCW_Skew.acq					<b>Calibration Records:</b>	<b>Examination Notes:</b>
<b>Probe</b>	<b>Channel /Angle(s)</b>	<b>Skew</b>	<b>Scan Offset</b>	<b>Step Offset</b>		Pipe Diameter = 30.83"
Probe 1	1-(60-88°L)	0°	+ 27.57(in)	- 2.21(in)	110001	Circumference = 96.86"
Probe 2	2-(60-88°L)	180°	+ 37.01(in)	- 2.21(in)	110001	
N/A	N/A	N/A	N/A	N/A	N/A	<b>Examination Remarks:</b>
ET Probe 1	1-2	+22.5°	+ 5.35(in)	+ 0.00(in)	ET03-PTB-02	
ET Probe 2	3-4	-22.5°	- 5.35(in)			

### Data Analysis

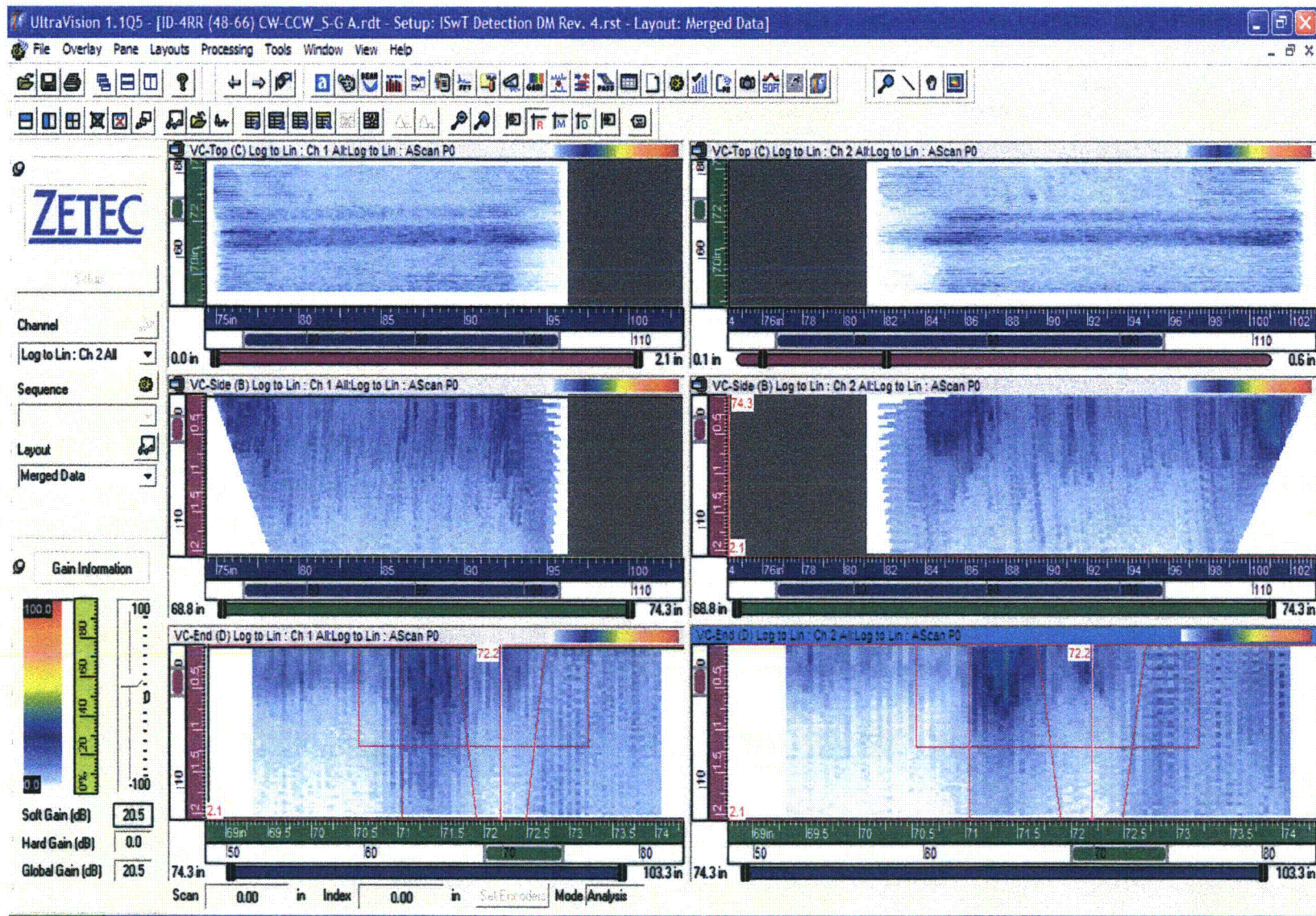
Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks	
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment:
	Start	Stop	Start	Stop					
1 - 95	71.56	76.24	32.29	65.92	Probe 1	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 2	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Archive Media: <input checked="" type="checkbox"/> External Hard Drive <input type="checkbox"/> CD-ROM <input type="checkbox"/> DVD-ROM
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 3	Channel 1 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
						Channel 2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
						Channel 3 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					ET Probe 1	Channel 1-2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					ET Probe 2	Channel 3-4 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					N/A	N/A <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

**Analyst / SNT Level / Date:**

Jesse R. Delgado / III / 14 Nov. 2012



# ID-4 SG A Safe-End to Inlet Nozzle (Cw CCw)







# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED EDDY CURRENT EXAMINATION RECORD

Site/Plant : Point Beach Unit 2	Weld Identification: RC-34-MRCL-AL-05	Pro/Rev/Chg/ICN: ISWT-AET3/2/0/0	Examination No.: ID-4	
Project No.: 12-0301	Weld Description: SE-to-A S/G In Noz (120°-245°)	Device Configuration: 136-00045		
Mod.Conf.: 138-00032	Scan Path Drawing: 134-00079	Exam Date: 14-Nov-12	Examination Time: Start 1151 End 1232	Surface Temperature °F: Start 94 End 94
Data Acquisition Operator (s) / SNT Level: William Angell / II				

### Data Acquisition

Scan Controller Parameters		Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters	
Controller:	SG-NEXT	Lower Limit	71.56	71.56	Lower Limit	32.29	32.29	Beam Direction:	Cw/Ccw
Scan:	X Rotator Drive	Upper Limit	76.24	76.24	Upper Limit	65.92	65.92	ET Probe Size:	.24 (in)
Increment:	Y Axial Drive	Increment Interval	0.05		Resolution	0.20		Scanning Speed	1.5 inches per second
Mode:	Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans:	95
Scan Motion:	Bi-directional				Radius In.	15.38"		Weld C/L	72.262"
Correction:	N/A							Elevation/Nozzle C/L	N/A

Module Parameters:						Calibration Records:	Examination Notes:
Status	Channel(s)	Skew	Scan Offset	Step Offset			Pipe diameter = 30.83"
Probe 1	On	1-2	+ 22.5°	+5.35 (in)	-2.21 (in.)	ET-03-PTB-002	Circumference = 96.86"
Probe 2	On	3-4	- 22.5°	-5.35 (in)	-2.21 (in.)	ET-03-PTB-002	
							Examination Remarks: Saved data as (ETID_4)

### Data Analysis

Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks	
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Further Evaluation Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Archive Media: <input checked="" type="checkbox"/> External Hard Drive <input type="checkbox"/> CD-ROM <input type="checkbox"/> DVD-ROM
	Start	Stop	Start	Stop					
1-95	71.56	76.24	32.29	65.92	Probe 1 Channel 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EXAMINATION C SCAN FOR ALL 4 CHANNELS
					Channel 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Interface of Stainless Steel Clad to Inconel 52 & 152 at
					Probe 2 Channel 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	69.80" and Inconel 52 & 152 to Safe End located at 72.60"
					Channel 4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 3 Channel 5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					Channel 6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					Probe 4 Channel 7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					Channel 8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Analyst / SNT Level / Date:  
William Angell / II

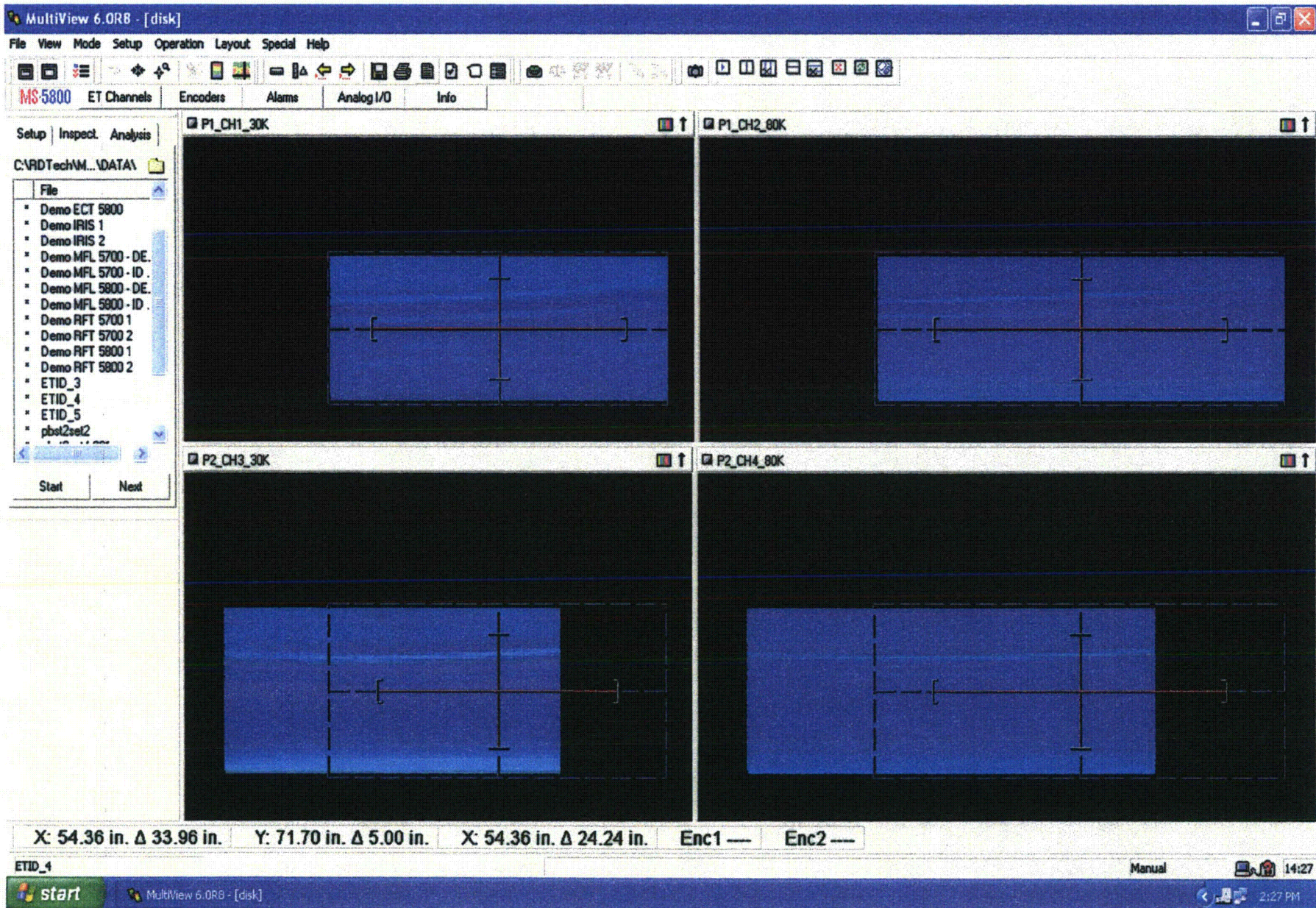
Reviewed By/Analyst / SNT Level/Signature:  
David R. Kleinjan / II



