





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	n 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 Ma	Shell Material				Shell Thickness			
Year Built	1990	Head Material				Head Thickness				
Diameter	36" OD	Length		Height		RT	RT-2	HT		
Service	Sweet	Next Ins	pection			Next Ins	p. Type			
ASME Stamp	Yes	Next Inspection				Next Ins	p. 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	e Date					
Valve Location	On Vessel	Valve Connection		Threaded Flanged Welded		ABSA CODE TYPE				
	On Piping Vents to Flare					Plant		Process		
	Vents to Atmosphere					Vessel		Special		
PSV Tag #		CRN#				Set Pressure			1	
Manufacturer		NB#				NB#		ASME Stamp		
Type/Model		Serial #				Inlet Size	e		1	
Capacity		Service Company				Outlet Size				
Service Date				Next Service	e Date					
Valve Location	On Vessel On Piping Vents to Flare Vents to Atmosphere	Valve Connection		Threaded Flanged Welded						

Manway: Yes.

Background:

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



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 CorrosionCheck for Buckling & deflectionCheck Vessel Supports for TightnessCheck Insulation for DeteriorationAdditional 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 coilsAdditional Comments:



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.

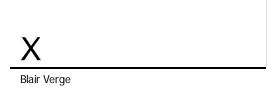
Internal inspection:

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.



Verge's Inspection Services Ltd.

Inspector(s) Blair Verge API 510 Certification #24212





A2664161_Name Plate_14March2012



A2664161_Side View_14March2012



A2664161_Vessel supported on saddles_14March2012

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