



SCRUBBERS INSPECTION REPORT

(Metric)

Facility: LLOYDMINSTER SOUTH BOOSTER	Date: August 18, 2010	Report #: IR100818RPLm
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Area Supervisor: AL HINZ	W.O. / C.C.#: 77275
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STATIC DATA			
Alberta Reg. #: 545993	CRN: A-4060.32	National Board #: -	
Equipment Number: 62045563	Notification #: -	Classification: -	
Manufacturer: WATERFLOOD SERVICE & SALES LTD	Serial Number: 0196404		
Equip. Description: INLET SCRUBBER	Location (LSD): 07-30-048-01W4		
Equipment Tag #: -	Year Built: 2001	Company I.D.#: BC-158048	
Province Installed: ALBERTA	Registration #: -	Skid / Building #: -	
Nameplate Attached: YES	Legible: YES	U1A Available: NO	

MAWP: 1724 Kpa	Diameter: O.D. 406 mm	Radiography: NO	Efficiency: %
MAWT: 93 °C	Diameter: I.D. 387 mm	Stress Relief: NO	Code Stamp: -
MDMT: -29 °C	Length: s/s 1168 mm	Ext. Coating: YES	Position: VERTICAL
Capacity: - m ³	Overall Length: 1702 mm	Insulated: NO	Support: SKIRT

Internal Coating: NO	Type: -	Thickness: - mm	Manway: NO	Size: - mm
Internal Cladding: NO	Type: -	Thickness: - mm	Test Pressure: - kpa	
Inspection Port: NO	Size: - mm	Location: #1	#2	-

	Type	Material	Thickness	Corrosion Allowance
SHELL	-	N/A	9.53 mm	- mm
TOP HEAD	ELLIPTICAL	SA-516-70	9.53 mm	- mm
BOTTOM HEAD	ELLIPTICAL	SA-516-70	9.53 mm	- mm

Nozzle Description	I.D. #	NPS	Flange Rating	Type	Material	Thickness	Length
Inlet	-	76 mm	150 #	RFWN	SA-106B	7.6 mm	76 mm
Outlet	-	102 mm	150 #	RFWN	SA-106B	8.6 mm	76 mm
Drain	-	25 mm	150 #	RFWN	SA-234-WPB	6.4 mm	305 mm

PROCESS DATA			
Product Description: NATURAL GAS	Service: SWEET		-
Operating Pressure: 69 Kpa	Operating Temperature: - °C		

PSV STATIC DATA			
Tag Number: -	Manufacturer: TAYLOR		
Company I.D. #: -	Model # / Type: T-8200-2	Equipment #: -	
Serial Number: 83353-7	CRN: OG1316.23419087YT	Code Stamp: UV NB	
Inlet Size: 51 mm	Rating: - #	Set Pressure: 345 Kpa	Back Pressure: - Kpa
Outlet Size: 51 mm	Rating: - #	Capacity: 474 SCFM	Service Date: 06/2010
Location of PSV: TOP OF INLET SCRUBBER			

INSPECTION DETAILS									
Inspection Reason: CODE INSPECTION	Inspections Required:	VE	UT						
Inspection Test Plan: -	Inspection Type Used:	VE	UT						
Last Inspection Date: -	Next Inspection Type:	VE	UT						
Next Inspection Due: 2015	Outstanding Repairs:	NO	RBI Category:	A	B	C	D		

VESSEL STATUS			
Integrity Status: SUITABLE FOR CONTINUED SERVICE	Inventory Status: ISF		
This IR completes a thorough inspection; reschedule as indicated. YES	Partial inspection; do not reschedule. -		

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INSPECTION SUMMARY

A thorough inspection to verify the equipments integrity was done by VE and UT.
There were no rejectable defects observed at this time; the vessel can be recommended fit for service.
There are no recommendations to be made at this time.
There were no repairs performed that were related to this inspection.
No NCR's were issued at this time.
No IDR's were issued at this time.
There was no internal inspection performed at this time.
There was no internal NDE performed during this inspection.
The nameplate is in tact and legible.
The instrumentation and its tubing are in good working condition with no detectable leaks.
The site glass drain is properly connected and in good condition.
The pressure retaining welds are in tact with no evidence of deterioration or visible cracking.
The vessel support is securely welded to the skid floor.
There is adequate access to the bottom head.
The vessel's ground connection is through the skid's ground rod.
The vessel is protected by a PSV that is in fair condition.
The vessel is painted with no notable coating defects.
The piping and piping attachments are in fair condition with no detectable leaks.
The piping bolt up grading is B7 and 2H.
The attached piping is painted with no notable defects.

RECOMMENDATIONS

REPAIRS COMPLETED

INSPECTION OBSERVATIONS

NON COMPLIANCES ISSUED

INSPECTION DEFICIENCIES ISSUED



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EXTERNAL VISUAL INSPECTION

ID	Description	Condition	Location	NCR	Comments
GENERAL					
V2	Corrosion	No			Acceptable
V3	Leaks	No			Acceptable
V7	Heads	Fair			Acceptable
V9	Electrical Ground	Fair			Acceptable
V11	Coating/Painting	Fair			Acceptable
V13	Gauges/Site Glass	Fair			Acceptable
V14	Shell	Fair			Acceptable
SUPPORTS					
V24	Saddle/Skirt	Fair			Acceptable
CONNECTIONS					
V33	Nozzles	Fair			Acceptable
V37	Bolting	Fair			Acceptable
V38	Flanges	Fair			Acceptable
RELIEF DEVICE					
V51	Other (Please Explain)	Fair			Acceptable
V52	Corrosion	No			Acceptable
V53	Leaks	No			Acceptable
V54	Restricted Inlet/Outlet	No			Acceptable

EXTERNAL NDE

NDE inspections were performed by Silvertip Inspection Services Ltd. Some of the UT values recorded on the vessel are slightly below nominal. The UT values recorded on the drain nozzle are slightly below nominal. See the attached NDE reports for more detailed information.

INTERNAL VISUAL INSPECTION

INTERNAL NDE

PRESSURE TESTS

Test Completed: - Test Pressure: - Kpa Test Acceptable: - Test Report #: -

INSPECTOR CERTIFICATION AND ACCEPTANCE

I, the undersigned, certify that the equipment stated above has been inspected in accordance with the assigned task list and that the statements within this report are correct and represent my inspection findings.

External Inspector's Name: REMI LACASSE	Inspector's Certification: API 510	Inspector's Signature: 	Date: AUGUST 18, 2010
Internal Inspector's Name: -	Inspector's Certification: -	Inspector's Signature: -	Date: -

CHIEF OR LEAD INSPECTOR'S ACCEPTANCE AND SCHEDULE CONFIRMATION

Inspector's Name: RAY TRACHUK	Inspector's Certification:	Inspector's Signature:	Date:
Vessel Inspection Interval: 5 Years	Leave "As Is":	Change to: Years	PSV Inspection Interval: 4 Years
	Leave "As Is":	Change to: Years	

Office Use Report Entered to SEQA Database by: _____ Date: _____
Only: Static Data Verified by: _____ Date: _____

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NAMEPLATE



OVERALL VIEW