Project No. 12-0301  
Instrument S/N 879328

EXAMINATION ET-ID-4  
STATION 2

Date: 14 NOV 2012  
CALIBRATION SHEET: ET-03-PTB-002







# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

<b>Site/Plant :</b> Point Beach Unit 2	<b>Weld Identification:</b> RC-34-MRCL-AI-05	<b>Pro/Rev/Chg/ICN:</b> ISwT-PDI-AUT11/2/0/1	<b>Examination No.:</b> ID-4RR				
<b>Project No.:</b> 12-0301	<b>Weld Description:</b> SE-to-A S/G In Noz (120°-245°)	<b>Device Configuration:</b> 136-00045					
<b>Mod.Conf.:</b> 138-00032	<b>Scan Path Drawing:</b> 134-00079	<b>Exam Date</b>	<b>Examination Time</b>				
<b>Data Acquisition Operator (s) / SNT Level:</b> Jeremy Howe / II		14 Nov. 2012	<table><tr><td><b>Start</b></td><td><b>End</b></td></tr><tr><td>1151</td><td>1232</td></tr></table>	<b>Start</b>	<b>End</b>	1151	1232
<b>Start</b>	<b>End</b>						
1151	1232						
		<b>Surface Temperature °F</b>					
		<b>Start</b>	<b>End</b>				
		94.4	94.4				

### Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NExT	Lower Limit	71.56	71.56	Lower Limit	32.29	48.00	Beam Direction: Cw/Ccw
Scan: X Rotator Drive	Upper Limit	76.24	76.24	Upper Limit	65.92	66.00	Probe Type: PA22-001
Increment: Y Axial Drive	Inc. Interval (Resolution)	0.05		DCI (Scan Resolution)	0.05		Scanning Speed: 1.5 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 95
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/L N/A

<b>Master Acquisition File:</b> DM_Pipe_ID_0_CW_180_CCW_Skew.acq					<b>Calibration Records:</b>	<b>Examination Notes:</b>
Probe	Channel /Angle(s)	Skew	Scan Offset	Step Offset		Pipe Diameter = 30.83"
Probe 1	1-(60-88°L)	0°	+ 27.57(in)	- 2.21(in)	110001	Circumference = 96.86"
Probe 2	2-(60-88°L)	180°	+ 37.01(in)	- 2.21(in)	110001	
N/A	N/A	N/A	N/A	N/A	N/A	<b>Examination Remarks:</b>
ET Probe 1	1-2	+22.5°	+ 5.35(in)	+ 0.00(in)	ET03-PTB-02	
ET Probe 2	3-4	-22.5°	- 5.35(in)			

### Data Analysis

Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks	
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment:
	Start	Stop	Start	Stop		Channel 1	Channel 2	Channel 3	
1 - 95	71.56	76.24	48.00	66.00	Probe 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation Required:
						<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Archive Media:
						<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> External Hard Drive
						<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					ET Probe 1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> CD-ROM
					ET Probe 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> DVD-ROM
					N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<b>Analyst / SNT Level / Date:</b> Jesse R. Delgado / III / 14 Nov. 2012
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# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

<b>Site/Plant :</b> Point Beach Unit 2	<b>Weld Identification:</b> RC-34-MRCL-AI-05	<b>Pro/Rev/Chg/ICN:</b> ISWT-PDI-AUT11/2/0/1	<b>Examination No.:</b> ID-5		
<b>Project No.:</b> 12-0301	<b>Weld Description:</b> SE-to-A S/G In Noz (240°-365°)	<b>Device Configuration:</b> 136-00045			
<b>Mod.Conf.:</b> 138-00032	<b>Scan Path Drawing:</b> 134-00079	<b>Exam Date</b>	<b>Examination Time</b>		
<b>Data Acquisition Operator (s) / SNT Level:</b> Jeremy Howe / II		14 Nov. 2012	<b>Start</b>	<b>End</b>	<b>Surface Temperature °F</b>
			1240	1321	Start
				94.4	94.4

### Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NExT	Lower Limit	70.75	70.75	Lower Limit	64.57	64.57	Beam Direction: Cw/Ccw
Scan: X Rotator Drive	Upper Limit	76.24	76.24	Upper Limit	98.20	98.20	Probe Type: PA22-001
Increment: Y Axial Drive	Inc. Interval (Resolution)	0.05		DCI (Scan Resolution)	0.05		Scanning Speed: 1.5 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 111
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/I N/A

<b>Master Acquisition File:</b> DM_Pipe_ID_0_CW_180_CCW_Skew.acq					<b>Calibration Records:</b>	<b>Examination Notes:</b>
<b>Probe</b>	<b>Channel / Angle(s)</b>	<b>Skew</b>	<b>Scan Offset</b>	<b>Step Offset</b>		Pipe Diameter = 30.83"
Probe 1	1-(60-88°L)	0°	+ 27.57(in)	- 2.21(in)	110001	Circumference = 96.86"
Probe 2	2-(60-88°L)	180°	+ 37.01(in)	- 2.21(in)	110001	
N/A	N/A	N/A	N/A	N/A	N/A	<b>Examination Remarks:</b>
ET Probe 1	1-2	+22.5°	+ 5.35(in)	+ 0.00(in)	ET03-PTB-02	
ET Probe 2	3-4	-22.5°	- 5.35(in)			

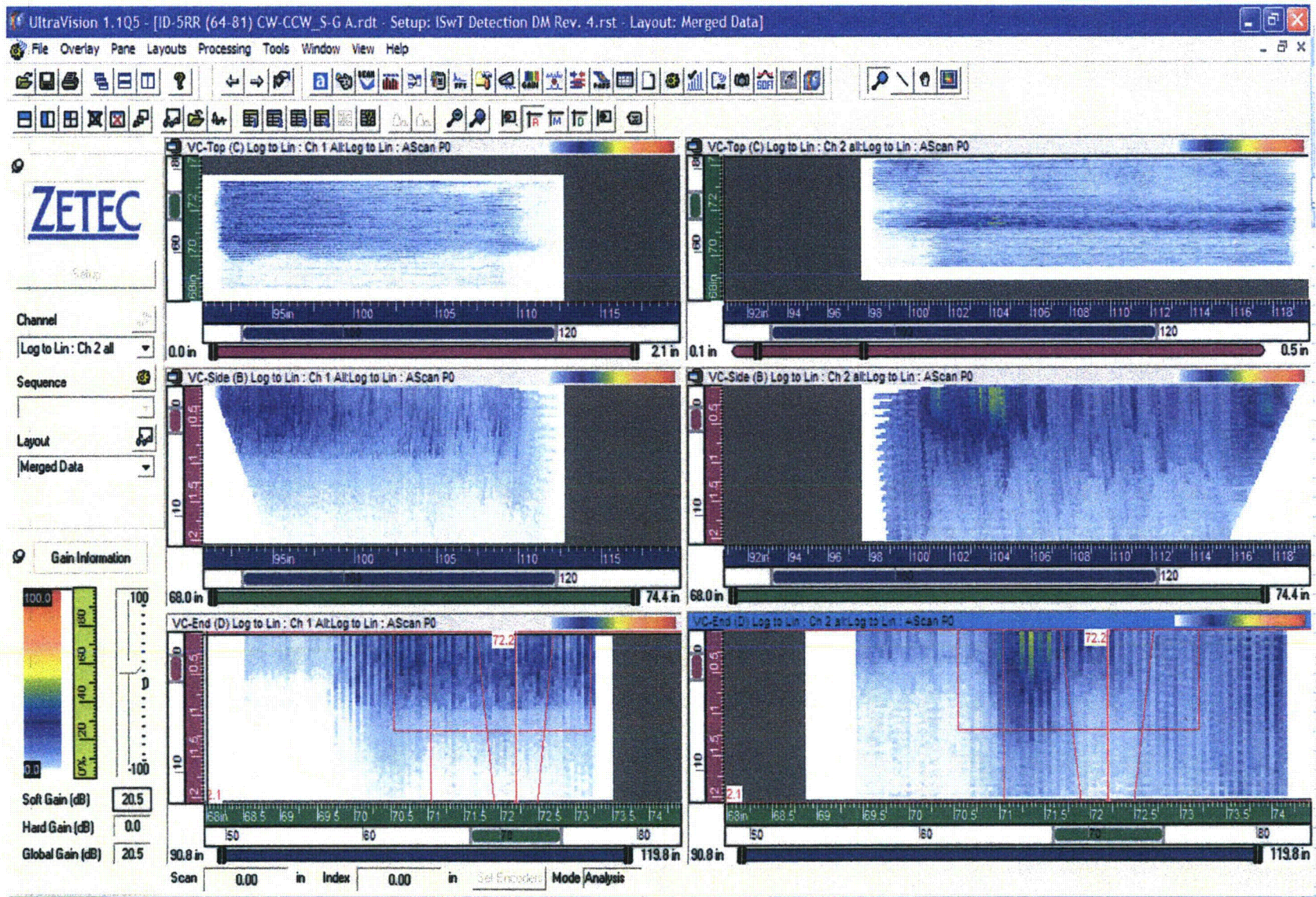
### Data Analysis

Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks	
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment:
	Start	Stop	Start	Stop					
1 - 111	70.75	76.24	64.57	98.20	Probe 1	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 2	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 3	Channel 1 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Archive Media: <input checked="" type="checkbox"/> External Hard Drive
						Channel 2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
						Channel 3 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					ET Probe 1	Channel 1-2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> CD-ROM <input type="checkbox"/> DVD-ROM
					ET Probe 2	Channel 3-4 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					N/A	N/A <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<b>Analyst / SNT Level / Date:</b>	Jesse R. Delgado / III / 14 Nov. 2012	
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# ID-5 SG A Safe-End to Inlet Nozzle (Cw CCw)







# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED EDDY CURRENT EXAMINATION RECORD

Site/Plant : Point Beach Unit 2	Weld Identification: RC-34-MRCL-AL-05	Pro/Rev/Chg/ICN: ISWT-AET3/2/0/0	Examination No.: ID-5
Project No.: 12-0301	Weld Description: SE-to-A S/G In Noz (240°-365°)	Device Configuration: 136-00045	
Mod.Conf.: 138-00032	Scan Path Drawing: 134-00079	Exam Date: 14-Nov-12	Examination Time: Start 1240 End 1321
Data Acquisition Operator (s) / SNT Level: William Angell / II			Surface Temperature °F: Start 94 End 94

### Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NEXt	Lower Limit	70.75	70.75	Lower Limit	64.57	64.57	Beam Direction: Cw/Ccw
Scan: X Rotator Drive	Upper Limit	76.24	76.24	Upper Limit	98.20	98.20	ET Probe Size: .24 (in)
Increment: Y Axial Drive	Increment Interval	0.05		Resolution	0.20		Scanning Speed: 1.5 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 111
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.26
Correction: N/A							Elevation/Nozzle C/L: N/A

Module Parameters:	Status	Channel(s)	Skew	Scan Offset	Step Offset	Calibration Records:	Examination Notes:
Probe 1	On	1-2	+ 22.5°	+5.35 (in)	-2.21 (in.)	ET-03-PTB-002	Pipe diameter = 30.83"
Probe 2	On	3-4	- 22.5°	-5.35 (in)	-2.21 (in.)	ET-03-PTB-002	Circumference = 96.86"
							Examination Remarks: Saved data as (ETID 5)

