IRISNDT

Ultrasonic Inspection Report

Report #: **92181-UT-WF-01** IRISNDT Job #: **92181** Date: **04/19/07** Page **1** of **2**

Client: **CNRL** PO/Job #: Contact: **KEITH MCINTOSH**

Job location: **NIPISI** Tel: **780-991-7644**

Fax:

Procedure(s): **UT-1**

Code(s): **ASME SEC VIII DIV 1**

Item Inspected: **Parker Boiler** Material: **CS**

Method: ☒ Contact ☐ Immersion ☐ Other: Surface Temp (C): ☐ < 5° ☒ > 5°/ < 60° ☐ > 60°

Type: ☐ P/E ☐ T/T ☒ Dual ☐ Automated ☐ TOFD Scanning Surface: ☒ OD ☐ ID ☐ Other:

Application: ☐ Laminar ☐ Shear Wave ☐ Volumetric ☒ Thickness Surface Condition: **Wire Brush**

Instrumentation: Manufacturer: **Krautkramer** Type: **DMS 2** Instrument Ser. #:

Calibration: Date: **03/15/07** Reference Flaw Size: IRISNDT #: **31063**

Calibration Block(s): Type: **Step Wedge - I** IRISNDT #: **32727** Type: IRISNDT #:

Type: IRISNDT #: Type: IRISNDT #:

Couplant: Brand: **Ultragel** Type: Cable: Type: **Dual** Length: **3'**

PROBE						SETTINGS - dB			RANGE - ☒ INCHES ☐ MM		
Manufacturer	Type	Serial #	Angle	Frequency	Size	Reference Level	Scanning Level	Transfer Value	Screen Size	Skip Value	Beam Travel
Krautkramer	**Dual**	**01C8J5**	**0**	**5.0 MHz**	**0.250**	**58**	**+2 dB**		**1.0**		

INSPECTION DETAILS

Scope: **Scope: Perform an ultrasonic thickness (UT) survey on Parker boiler A2556400(S/N: 37668, CRN: H8558.2) at CNRL plant Nipisi.**

Results: **-4-point UT was carried out on the inlet, outlet and blinded nozzles (Top, South, Bottom, North for each nozzle).**
-The only accessible area of the boiler tubes was the bottom extrados. This area was scanned and the lowest reading was recorded.
-Refer to the attached page for tables of the thickness recorded.

Assistant:

☐ CGSB ☐ SNT UT Level: ☐ I ☐ II ☐ III No.#:

Unit: Km: Travel Time:

Start: Stop: Work hrs:

☐ OT Meal ☐ Subsistence required Total hrs:

Consumables:

Technician: **WES FARQUHAR**

☒ CGSB ☐ SNT UT Level: ☒ I ☐ II ☐ III No.#: **10477**

Signature: Digitally signed by Wes Farguhar DN: CN = Wes Farguhar, C = CA, O = IRISNDT, OU = Specialty Reason: I am the author of this document Date: 2007.05.07 10:11:48 -06'00'

Client Name:

Signature:

Boiler	Nozzles	Top (in)	South (in)	Bottom (in)	North (in)
A2556400	Inlet	0.271	0.261	0.243	0.243
	Outlet	0.255	0.246	0.253	0.270
	East Blinded	0.256	0.252	0.253	0.257
	West Blinded	0.254	0.257	0.260	0.259

Boiler	Tube	Thickness (in)
A2556400	1	0.109
	2	0.108
	3	0.112
	4	0.108
	5	0.101
	6	0.106
	7	0.113
	8	0.110
	9	0.100
	10	0.112
	11	0.102
	12	0.101
	13	0.101
	14	0.118
	15	0.105
	16	0.112
	17	0.116
	18	0.112
	19	0.112
	20	0.108
	21	0.116
	22	0.111
	23	0.104
	24	0.114
	25	0.109
	26	0.111
	27	0.121

*Tubes were numbered from East to West.