



Ultrasonic Inspection Report

Job #:
Report #:
Inspection Date:

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--UT-BV-1

March 30, 2012

Client:	CNRL	Location:	Grand Forks LSD: 10-22-012-14W4M
Procedure:	UT-0001	Item Inspected:	Vessel Dehy Tower A0437520
Code:	ASME Section VIII Div 1		

Surface Condition:	Painted <input checked="" type="checkbox"/>	Sandblasted <input type="checkbox"/>	Machined <input type="checkbox"/>	As Cast <input type="checkbox"/>	As Forged <input type="checkbox"/>
	Weldment <input type="checkbox"/>	Other <input type="checkbox"/>	Material: C.S.		

Scanning Surface:	OD <input checked="" type="checkbox"/>	ID <input type="checkbox"/>	Other: <input type="checkbox"/>	Surface Temp (°C):	> 5° / < 60°
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Method:	Contact <input checked="" type="checkbox"/>	Immersion <input type="checkbox"/>	Other <input type="checkbox"/>		
Type:	P/E <input type="checkbox"/>	T/T <input type="checkbox"/>	Dual <input checked="" type="checkbox"/>	Automated <input type="checkbox"/>	TOFD <input type="checkbox"/>
Application:	Laminar <input checked="" type="checkbox"/>	Shear Wave <input type="checkbox"/>	Volumetric <input type="checkbox"/>	Thickness <input checked="" type="checkbox"/>	

Instrumentation:	Mfg: G.E.	Type: Krautkramer	Equip #: DMS2	Serial #: 020XP6
Calibration:	Date: 01/12/2012		Reference Flaw Size: Backwall	
Calibration Block (s):	Type:	Block#:	Type:	Block#:
	Type: .5" Stepwedge	Block#: 10-2192	Type:	Block#:

Couplant:	Brand: Sono Tech	Type: Echogel	Cable:	Type: Coaxial	Length: 36"
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PROBE						Settings - dB			Range - <input type="checkbox"/> IN. <input type="checkbox"/> MM		
Manufacturer	Type	Serial #	Angle	Frequency	Size	Ref Level	Scan Level	Transfer Value	Screen Size	Skip Value	Beam Travel
G.E.	Dual	0200LL	0	7.5Mhz	0	6db					

Scope and Inspection Results

Carry out UT examination of Dehy Tower A0437520.
 Check for corrosion of the Bottom Head, shell and associated piping to verify integrity for service and identify any areas of concern.

Results:
 UT examination was carried out; all readings taken were 10" band scans with three readings per TML location/band. Minimum, Maximum and Average readings were taken and recorded in each location.
 All readings were found to be at or above nominal on the Bottom Head, shell and associated piping.
 See attached Pictures, drawing and UTM Readings for locations and thicknesses recorded.

Recommendation:
 Continue to carry out UT corrosion survey and Visual inspection at the required inspection frequency.

Final Comment:
 Dehy Tower is fit for service.

Inspection Limitation(s): None

Time and Billing Information:

Vehicle #:	001	Kms:		Hrs		Tech. (Name):	Blair Verge	SNT-TC-1A:	1
Time In:	00:00	Time Out:	00:00			Tech. (Sign):		CGSB Level:	I
Time In:	00:00	Time Out:	00:00			Client (Name):		CGSB #:	5586
Personnel:	Ayralee Martin Blair Verge				Client (Sign):				