### Data Analysis

Increment & Scan Positions Actual	Recordable Indications	Analyst Remarks
Scan No.(s)	Yes No N/A	
Start Stop Start Stop		EXAMINATION C SCAN FOR ALL 4 CHANNELS
1-111 70.75 76.24 64.57 98.20	Probe 1 Channel 1 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Probe 1 Channel 2 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Further Evaluation Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Probe 1 Channel 3 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Archive Media: <input checked="" type="checkbox"/> External Hard Drive
	Probe 2 Channel 4 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> CD-ROM
	Probe 3 Channel 5 <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> DVD-ROM
	Probe 3 Channel 6 <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
	Probe 4 Channel 7 <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
	Probe 4 Channel 8 <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	

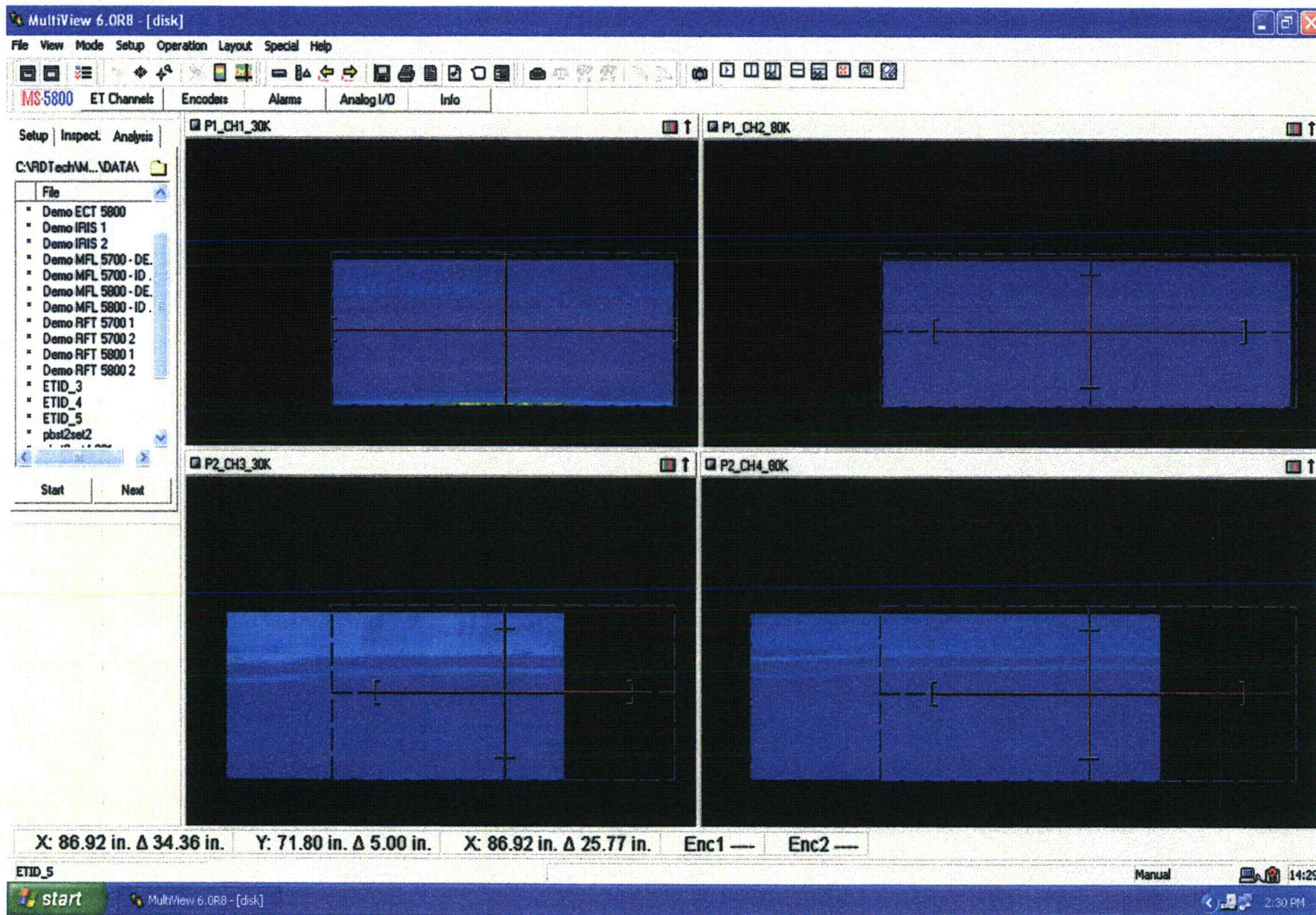
Analyst / SNT Level / Date: William Angell / II	Reviewed By/Analyst / SNT Level /Signature: David R. Kleinjan / II
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Project No. 12-0301  
Instrument S/N 879328

EXAMINATION ET-ID-5  
STATION 2

Date: 14 NOV 2012  
CALIBRATION SHEET: ET-03-PTB-002







# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

Site/Plant : Point Beach Unit 2	Weld Identification: RC-34-MRCL-AI-05	Pro/Rev/Chg/ICN: ISWT-PDI-AUT11/2/0/1	Examination No.: ID-5RR
Project No.: 12-0301	Weld Description: SE-to-A S/G In Noz (240°-365°)	Device Configuration: 136-00045	
Mod.Conf.: 138-00032	Scan Path Drawing: 134-00079	Exam Date: 14 Nov. 2012	Examination Time: Start 1240, End 1321
Data Acquisition Operator (s) / SNT Level: Jeremy Howe / II			Surface Temperature °F: Start 94.4, End 94.4

### Data Acquisition

Scan Controller Parameters		Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters	
Controller:	SG-NExT	Lower Limit	70.75	70.75	Lower Limit	64.57	64.00	Beam Direction:	Cw/Ccw
Scan:	X Rotator Drive	Upper Limit	76.24	76.24	Upper Limit	98.20	81.00	Probe Type:	PA22-001
Increment:	Y Axial Drive	Inc. Interval (Resolution)	0.05		DCI (Scan Resolution)	0.05		Scanning Speed:	1.5 inches per second
Mode:	Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans:	111
Scan Motion:	Bi-directional				Radius In.	15.38"		Weld C/L:	72.262"
Correction:	N/A							Elevation/Nozzle C/I	N/A

Master Acquisition File: DM_Pipe_ID_0_CW_180_CCW_Skew.acq					Calibration Records:	Examination Notes: Pipe Diameter = 30.83" Circumference = 96.86"
Probe	Channel /Angle(s)	Skew	Scan Offset	Step Offset		
Probe 1	1-(60-88°L)	0°	+ 27.57(in)	- 2.21(in)	110001	
Probe 2	2-(60-88°L)	180°	+ 37.01(in)	- 2.21(in)	110001	
N/A	N/A	N/A	N/A	N/A	N/A	Examination Remarks:
ET Probe 1	1-2	+22.5°	+ 5.35(in)	+ 0.00(in)	ET03-PTB-02	
ET Probe 2	3-4	-22.5°	- 5.35(in)			

### Data Analysis

Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks		
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Start	Stop	Start	Stop		Channel 1	Channel 2	Channel 3		
1 - 111	70.75	76.24	64.00	81.00	Probe 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
					Channel 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
					Channel 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
					Probe 2	Channel 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 3	Channel 1	<input type="checkbox"/>	<input type="checkbox"/>	Archive Media: <input checked="" type="checkbox"/> External Hard Drive <input type="checkbox"/> CD-ROM <input type="checkbox"/> DVD-ROM	
						Channel 2	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
						Channel 3	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
					ET Probe 1	Channel 1-2	<input type="checkbox"/>	<input type="checkbox"/>		
					ET Probe 2	Channel 3-4	<input type="checkbox"/>	<input type="checkbox"/>		
					N/A	N/A	<input type="checkbox"/>	<input type="checkbox"/>		

Analyst / SNT Level / Date:

Jesse R. Delgado / III / 14 Nov. 2012





## IHI Southwest Technologies Examination Summary Record

Utility: NextEra Energy		Site: Point Beach Nuclear Plant Unit 2 Outage: U2R32			Summary Sheet No. 00200		
System: Steam Generator		Line Subassembly: Safe End to "B" SG In Noz			Identification: RC-34-MRCL-BI-05		
NDE Method	Proc/Rev/Chg/ICN	NDE Examination	Calibrationsheet No's.	Exam Sheet No.	NRI	Other	Remarks
AUT	ISwT-PDI-AUT11/2/0/1	UT Probe 1 (60-88")	110004	11 - 12	X	-	UT TWD & AWY Exam
AUT	ISwT-PDI-AUT11/2/0/1	UT Probe 2 (60-88")	110004	11 - 12	X	-	UT TWD & AWY Exam
AUT	ISwT-PDI-AUT11/2/0/1	UT Probe 1 (60-88")	110003	13 - 15	X	-	UT CW & CCW Exam
AUT	ISwT-PDI-AUT11/2/0/1	UT Probe 2 (60-88")	110003	13 - 15	X	-	UT CW & CCW Exam
AET	ISwT-PDI-AET3/2/0/0	ET Probe 1	ET03-PTB-001	13 - 15	X	-	Eddy Current Exam
AET	ISwT-PDI-AET3/2/0/0	ET Probe 2	ET03-PTB-001	13 - 15	X	-	Eddy Current Exam

### Examination Summary:

This weld was examined from the inside surface using SG-NExT, T-III, & MS5800 examination equipment.  
The examination coverage was 100%.

Prepared By: Steven J. Todd			
Signature: <i>Steven J. Todd</i>	Date: 11/22/12		
ISwT Project Manager			
Reviewed By: <i>William A. Janson</i>		Reviewed By: <i>Jeff Butkowski</i>	
Signature: <i>William A. Janson</i>	Date: 11-23-12	Signature: <i>Jeff Butkowski</i>	Date: 11/28/12
NextEra Energy Point Beach		ANII	





# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

<b>Site/Plant :</b> Point Beach Unit 2	<b>Weld Identification:</b> RC-34-MRCL-BI-05	<b>Pro/Rev/Chg/ICN:</b> ISWT-PDI-AUT11/2/0/1	<b>Examination No.:</b> ID-11		
<b>Project No.:</b> 12-0301	<b>Weld Description:</b> SE-to-B S/G In Noz (0°-185°)	<b>Device Configuration:</b> 136-00045			
<b>Mod.Conf.:</b> 138-00032	<b>Scan Path Drawing:</b> 134-00079	<b>Exam Date</b>	<b>Examination Time</b>		
<b>Data Acquisition Operator (s) / SNT Level:</b> Bryan Wright / II		18 Nov. 2012	<b>Start</b>	<b>End</b>	<b>Surface Temperature °F</b>
			1750	1820	94

### Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NExT	Lower Limit	70.75	70.75	Lower Limit	0.00	0.00	Beam Direction: Twd/Awy
Scan: X Rotator Drive	Upper Limit	80.35	80.35	Upper Limit	49.77	49.77	Probe Type: PA22-001
Increment: Y Axial Drive	Inc. Interval (Resolution)	0.15		DCI (Scan Resolution)	0.10		Scanning Speed: 2.0 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 65
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/I N/A

