





Field Inspection Report

Client	CNRL		Date of Inspection	March 13, 2012					
Prov. Reg.#	A2664161		Inspection Type	VE, UT					
Equipment	Horizontal Separator		Location	Redcliff South					
Tag/Equip. #	V 102		LSD	08-23-012-07W4M					
Vessel Status	In Service		Comp./Unit #						
Manufacturer	Sure Weld Industries Ltd		MAWP / Temp	259 PSIG @ 140 F					
Serial #	2059.90	CRN #	K 1666.23	MDMT@ Pressure	-20 F @ 259 PSIG				
Corrosion Allowance	0.059"	Shell Material		Shell Thickness					
Year Built	1990	Head Material		Head Thickness					
Diameter	36" OD	Length		Height		RT	RT-2	HT	
Service	Sweet	Next Inspection		Next Insp. Type					
ASME Stamp	Yes	Next Inspection		Next Insp. Type					
PSV Tag #	ID 36886B	CRN#		Set Pressure		125 PSIG			
Manufacturer	Farris			NB#		ASME Stamp			
Type/Model	27-FA45-M20	Serial	459169-8-KE	Inlet Size		1.5"			
Capacity	857 SCFM	Service Company	Unified Valve	Outlet Size		2"			
Service Date	September 20, 2011		Next Service Date						
Valve Location	<input type="checkbox"/> On Vessel <input type="checkbox"/> On Piping <input type="checkbox"/> Vents to Flare <input type="checkbox"/> Vents to Atmosphere	Valve Connection	<input type="checkbox"/> Threaded <input type="checkbox"/> Flanged <input type="checkbox"/> Welded	ABSA CODE TYPE					
				Plant		Process			
				Vessel		Special			
PSV Tag #		CRN#		Set Pressure					
Manufacturer		NB#		NB#		ASME Stamp			
Type/Model		Serial #		Inlet Size					
Capacity		Service Company		Outlet Size					
Service Date			Next Service Date						
Valve Location	<input type="checkbox"/> On Vessel <input type="checkbox"/> On Piping <input type="checkbox"/> Vents to Flare <input type="checkbox"/> Vents to Atmosphere	Valve Connection	<input type="checkbox"/> Threaded <input type="checkbox"/> Flanged <input type="checkbox"/> Welded						

Manway: Yes.

Background:

PSV: Service date and Set pressure was acceptable with no restriction between the valve and the vessel.



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Ladders, Stairs, Platforms & Walkways

Corroded or Broken Parts-
Condition of Coating-
Wear of Ladder Rungs & Stair Treads-
Handrails Secure-
Condition of Flooring on Walkways-
Check Tightness of Bolts-
Check for Corrosion-
Additional comments:

Concrete Supports and Foundations

Steel Supports (Skirts, Bracing)
Check for Corrosion-
Check for Buckling & deflection-
Check Vessel Supports for Tightness-
Check Insulation for Deterioration-
Additional Comments:

Nozzles

Check for Distortion-
If Found; Check Surrounding Shell and Seams for cracks-
Check Condition of Connected Piping and Supports-
Check Condition of Weep Holes in re-pads-
Additional comments:

Electrical, Instrumentation & Grounding Equipment

Sept./06 Check General Condition of Associated Electrical Equipment-
Check General Condition of Associated Instrumentation-
Check Grounding Connections-
Additional comments:

Auxiliary Equipment

Check Gauges and Sensor connections for Defects, Damage, Cracks & Vibration-
Check Sight Glasses for defects, Damage, Cracks & Vibration-
Check Condition and Operation of Associated Valves-
Additional comments:

Metal Surfaces

Check for Corroded Areas-
Check for Cracks at Weld Seams and Nozzles-
Check for Blistering at and below liquid Level-

Internals

Inspection conducted -
Check bubble or step trays for condition
Check vane packing for plugging or mechanical damage
Check down-comers, overflow lines.
Check weirs, baffles, mist pads and coils-
Additional Comments:



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Protective: Coatings / Insulation / Cathodic

Check for External Coating Failure-

Check for internal coating –

General Comment's: Horizontal Separator was found to be in good general condition.

External Inspection:

- Name plate was attached and readable.
- External paint was in fair condition with slight external corrosion present but not measurable.
- Vessel is supported on saddles, shell to saddle welds were in good shape.
- Saddles were bolted securely.
- All external nozzles were in good condition, no leaking flanges, gaskets, or threaded connections.
- All bolting hardware was intact.
- Pressure gauge was in good working order.
- Liquid level sight glass was in good shape with no cracks or leaks.
- No deflection or deformation of the shell, heads or nozzles.
- Repad weep holes were open and no signs of leakage.
- Manway davit arm was in good working order.
- All associated piping was intact and secure.
- Vessel is grounded.
- PSV was located without restrictions, Service date and Set pressure acceptable.
- UT survey found no areas of concern, see attached UT Report.

Internal inspection:

- No internal inspection was carried out at this time.

Recommendations:

Continue to carry out visual inspections and UT Corrosion surveys at the required inspection frequency.

Horizontal Separator is fit for continued service.

X

Blair Verge
Verge's Inspection Services Ltd.

Inspector(s) Blair Verge API 510 Certification #24212



Field Inspection Report



A2664161_Name Plate_14March2012



A2664161_Side View_14March2012



A2664161_Vessel supported on
saddles_14March2012