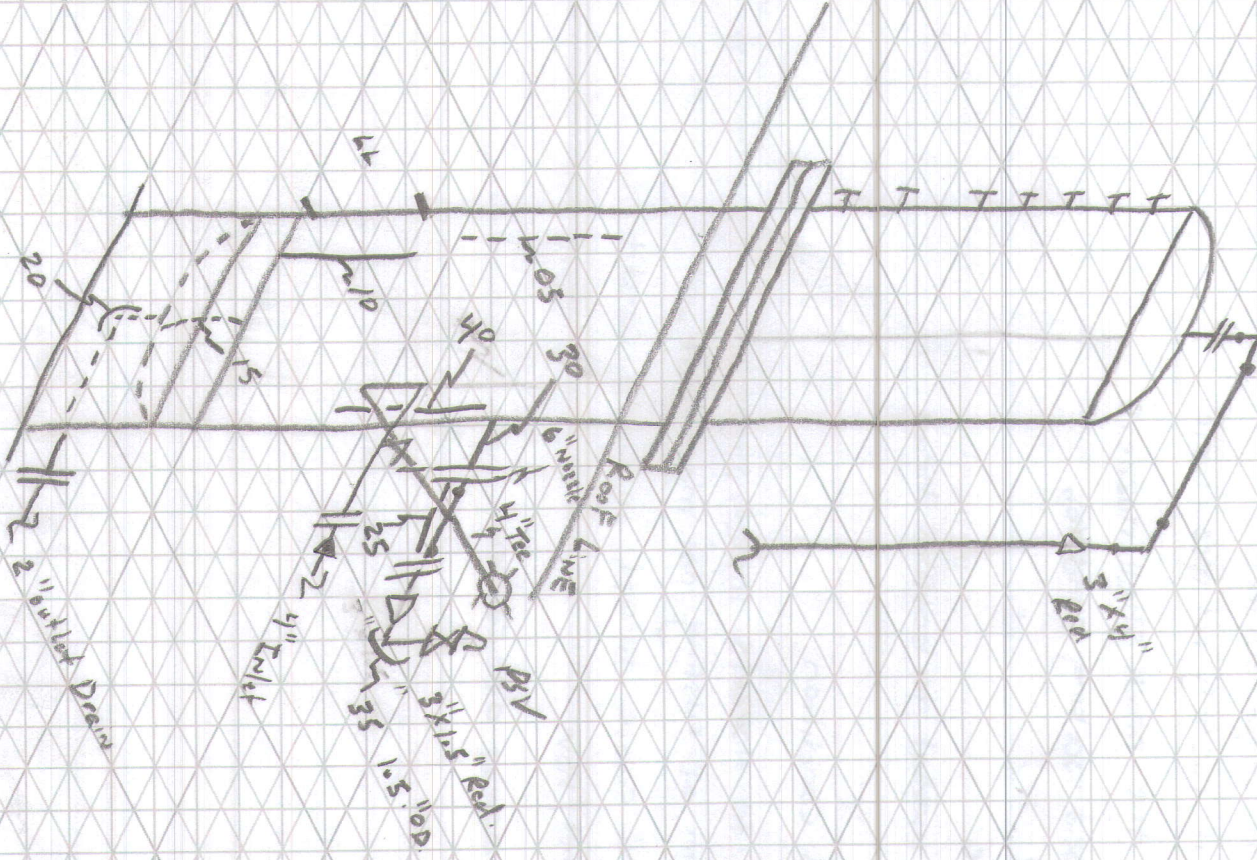
Additional Billing Information: : -



CORROSION INSPECTION SERVICES

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05 VON TREB
 10 NLS 7D8"
 15 NBSH T8EB
 20 VOZDE T8a"
 25 HOYTEE EMB
 30 VOBON N84"
 35 VOISOE BTSS
 40 VMSWS T8SB



Denny Tower

CUSTOMER: CNRL **FACILITY:** Grand Forks **LSD:** 10-22-012-14W4M
P & ID: _____ **DRAWN BY:** B. Verge **DATE:** 11/06/30/12 **DRAWING NO.:** _____

VESSEL INFORMATION:
 Equip. No. V-480 Pro. Reg. No. (A) 0437520 C.R.N. L0916.213 Serial No. V-2810A2 Yr. Inst. _____
 Code/Div. _____ Size: 24" ID / OD X: 26'0" Manufacturer: OPSCO '92 Industries Ltd. Yr. Blt. 1998
 C. Stamp: yes Service: Sour. PWHT: HT J.E.: _____ Radiography: RT-1 Insulated: NO

HEAD: **SHELL:**
 Top Mat'l. SA-516-70N Top Nom.: 1,140" Top C.A. _____ Material: SA-516-70N Nominal: 1.125" C.A. -125"
 Btm Mat'l. _____ Btm Norm.: _____ Btm C.A. _____

BOOT: **CHANNEL:**
 Head Mat'l.: _____ Head Nom.: _____ Head C.A. _____ Top Mat'l.: _____ Top Nom.: _____ Top C.A. _____
 Shell Mat'l.: _____ Shell Nom.: _____ Shell C.A. _____ Btm Mat'l.: _____ Btm Norm.: _____ Btm C.A. _____
 MAWP Shell Side: 1440 PSI @ Temp. 120°F MAWP Tube Side: _____ @ Temp. _____

PIPING INFORMATION: MOMT - 20°F @ 1440 PSI
 Circuit. No. _____ Line No. (s) **(PLEASE PUT LINE NUMBERS ON APPLICABLE LINES ON THE DRAWING)**
 Piping Class: _____ Service: _____ Yr. Blt. _____
 MAWP: _____ @ Temp. _____ Size & Schedule of Piping **(PLEASE PUT APPROPRIATE SIZES AND SCHEDULES OF PIPING ON DRAWING)**

UT Readings for Dehy Tower A0437520

	<u>Minimum</u>	<u>Maximum</u>	<u>Average</u>
LOC 5	1.132	1.134	1.134
LOC 10	1.133	1.149	1.135
LOC 15	1.176	1.239	1.191
LOC 20	0.388	0.408	0.388
LOC 25	0.492	0.668	0.566
LOC 30	1.044	1.076	1.049
LOC 35	0.319	0.328	0.327
LOC 40	1.13	1.131	1.131