<b>Master Acquisition File:</b> DM_Pipe_ID_90_AWY_270_TWD_Skew.acq					<b>Calibration Records:</b>	<b>Examination Notes:</b>
<b>Probe</b>	<b>Channel /Angle(s)</b>	<b>Skew</b>	<b>Scan Offset</b>	<b>Step Offset</b>		
Probe 1	1-(60-88°L)	90°	+ 69.92(in)	- 1.52(in)	110004	Pipe Diameter = 30.83"
Probe 2	2-(60-88°L)	270°	+ 59.22(in)	- 2.90(in)	110004	Circumference = 96.86"
Probe 3	3-(0°Profilometry)	0°	+ 0.00(in)	+ 0.00(in)	110004	<b>Examination Remarks:</b>
N/A	N/A	N/A	N/A	N/A	N/A	

### Data Analysis

Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks	
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment:
	Start	Stop	Start	Stop					
1-65	70.75	80.35	0.00	49.77	Probe 1	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation Required:
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 2	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 3	Channel 1 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
						Channel 2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Archive Media:
						Channel 3 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					ET Probe 1	Channel 1-2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					ET Probe 2	Channel 3-4 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> CD-ROM <input type="checkbox"/> DVD-ROM
					N/A	N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<b>Analyst / SNT Level / Date:</b>	Richard A. Riddles / III / 18 Nov. 2012	
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# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

<b>Site/Plant :</b> Point Beach Unit 2	<b>Weld Identification:</b> RC-34-MRCL-BI-05	<b>Pro/Rev/Chg/ICN:</b> ISwT-PDI-AUT11/2/0/1	<b>Examination No.:</b> ID-12		
<b>Project No.:</b> 12-0301	<b>Weld Description:</b> SE-to-B S/G In Noz (180°-365°)	<b>Device Configuration:</b> 136-00045			
<b>Mod.Conf.:</b> 138-00032	<b>Scan Path Drawing:</b> 134-00079	<b>Exam Date</b>	<b>Examination Time</b>		
<b>Data Acquisition Operator (s) / SNT Level:</b> Bryan Wright / II		18 Nov. 2012	<b>Start</b>	<b>End</b>	<b>Surface Temperature °F</b>
			1821	1850	94

### Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NEXT	Lower Limit	70.75	70.75	Lower Limit	48.43	48.43	Beam Direction: Twd/Awy
Scan: X Rotator Drive	Upper Limit	80.35	80.35	Upper Limit	98.20	98.20	Probe Type: PA22-001
Increment: Y Axial Drive	Inc. Interval (Resolution)	0.15		DCI (Scan Resolution)	0.10		Scanning Speed: 2.0 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 65
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/I: N/A

Master Acquisition File: DM_Pipe_ID_90_AWY_270_TWD_Skew.acq					Calibration Records:	Examination Notes:
Probe	Channel /Angle(s)	Skew	Scan Offset	Step Offset		
Probe 1	1-(60-88°L)	90°	+ 69.92(in)	- 1.52(in)	110004	Pipe Diameter = 30.83"
Probe 2	2-(60-88°L)	270°	+ 59.22(in)	- 2.90(in)	110004	Circumference = 96.86"
Probe 3	3-(0°Profilometry)	0°	+ 0.00(in)	+ 0.00(in)	110004	<b>Examination Remarks:</b>
N/A	N/A	N/A	N/A	N/A	N/A	

### Data Analysis

Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks		
Scan No.(s)	Increment Position		Scan Position				Yes	No	N/A	Attachment:
	Start	Stop	Start	Stop						
1-65	70.75	80.35	48.43	98.20	Probe 1	Channel 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
						Channel 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 2	Channel 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
						Channel 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 3	Channel 1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Archive Media: <input checked="" type="checkbox"/> External Hard Drive
						Channel 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
						Channel 3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					ET Probe 1	Channel 1-2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> CD-ROM <input type="checkbox"/> DVD-ROM
					ET Probe 2	Channel 3-4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					N/A	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<b>Analyst / SNT Level / Date:</b>	Richard A. Riddles / III / 18 Nov. 2012	
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# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

<b>Site/Plant :</b> Point Beach Unit 2	<b>Weld Identification:</b> RC-34-MRCL-BI-05	<b>Pro/Rev/Chg/ICN:</b> ISWT-PDI-AUT11/2/0/1	<b>Examination No.:</b> ID-13
<b>Project No.:</b> 12-0301	<b>Weld Description:</b> SE-to-B S/G In Noz (0°-125°)	<b>Device Configuration:</b> 136-00045	
<b>Mod.Conf.:</b> 138-00032	<b>Scan Path Drawing:</b> 134-00079	<b>Exam Date</b>	<b>Examination Time</b>
<b>Data Acquisition Operator (s) / SNT Level:</b> Bryan Wright / II		18 Nov. 2012	
		<b>Start</b> 1433	<b>End</b> 1534
		<b>Surface Temperature °F</b>	
		<b>Start</b> 94	<b>End</b> 94

### Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NExT	Lower Limit	71.56	71.56	Lower Limit	0.00	0.00	Beam Direction: Cw/Ccw
Scan: X Rotator Drive	Upper Limit	76.24	76.24	Upper Limit	33.63	33.63	Probe Type: PA22-001
Increment: Y Axial Drive	Inc. Interval (Resolution)	0.05		DCI (Scan Resolution)	0.05		Scanning Speed: 1.5 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 95
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/I: N/A

<b>Master Acquisition File:</b> DM_Pipe_ID_0_CW_180_CCW_Skew.acq					<b>Calibration Records:</b>	<b>Examination Notes:</b> Pipe Diameter = 30.83" Circumference = 96.86"
<b>Probe</b>	<b>Channel /Angle(s)</b>	<b>Skew</b>	<b>Scan Offset</b>	<b>Step Offset</b>		
Probe 1	1-(60-88°L)	0°	+ 27.57(in)	- 2.21(in)	110003	
Probe 2	2-(60-88°L)	180°	+ 37.01(in)	- 2.21(in)	110003	
N/A	N/A	N/A	N/A	N/A	N/A	<b>Examination Remarks:</b>
ET Probe 1	1-2	+22.5°	+ 5.35(in)	+ 0.00(in)	ET03-PTB-01	
ET Probe 2	3-4	-22.5°	- 5.35(in)			

