



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

GENERAL NDE REPORT

AI-09-30-10-JDH
T# 2-Boiler-g

Date Sept 30, 2010 Page 1 of 2
 RTD Job #: 105. 01033
 RTD Dep. #: G / P

Client: Canadian Natural Resources Limited
 Address: Clearhills Gas Plant, AB
 W.O.#: _____
 Client Rep.: Souk

LSD: L.S.D. 16-11-88-13- W6M
 Location: Clearhills Gas Plant
 Procedure: RTD-MT- 001
 Code: ASME VIII DIV 1

Description: MPI Inspection on the Return End Tube sheet and Burner End Tube sheet on Saskatoon Boiler Ser # (3706)
 Surface Condition: Weldment Machined Painted
 Ground Sandblasted Other Surface Temp (C°): < 5 > 5 < 60 > 60

MAGNETIC PARTICLE INSPECTION

Equipment Type: Yoke Bench Asset No.: 11213 Calibration Due Date: 09/02/11
 Blacklight: Intensity Check: _____ $\mu\text{W}/\text{cm}^2$ Asset No.: _____ Calibration Due Date: _____
 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: WCP-2 & 7HF Black Ink

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; Panametrics RTD Asset No.; 10308 Calibration Date; 09/10/10
 Cal. Block(s): Type; 2.0mm-20.mm RTD Asset No.; 9116 Serial No.; 3317-475
 Couplant: Manufacturer; Sonotest Type; Ultragel

Probe Type	Angle	Frequency	Size	Reference Level (dB)	Scanning Level (dB)	Range	Skip Value	Beam Travel	Transfer Value (dB)
Stresstel	0° Degree	5Mhz	.250"	48.9db	+6db	50mm	0	0	0

INSPECTION DETAILS

Scope: (1) Carried out Magnetic Particle Inspection on the Return End Tube sheet and Burner End Tube sheet for Train #2 Saskatoon Boiler (Ser# 3706).
 (2) Carried out Ultrasonic Thickness Survey on Bottom Shell of Boiler.

Results: There were no cracks detected.
 Ultrasonic Thickness on Bottom Shell 15.5Min with a average of 15.9mm.

See attached photos for areas inspected.

Technician: Jerry Hrynkiw CGSB /ASNT/SNT Level: II Start Time: _____ Stop Time: _____ ST _____ OT _____
 Signature: _____ Method: MT-II Unit: _____ Km: _____ Travel Time: _____
 Assistant: Kayler Fourny 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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AI-09-30-10-JDH-
 CNRL-CH-g

Date Sept 30, 2010 Page 2 of 2
 RTD Job #: 105. 01033
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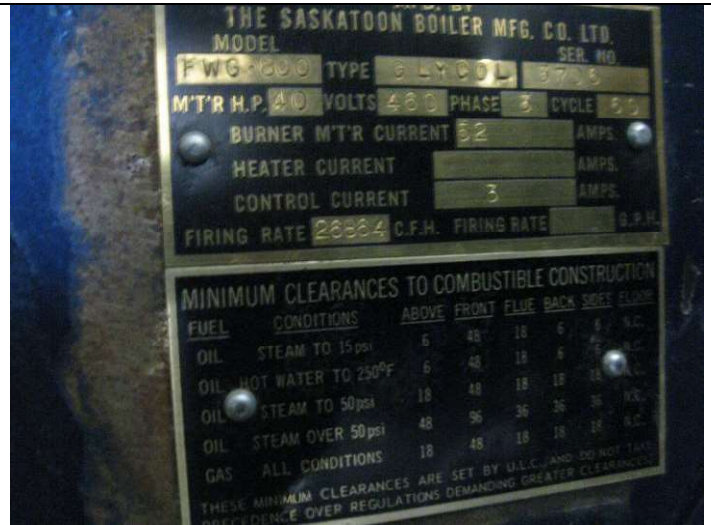
**Return End of Train # 2 Saskatoon Boiler
 (Ser # 3706)**



**Burner End of Train #2 Saskatoon Boiler
 (Ser # 3706)**



**Data Plate
 (A-2240501) Ser # 3706**



**Data Plate
 (A-2240501) Ser # 3706**