	Applus-RTD				GENER	GENERAL NDE REPORT A-3141304_06_21 2013 MT-Report-b				
	EDMONTON, ALBERTA,					Date June 20, 2013 Page 1 of 4				
	CANADA T6P 1N5 Tel: (780) 440-6600 Fax: (780) 440-2538				RTD Job #:	RTD Job #: 10-113249 RTD Dep. #: G /P				
	1LL. (700) 440 00001 AX. (700) 440 2550			RTD Dep. 7						
Client: C.N.R.L					LSD					
Address: W.O.#:	_ClearH	ills Gas Plant	(AB)		Location: Procedure:		ClearHills Gas Plant RTD-MT- 003			
W.O.π. Client Rep.:	Craig I	Craig Liba			Code:					
Chem Rep.	Cruig Liou			0000.	Asine viii Div i					
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 Co. Co. To. (CO.) To.										
Surface Condition: $\square$ Weldment $\square$ Machined $\square$ Painted $\square$ Surface Temp (C°): $\square < 5 > 5 \times < 60 \square > 60$										
MAGNETIC PARTICLE INSPECTION										
Equipment Type: Some Sench Asset No.: 2227 Calibration Due Date: 07-21-13										
Blacklight: Intensity Check: 2080 μW/cm <sup>2</sup> Asset No.: 12754 Calibration Due Date: 08-21-13  Method: X A/C D/C Type: Continuous Residual Power Supply: 120 V Battery Natural										
Method: ⊠ A/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										
LIOU	ID PENETI	RANT INSPI	ECTION							
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: Manufacturer; RTD Asset No.; Calibration Date; Cal. Block(s): Type; RTD Asset No.; Serial No.;										
Cal. Block(s): Type; RTD Asset No.; Serial No.; Serial No.; Type; Type;										
Probe	Angle	Frequency	Size	Reference	Scanning	Range	Skip Value	Beam	Transfer	
Туре	ringic	Trequency	Size	Level (dB)	Level (dB)	Range	Skip value	Travel	Value (dB)	
					ON DETAILS					
Scope:	•			pection on all i						
	ueiiis	ter support c	age to shen a	nd manway wo	eia to shen in t	ne (High Fre	ssure imet se	parator- A-3	141304).	
Results:	(1)	,		ction the circu	mferential wel	d had (9) cra	cks ¼" to ½" i	n length run	ning	
	(2)	circumfere	•	re removed wi	th light remedi	al orindino v	vith 80Grit fla	nner with		
(2) All (8) lower Cracks were removed with light remedial grinding with 80Grit flapper, with substantial weld cap remaining.										
(3) The top crack at ½" 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	CGSB /ASN	T/SNT Level:	Start Time:	Stop	Time:	ST	OT	
Signature:										
Assistant:			Method:: ]	MT #5709	Unit:		Km:	Travel Time:		
Assistant:				MT #5709  T/SNT Level:	+ <u> </u>	ce required		Travel Time: T Meal		

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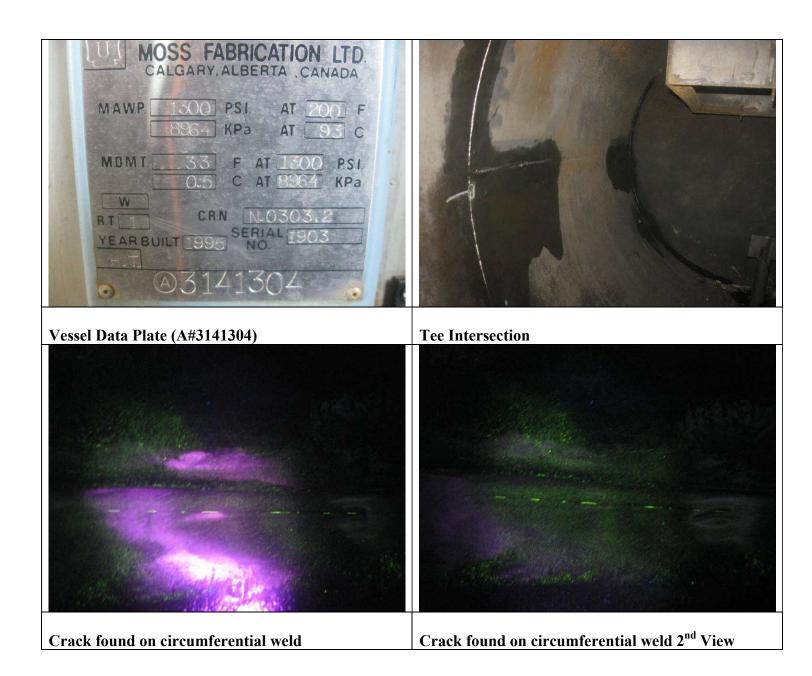
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## GENERAL NDE REPORT

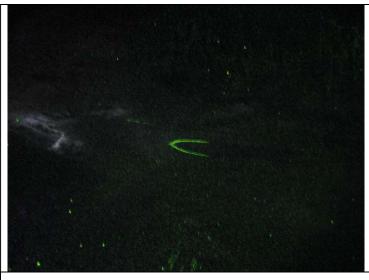
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View of crack above tee intersection

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