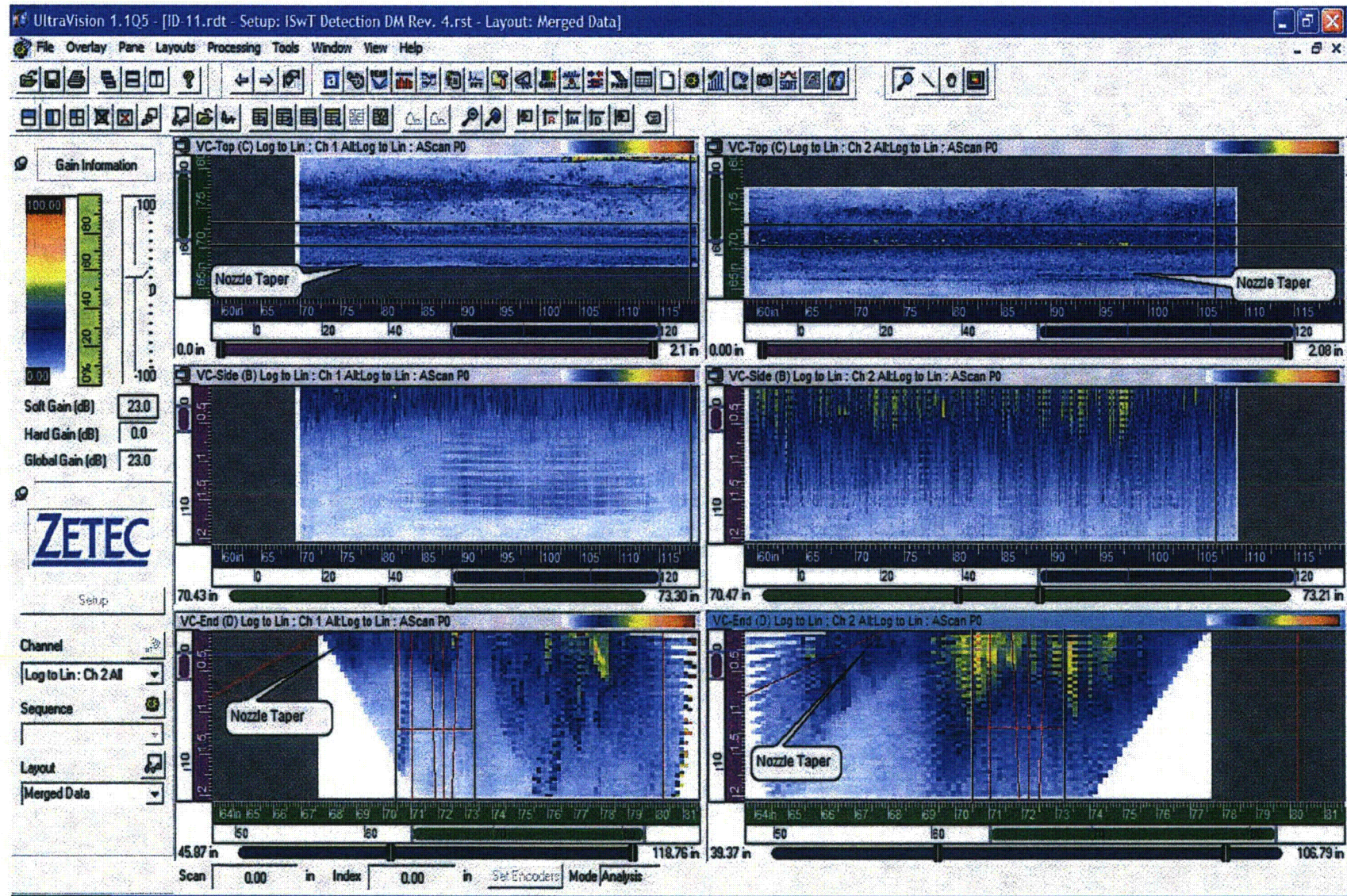
### Data Analysis

Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks	
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment:
	Start	Stop	Start	Stop					
1 - 95	71.56	76.24	0.00	33.63	Probe 1	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 2	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					Probe 3	Channel 1 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> External Hard Drive
						Channel 2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
						Channel 3 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					ET Probe 1	Channel 1-2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> CD-ROM <input type="checkbox"/> DVD-ROM
					ET Probe 2	Channel 3-4 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					N/A	N/A <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<b>Analyst / SNT Level / Date:</b>	Richard A. Riddles / III / 18 Nov. 2012	
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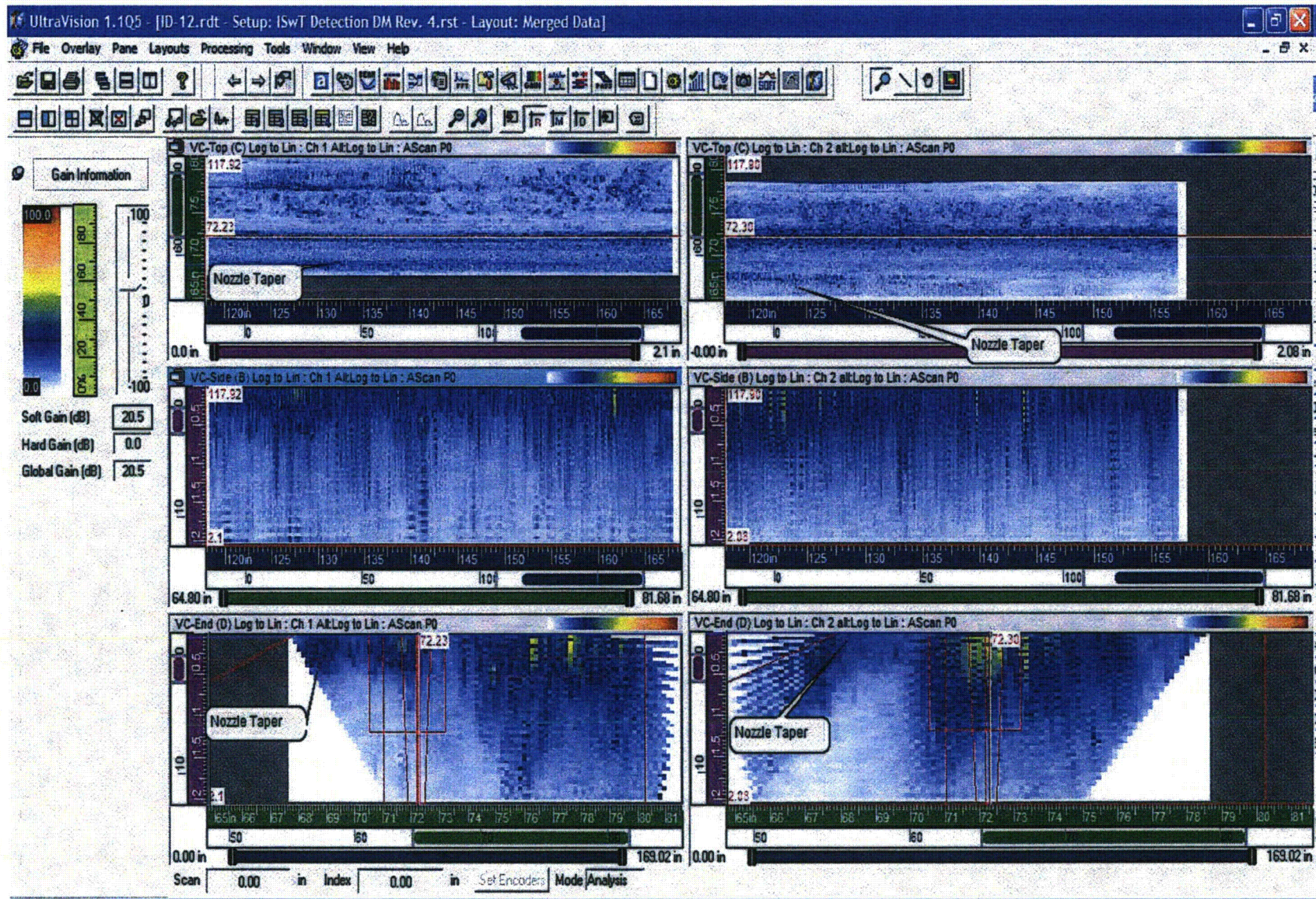


