	APPLUS-RTD EDMONTON, ALBERTA, CANADA T6P 1N5 Tel: (780) 440-6600 Fax: (780) 440-2538				GENERAL NDE REPORT A-3141304_06_21 2013 MT-Report-b					
					Date _June 20 , 2013					
					RTD Job #: 10-113249					
	1.	1221 (700) 110 0000 11211 (700) 110 2000			RTD Dep.	RTD Dep. #: G/P				
Client:							-11-88-13 W6	M		
Address: W.O.#:	ClearH	ills Gas Plant	(AB)	(AB)		Location: ClearHills Gas Plant Procedure: RTD-MT- 003				
Client Rep.:	Craig L	Craig Liba			Code:					
1										
Description: MPI Inspection on all internal tee intersections, nozzles, Inlet diffuser, demister support cage to shell and manway weld to shell in the (High Pressure Inlet Separator) (A-3141304). Weldment Machined Painted Rock Town (20) To 5 to 5 to 60 Town (20) T										
Surface Condition: \square Weldment \square Machined \square Painted \square Surface Temp (C°): $\square < 5 > 5 \times < 60 \square > 60$										
MAGNETIC PARTICLE INSPECTION										
Equipment Type:										
Blacklight: Intensity Check: 2080 μW/cm² Asset No.: 12754 Calibration Due Date: 08-21-13 Method: Δ/C D/C Type: Continuous Residual Power Supply: 120 V Battery Natural										
Type: Dry Powder: Colour; Wet: Black and White Fluorescent										
Product Manufacturer: Magna Flux Product Identification Code: 14 AM										
LIQUID PENETRANT INSPECTION										
Type: I-Fluorescent II-Visible Dye Method: A (Water Wash) B (P.E. Lipophilic) C (Solvent Removable) D (P.E. Hydrophilic)										
Blacklight: Asset No.; Calibration Due Date; Blacklight Intensity; µW/cm² Dwell Times: Penetrant; Minutes Developer; Minutes Product Manufacturer:										
Dwell Times: Penetrant; Minutes Developer; Minutes Product Manufacturer:										
ULTRASONIC THICKNESS MEASUREMENT										
Method: P/E Dual T/T Other Type: Longitudinal Shear Wave Instrumentation: RTD Asset No.: Calibration Date;										
Instrumentation: Manufacturer; RTD Asset No.; Calibration Date; Cal. Block(s): Type; RTD Asset No.; Serial No.;										
Couplant: Manufacturer; Type;										
Probe	Angle	Frequency	Size	Reference	Scanning	Range	Skip Value	Beam	Transfer	
Туре		1 2		Level (dB)	Level (dB)		1	Travel	Value (dB)	
Scope:	Corry	out Magnatic	Dorticle Inc	INSPECTION pection on all in	N DETAILS	oregotions no	zzlos Inlot di	ffusor wolds	to shall	
scope.										
demister support cage to shell and manway weld to shell in the (High Pressure Inlet Separator- A-3141304).										
D 1:	(4)	\			e 1	11 10	1 1/44 / 1/44 *			
Results: (1) At East shell tee intersection the circumferential weld had (9) cracks ¼" to ½" in length running circumferentially.										
(2) All (8) lower Cracks were removed with light remedial grinding with 80Grit flapper, with										
substantial weld cap remaining.										
(3) The top crack at $\frac{1}{2}$ " length above tee intersection was removed with light remedial grinding with 80grit										
flapper flush with shell.										
(4) All were re-inspected and found acceptable.										
Technician:	Jerry Hryn	kiw	CCCD /ACM	T/CMT Lovel. II	Start Time:	Stop	Tima:	ST	OT	
Signature:	Jerry Hryn	K1W		T/SNT Level: II MT #5709	Unit:	Stop	Km:	Travel Time:	- 01	
Assistant:				T/SNT Level:	I —	Subsistence required OT Meal				
Client Sign	ature:					Consumables:				

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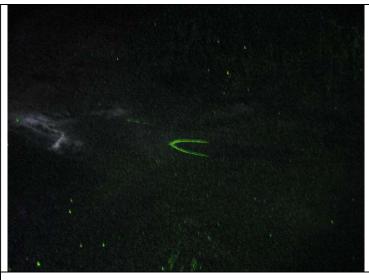
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View of crack above tee intersection

Over all view of location and area of cracks found





Bottom nozzles

Demister pad weld to shell

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Nozzle by Demister pad support weld to Shell

Inlet Diffuser Box



Final view of circ weld after cracks removed with weld cap intact.



Final view above tee intersection after crack removed flush with shell