

APPLUS-RTD
 EDMONTON, ALBERTA,
 CANADA T6P 1N5
 TEL: (780) 440-6600 FAX: (780) 440-2538

GENERAL NDE REPORT

A-2955267_06_22
 2013_MT-Report-b

Date June 22, 2013 Page 1 of 2
 RTD Job #: 10-113249
 RTD Dep. #: G/P

Client: C.N.R.L
 Address: ClearHills Gas Plant (AB)
 W.O.#: _____
 Client Rep.: Craig Liba

LSD: L.S.D. 16-11-88-13 W6M
 Location: ClearHills Gas Plant
 Procedure: RTD-MT- 003
 Code: Asme VIII Div 1

Description: MPI Inspection on all internal tee intersections, nozzles, Inlet diffuser, demister support cage to shell and manway weld to shell in the L.P Low Pressure Separator (A #2955267).

Surface Condition: Weldment Machined Painted
 Ground Sandblasted Other Surface Temp (C°): < 5 > 5 x < 60 > 60

MAGNETIC PARTICLE INSPECTION

Equipment Type: Yoke Bench Asset No.: 2227 Calibration Due Date: 07-21-13
 Blacklight: Intensity Check: 2080 $\mu\text{W}/\text{cm}^2$ Asset No.: 12754 Calibration Due Date: 08-21-13
 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

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; _____ $\mu\text{W}/\text{cm}^2$
 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.; _____
 Couplant: Manufacturer; _____ Type; _____

| Probe Type | Angle | Frequency | Size | Reference Level (dB) | Scanning Level (dB) | Range | Skip Value | Beam Travel | Transfer Value (dB) |
|------------|-------|-----------|------|----------------------|---------------------|-------|------------|-------------|---------------------|
| | | | | | | | | | |
| | | | | | | | | | |

INSPECTION DETAILS

Scope: **Carry out Magnetic Particle Inspection on all internal tee intersections, nozzles, Inlet diffuser, demister support Cage to shell and manway weld to shell in the L.P Low Pressure Separator (A#2955267).**

Results: **(1) No cracks found at time of inspection**

See Attached photos for areas inspected and location.

Technician: Jerry Hrynkiw CGSB /ASNT/SNT Level: II Start Time: _____ Stop Time: _____ ST _____ OT _____
 Signature: _____ Method: MT #5709 Unit: _____ Km: _____ Travel Time: _____
 Assistant: _____ CGSB /ASNT/SNT Level: _____ Subsistence required OT Meal
 Client Signature: _____ Consumables: _____

*Results are an interpretation of the inspection method, not a guarantee. Client signature indicates acceptance of report, results and applicable charges.

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Vessel Data Plate (A2955267)

Tee Intersection Overview



Inlet Diffuser Cage Overview

Demister pad support cage to shell

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Weir Plate to Shell



Tee Intersection Overview



Overview of Nozzles at North Head



Nozzle at 12:00 o'clock