# ID-11 SG B Safe-End to Inlet Nozzle (Away Towards)



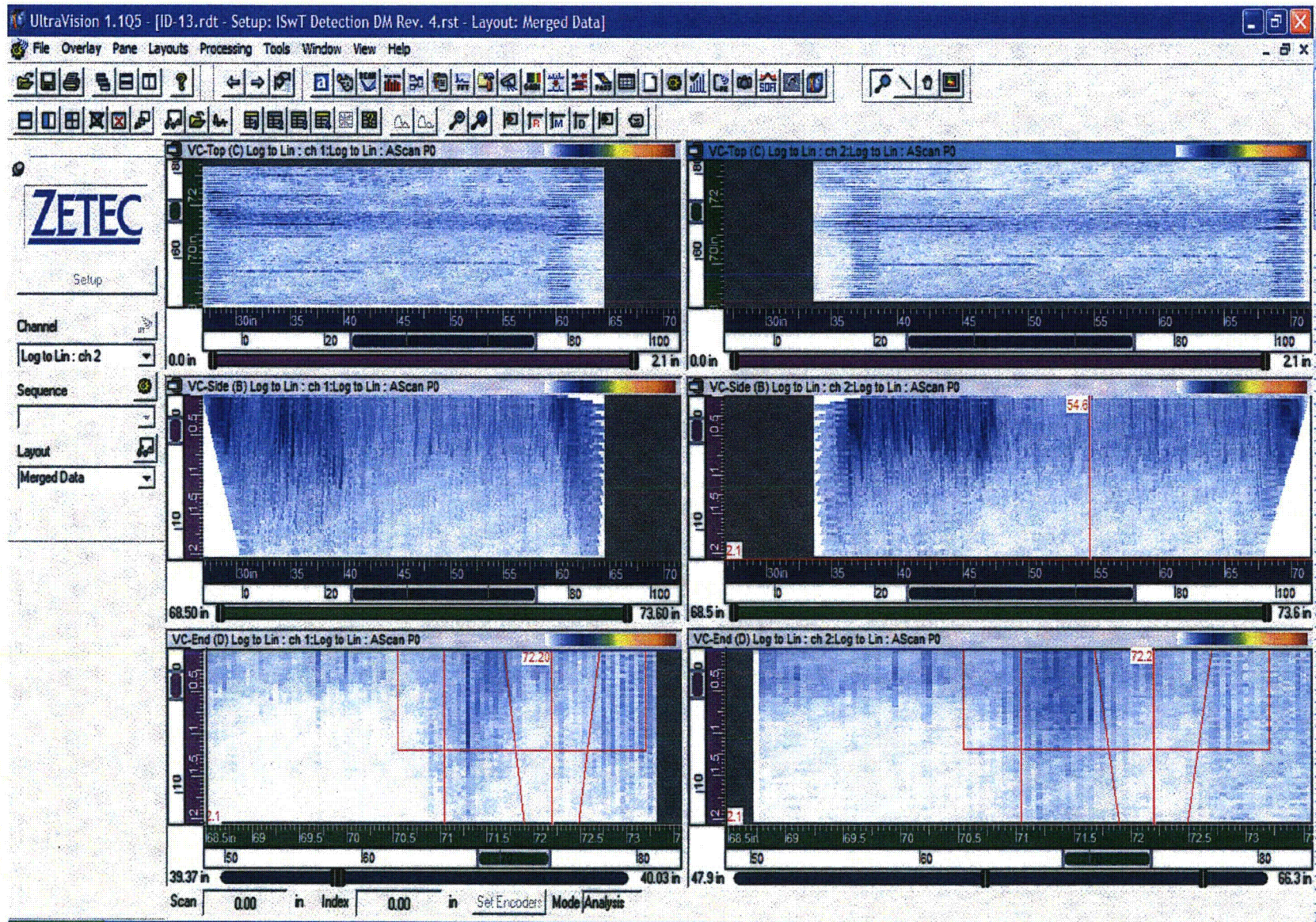


# ID-12 SG B Safe-End to Inlet Nozzle (Away Towards)



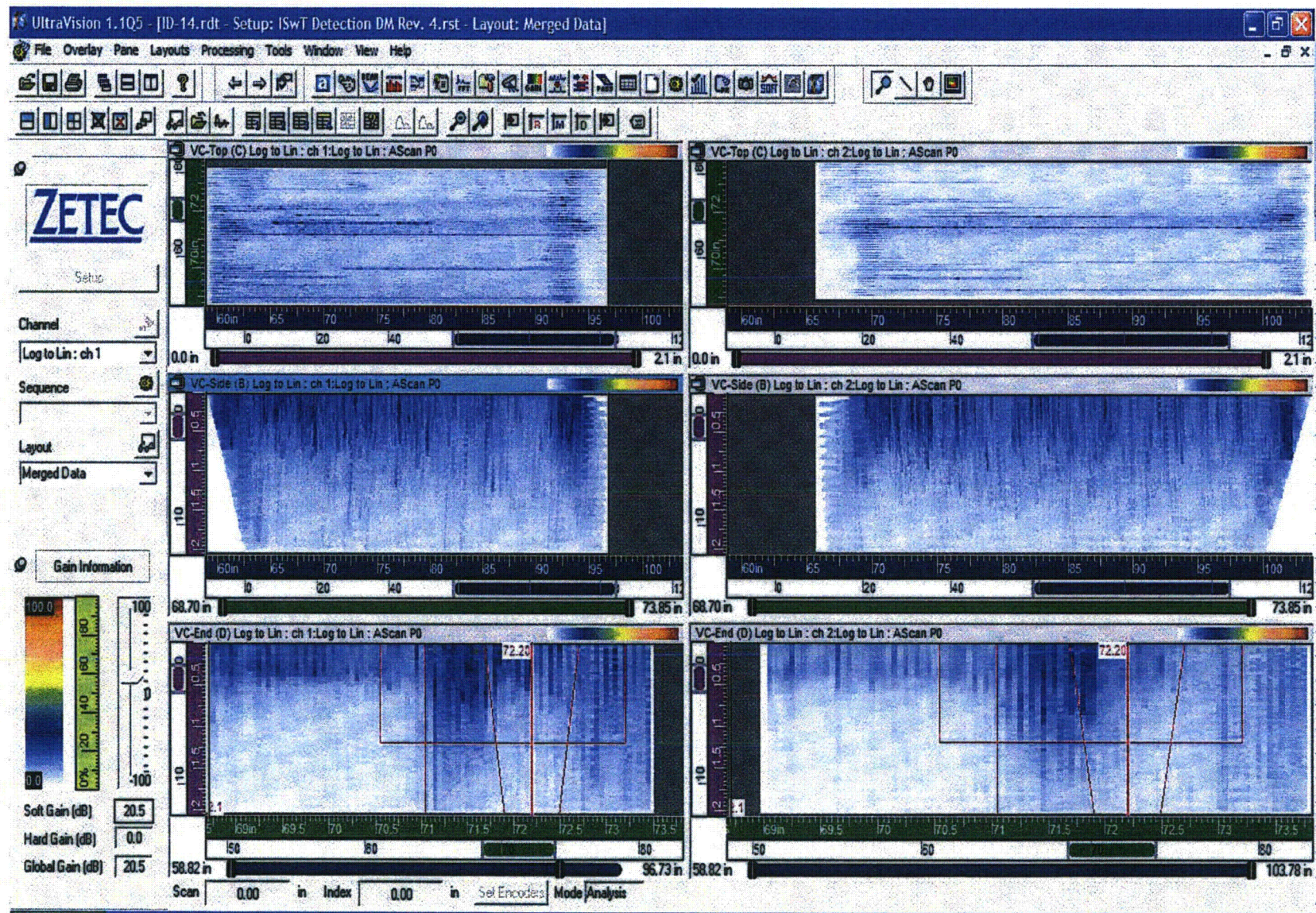


# ID-13 SG B Safe-End to Inlet Nozzle (Cw CCw)



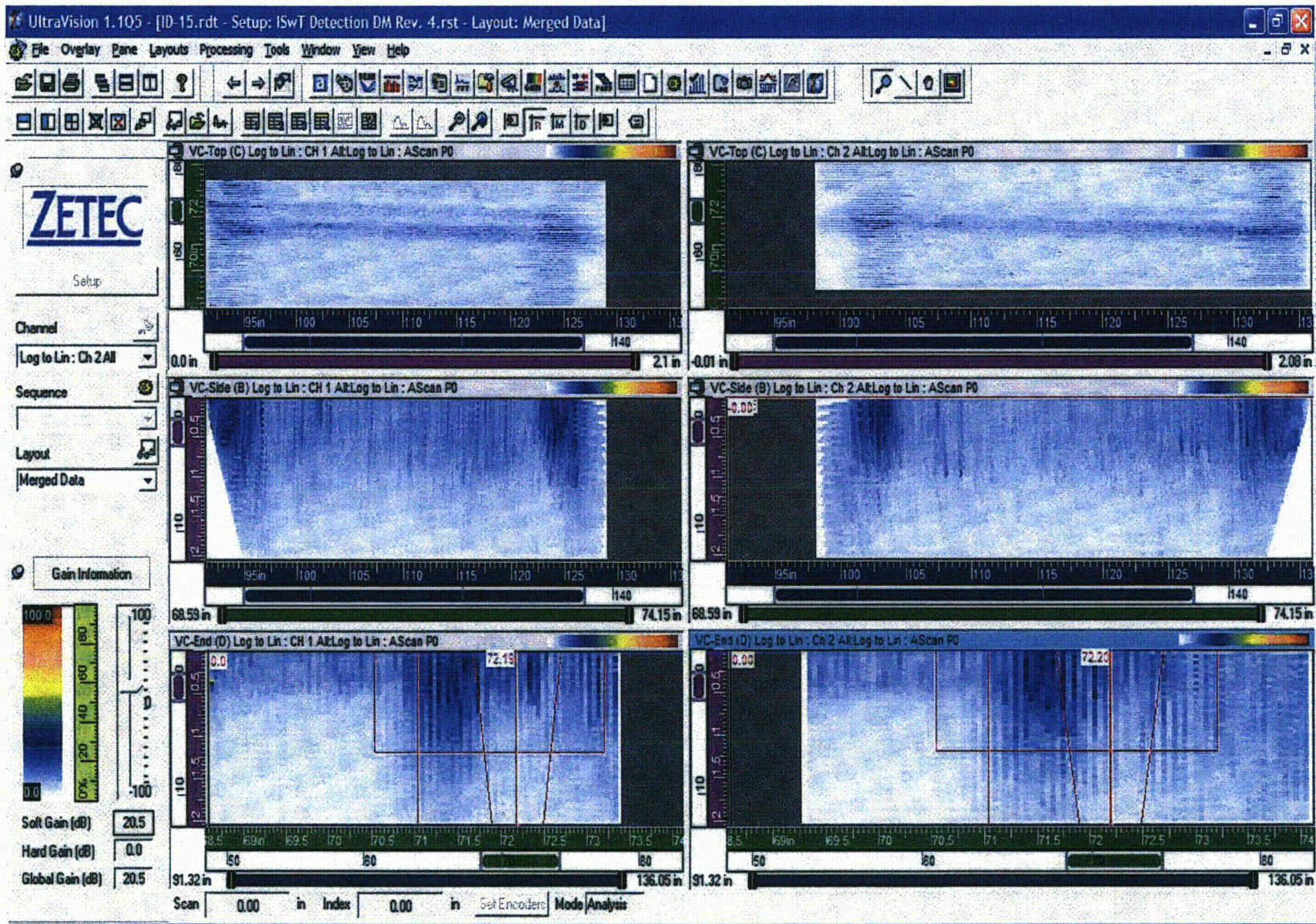


# ID-14 SG B Safe-End to Inlet Nozzle (Cw CCw)





# ID-15 SG B Safe-End to Inlet Nozzle (Cw CCw)







Site/Plant :	Point Beach Unit 2	Weld Identification:	RC-34-MRCL-BI-05	Pro/Rev/Chg/ICN:	ISWT-AET32/0/0	Examination No.:		ID-13
Project No.:	12-0301	Weld Description:	SE-to-B S/G In Noz (0°-125°)	Device Configuration:	136-00045			
Mod.Conf.:	138-00032	Scan Path Drawing:	134-00079	Exam Date	Examination Time		Surface Temperature °F	
Data Acquisition Operator (s) / SNT Level:		David R. Kleinjan / II		17-Nov-12	Start	End	Start	End
					1433	1534	94	94

### Data Acquisition

Scan Controller Parameters		Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters	
Controller:	SG-NExT	Lower Limit	71.56	71.56	Lower Limit	0.00	0.00	Beam Direction:	Cw/Ccw
Scan:	X Rotator Drive	Upper Limit	76.24	76.24	Upper Limit	33.63	33.63	ET Probe Size:	.24 (in)
Increment:	Y Axial Drive	Increment Interval	0.05		Resolution	0.20		Scanning Speed	1.5 inches per second
Mode:	Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans:	95
Scan Motion:	Bi-directional				Radius In.	15.38"		Weld C/L	72.262"
Correction:	N/A							Elevation/Nozzle C/L	N/A

**Module Parameters:**

	Status	Channel(s)	Skew	Scan Offset	Step Offset		Pipe diameter = 30.83"
Probe 1	On	1-2	+ 22.5°	+5.35 (in)	-2.21 (in.)	ET-03-PTB-001	Circumference = 96.86"
Probe 2	On	3-4	- 22.5°	-5.35 (in)	-2.21 (in.)	ET-03-PTB-001	

**Calibration Records:****Examination Notes:**

Pipe diameter = 30.83"
Circumference = 96.86"

Examination Remarks:	
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## Data Analysis

Increment & Scan Positions Actual					Recordable Indications				Analyst Remarks		
Scan No.(s)	Increment Position		Scan Position				Yes	No	N/A	Attachment:	EXAMINATION C SCAN FOR ALL 4 CHANNELS
	Start	Stop	Start	Stop			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
1-95	71.56	76.24	0.00	33.63	Probe 1	Channel 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation Required:	
						Channel 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
					Probe 2	Channel 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
						Channel 4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
					Probe 3	Channel 5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Archive Media:	
						Channel 6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> External Hard Drive	
						Channel 7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> CD-ROM	
					Probe 4	Channel 8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DVD-ROM	

Analyst / SNT Level / Date:  
David R. Kleinjan / II

Reviewed By/Analyst / SNT Level /Signature:  
William Angell / II



Project No. 12-0301  
Instrument S/N 131612

EXAMINATION ET-ID-13  
STATION 1

Date: 17 NOV 2012  
CALIBRATION SHEET: ET-03-PTB-001

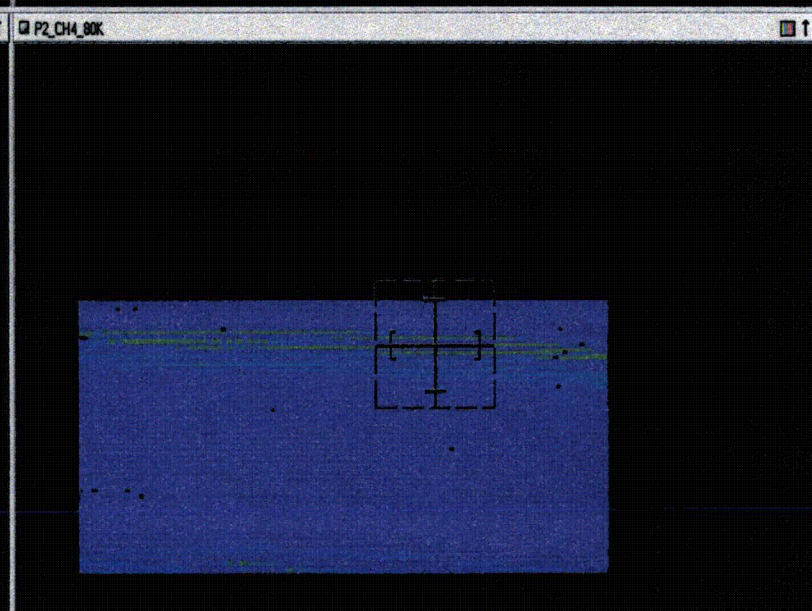
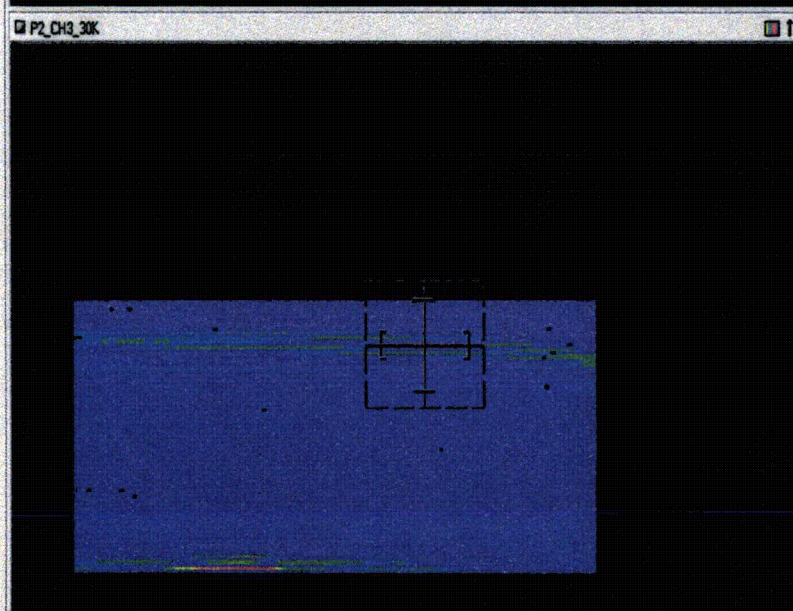
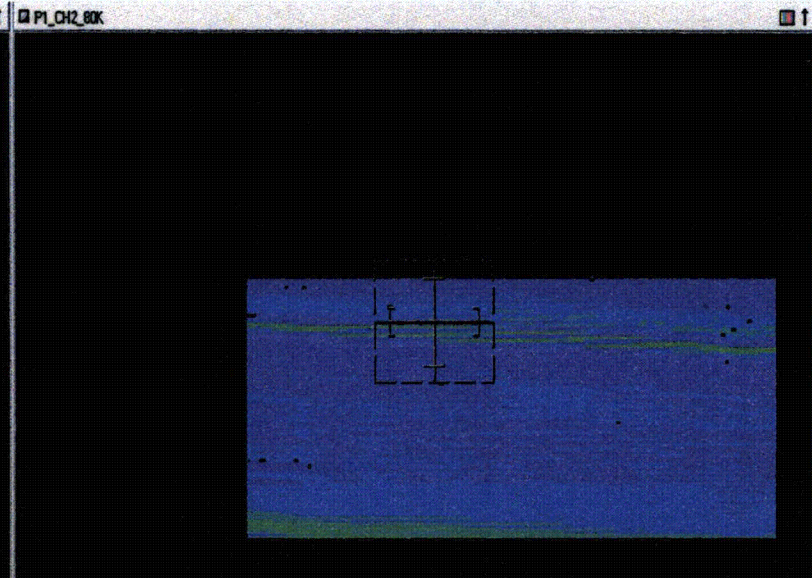
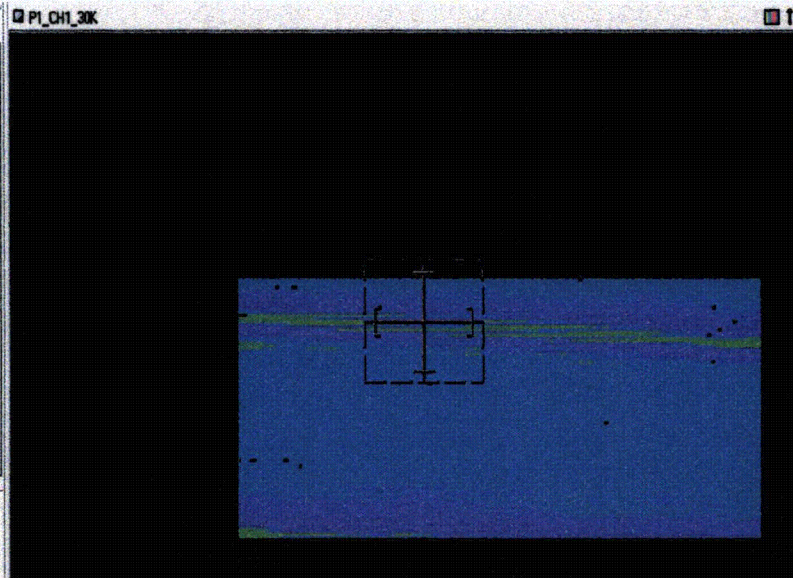
Setup | Inspect | Analysis

C:\RD\TechM...DATA\

File

- ETID 13
- ETID14
- PBETDSMTEST4
- PBETDSMTEST5
- PBST1CALSET2
- PBST1CALSET3.001
- PBST1CALSET3
- ST1CAL SET1
- testswr1
- testswr2
- TESTSWR13
- TESTSWR14
- TESTSWR15

Start | Next



X: 17.23 in. Δ 7.60 in. Y: 73.31 in. Δ 2.20 in. X: 17.23 in. Δ 5.70 in. Enc1 — Enc2 —





# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

Site/Plant : Point Beach Unit 2	Weld Identification: RC-34-MRCL-BI-05	Pro/Rev/Chg/ICN: ISwT-PDI-AUT11/2/0/1	Examination No.: ID-14
Project No.: 12-0301	Weld Description: SE-to-B S/G In Noz (120°-245°)	Device Configuration: 136-00045	
Mod.Conf.: 138-00032	Scan Path Drawing: 134-00079	Exam Date	Examination Time
Data Acquisition Operator (s) / SNT Level:	Bryan Wright / II	18 Nov. 2012	Start End
		1610 1654	94 94

### Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NExT	Lower Limit	71.56	71.56	Lower Limit	32.29	32.29	Beam Direction: Cw/Ccw
Scan: X Rotator Drive	Upper Limit	76.24	76.24	Upper Limit	65.92	65.92	Probe Type: PA22-001
Increment: Y Axial Drive	Inc. Interval (Resolution)	0.05		DCI (Scan Resolution)	0.05		Scanning Speed: 1.5 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 95
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/I: N/A

Master Acquisition File: DM_Pipe_ID_0_CW_180_CCW_Skew.acq					Calibration Records:	Examination Notes:
Probe	Channel /Angle(s)	Skew	Scan Offset	Step Offset		Pipe Diameter = 30.83"
Probe 1	1-(60-88°L)	0°	+ 27.57(in)	- 2.21(in)	110003	Circumference = 96.86"
Probe 2	2-(60-88°L)	180°	+ 37.01(in)	- 2.21(in)	110003	
N/A	N/A	N/A	N/A	N/A	N/A	Examination Remarks:
ET Probe 1	1-2	+22.5°	+ 5.35(in)	+ 0.00(in)	ET03-PTB-01	
ET Probe 2	3-4	-22.5°	- 5.35(in)			

### Data Analysis

Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks	
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment:
	Start	Stop	Start	Stop					
1 - 95	71.56	76.24	32.29	65.92	Probe 1	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation
					Probe 2	Channel 1 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Required:
						Channel 2 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
						Channel 3 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
					Probe 3	Channel 1 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Archive Media:
						Channel 2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
						Channel 3 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> External Hard Drive
					ET Probe 1	Channel 1-2 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					ET Probe 2	Channel 3-4 <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> CD-ROM
					N/A	N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DVD-ROM

Analyst / SNT Level / Date:

Richard A. Riddles / III / 18 Nov. 2012

*Reda Riddles*





# IHI SOUTHWEST TECHNOLOGIES AUTOMATED EDDY CURRENT EXAMINATION RECORD

Site/Plant : Point Beach Unit 2	Weld Identification: RC-34-MRCL-BI-05	Pro/Rev/Chg/ICN: ISWT-AET3/2/0/0	Examination No.: ID-14
Project No.: 12-0301	Weld Description: SE-to-B S/G In Noz (120°-245°)	Device Configuration: 136-00045	
Mod.Conf.: 138-00032	Scan Path Drawing: 134-00079	Exam Date: 17-Nov-12	Examination Time: Start 1610, End 1654
Data Acquisition Operator (s) / SNT Level: David R. Kleinjan / II			Surface Temperature °F: Start 94, End 94

## Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NEXT	Lower Limit	71.56	71.56	Lower Limit	32.29	32.26	Beam Direction: Cw/Ccw
Scan: X Rotator Drive	Upper Limit	76.24	76.29	Upper Limit	65.92	65.92	ET Probe Size: .24 (in)
Increment: Y Axial Drive	Increment Interval	0.05		Resolution	0.20		Scanning Speed: 1.5 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 95
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/L: N/A

Module Parameters:	Status	Channel(s)	Skew	Scan Offset	Step Offset	Calibration Records:	Examination Notes:
Probe 1	On	1-2	+ 22.5°	+5.35 (in)	-2.21 (in.)	ET-03-PTB-001	Pipe diameter = 30.83"
Probe 2	On	3-4	- 22.5°	-5.35 (in)	-2.21 (in.)	ET-03-PTB-001	Circumference = 96.86"
							Examination Remarks:

## Data Analysis

Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks			
Scan No.(s)	Increment Position		Scan Position				Yes	No	N/A	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	EXAMINATION C SCAN FOR ALL 4 CHANNELS
	Start	Stop	Start	Stop							
1-95	71.56	76.24	32.29	65.92	Probe 1	Channel 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
						Channel 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
					Probe 2	Channel 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
						Channel 4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
					Probe 3	Channel 5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Archive Media: <input checked="" type="checkbox"/> External Hard Drive	
						Channel 6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> CD-ROM	
					Probe 4	Channel 7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> DVD-ROM	
						Channel 8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

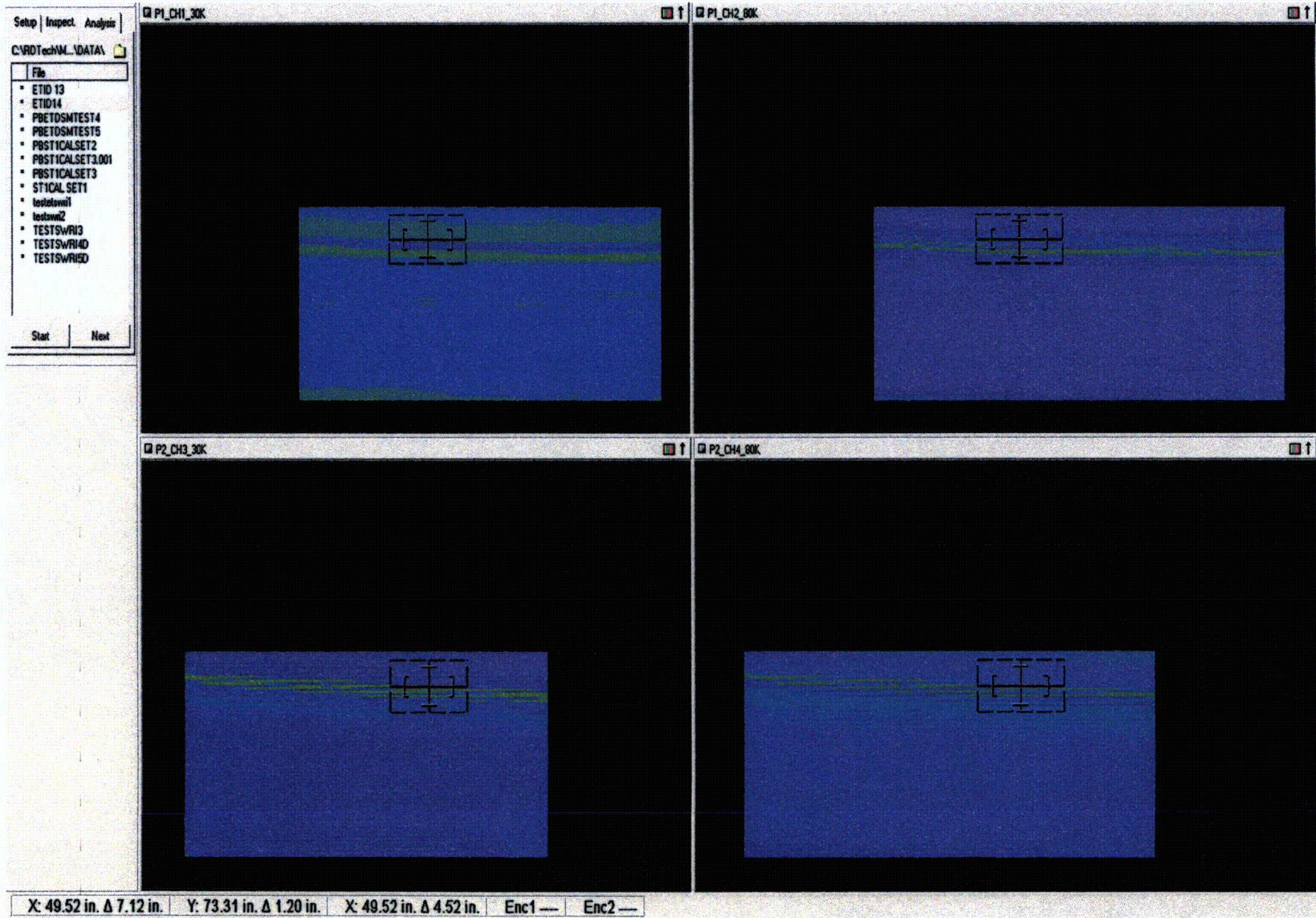
Analyst / SNT Level / Date: David R. Kleinjan / II	Reviewed By/Analyst / SNT Level /Signature: William Angell / II
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Project No. 12-0301  
Instrument S/N 131612

EXAMINATION ET-ID-14  
STATION 1

Date: 17 NOV 2012  
CALIBRATION SHEET: ET-03-PTB-001







# IHI SOUTHWEST TECHNOLOGIES

## AUTOMATED ULTRASONIC EXAMINATION RECORD

<b>Site/Plant :</b> Point Beach Unit 2	<b>Weld Identification:</b> RC-34-MRCL-BI-05	<b>Pro/Rev/Chg/ICN:</b> ISWT-PDI-AUT11/2/0/1	<b>Examination No.:</b> ID-15		
<b>Project No.:</b> 12-0301	<b>Weld Description:</b> SE-to-B S/G In Noz (240°-365°)	<b>Device Configuration:</b> 136-00045			
<b>Mod.Conf.:</b> 138-00032	<b>Scan Path Drawing:</b> 134-00079	<b>Exam Date</b>	<b>Examination Time</b>		
<b>Data Acquisition Operator (s) / SNT Level:</b> Bryan Wright / II		18 Nov. 2012	<b>Start</b>	<b>End</b>	<b>Surface Temperature °F</b>
			1700	1745	94

### Data Acquisition

Scan Controller Parameters	Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters
Controller: SG-NExT	Lower Limit	71.56	71.56	Lower Limit	64.57	64.57	Beam Direction: Cw/Ccw
Scan: X Rotator Drive	Upper Limit	76.24	76.24	Upper Limit	98.20	98.20	Probe Type: PA22-001
Increment: Y Axial Drive	Inc. Interval (Resolution)	0.05		DCI (Scan Resolution)	0.05		Scanning Speed: 1.5 inches per second
Mode: Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans: 95
Scan Motion: Bi-directional				Radius In.	15.38"		Weld C/L: 72.262"
Correction: N/A							Elevation/Nozzle C/I: N/A

Master Acquisition File: DM_Pipe_ID_0_CW_180_CCW_Skew.acq					Calibration Records:	Examination Notes:
Probe	Channel /Angle(s)	Skew	Scan Offset	Step Offset		
Probe 1	1-(60-88°L)	0°	+ 27.57(in)	- 2.21(in)	110003	Pipe Diameter = 30.83"
Probe 2	2-(60-88°L)	180°	+ 37.01(in)	- 2.21(in)	110003	Circumference = 96.86"
N/A	N/A	N/A	N/A	N/A	N/A	<b>Examination Remarks:</b>
ET Probe 1	1-2	+22.5°	+ 5.35(in)	+ 0.00(in)	ET03-PTB-01	
ET Probe 2	3-4	-22.5°	- 5.35(in)			

### Data Analysis

Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks	
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment:
	Start	Stop	Start	Stop					
1 - 95	71.56	76.24	64.57	98.20	Probe 1	Channel 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
						Channel 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
						Channel 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					Probe 2	Channel 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
						Channel 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
						Channel 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					Probe 3	Channel 1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
						Channel 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
						Channel 3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					ET Probe 1	Channel 1-2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					ET Probe 2	Channel 3-4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					N/A	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<b>Analyst / SNT Level / Date:</b>	Richard A. Riddles / III / 18 Nov. 2012	
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<b>Site/Plant :</b> Point Beach Unit 2	<b>Weld Identification:</b> RC-34-MRCL-BI-05	<b>Pro/Rev/Chg/ICN:</b> ISWT-AET3/2/0/0		<b>Examination No.:</b> ID-15		
<b>Project No.:</b> 12-0301	<b>Weld Description:</b> SE-to-B S/G In Noz (240°-365°)	<b>Device Configuration:</b> 136-00045				
<b>Mod.Conf.:</b> 138-00032	<b>Scan Path Drawing:</b> 134-00079	<b>Exam Date</b>	<b>Examination Time</b>		<b>Surface Temperature °F</b>	
<b>Data Acquisition Operator (s) / SNT Level:</b> David R. Kleinjan / II		17-Nov-12	<b>Start</b>	<b>End</b>	<b>Start</b>	<b>End</b>
			1700	1745	94	94

## Data Acquisition

Scan Controller Parameters		Increment Axis	Planned	Actual	Scan Axis	Planned	Actual	Positional Parameters	
Controller:	SG-NEXT	Lower Limit	71.56	71.56	Lower Limit	64.57	64.57	Beam Direction:	Cw/Ccw
Scan:	X Rotator Drive	Upper Limit	76.24	76.24	Upper Limit	98.20	98.20	ET Probe Size:	.24 (in)
Increment:	Y Axial Drive	Increment Interval	0.05		Resolution	0.20		Scanning Speed	1.5 inches per second
Mode:	Automatic Scan	Conversion Units	Inches		Conversion Units	Inches		Number of Scans:	95
Scan Motion:	Bi-directional				Radius In.	15.38"		Weld C/L	72.262"
Correction:	N/A							Elevation/Nozzle C/L	N/A

### Module Parameters:

	Status	Channel(s)	Skew	Scan Offset	Step Offset	Calibration Result	Reference Point
Probe 1	On	1-2	+ 22.5°	+5.35 (in)	-2.21 (in.)	ET-03-PTB-001	Pipe diameter = 30.83"
Probe 2	On	3-4	- 22.5°	-5.35 (in)	-2.21 (in.)	ET-03-PTB-001	Circumference = 96.86"

		<b>Examination Remarks:</b>	
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## Data Analysis

Increment & Scan Positions Actual					Recordable Indications			Analyst Remarks		
Scan No.(s)	Increment Position		Scan Position			Yes	No	N/A	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	EXAMINATION C SCAN FOR ALL 4 CHANNELS
	Start	Stop	Start	Stop						
1-95	71.56	76.24	64.57	98.20	Probe 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Further Evaluation Required:  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
					Channel 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
					Probe 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
					Channel 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
					Channel 4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Archive Media: <input checked="" type="checkbox"/> External Hard Drive <input type="checkbox"/> CD-ROM DVD-ROM	
					Probe 3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
					Channel 5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
					Channel 6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
					Probe 4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
					Channel 7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
					Channel 8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

Analyst / SNT Level / Date:

David R. Kleinjan / II

Reviewed By/Analyst / SNT Level /Signature:

**William Angell / II**



Project No. 12-0301  
Instrument S/N 131612

EXAMINATION ET-ID-15  
STATION 1

Date: 17 NOV 2012  
CALIBRATION SHEET: ET-03-PTB-001

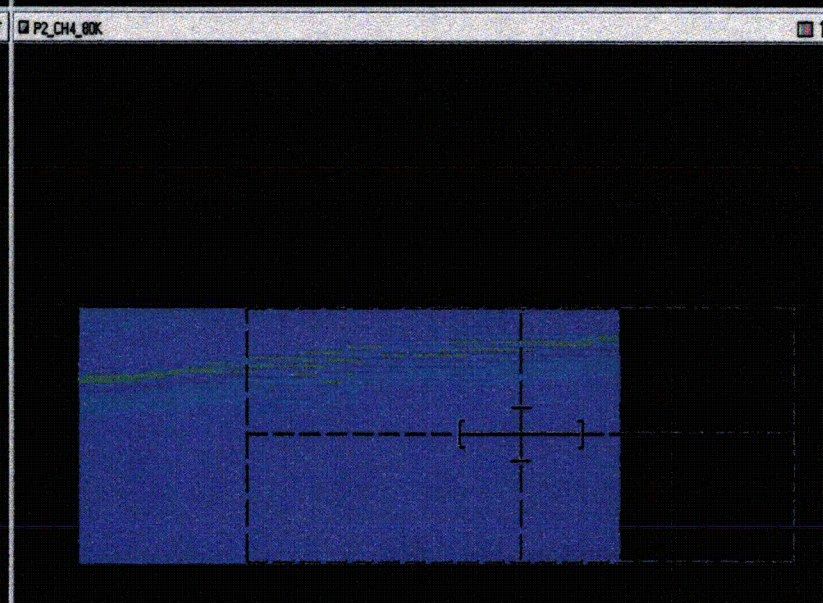
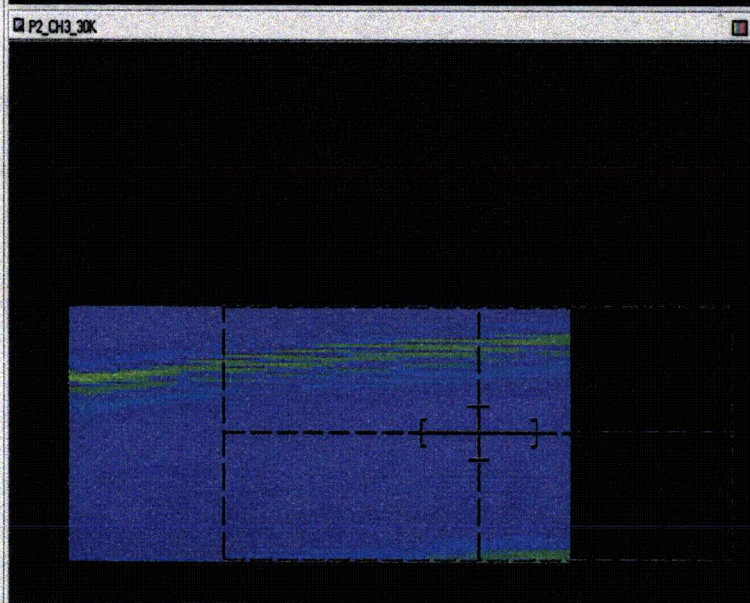
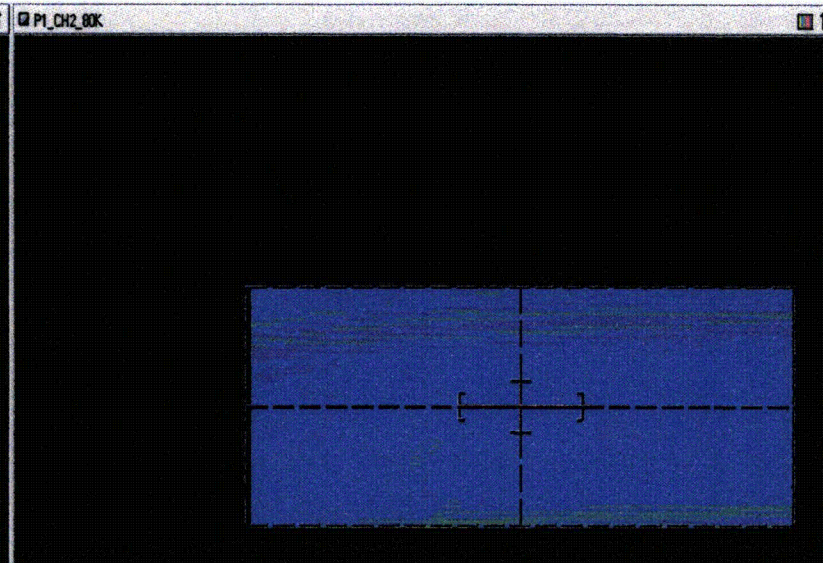
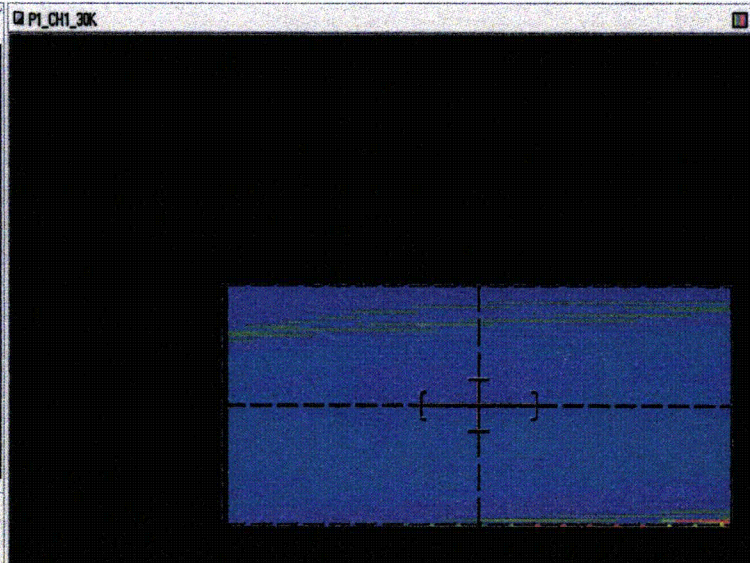
Setup | Inspect | Analysis

C:\RDTech\NM...SDATA\

File

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- ETID 14
- ETID 15
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- PBETDSMTEST5
- PBSTICALSET2
- PBSTICALSET3.001
- PBSTICALSET3
- STICAL SET1
- testetwin1
- testetwin2
- TESTSWR13
- TESTSWR14
- TESTSWR15

Start Next



X: 86.64 in. Δ 34.16 in. Y: 71.76 in. Δ 4.70 in. X: 86.64 in. Δ 7.72 in. Enc1 — Enc2 —