





## Field Inspection Report

Client	CNRL			Date of Inspection	August 29, 2013			
Prov. Reg.#	A0437520			Inspection Type	VE and UT			
Equipment	Dehy Tower			Location	Hays			
Tag/Equip. #	V-480			LSD	10-22-012-14W4M			
Vessel Status	In Service			Comp./Unit #				
Manufacturer	OPSCO Industries LTD			MAWP / Temp	1440 PSIG @ 120F			
Serial #	V-2810A2	CRN #	L0916.213	MDMT@ Pressure	-20F @ 1440 PSIG			
Corrosion Allowance	0.125"	Shell Material		SA516-70N	Shell Thickness	1.125"		
Year Built	1998	Head Material		SA516-70N	Heads Thickness	1.140"		
Diameter	24" OD	Length		Height	RT	RT-1	HT	Yes
Service		Next Inspection			Next Insp. Type			
ASME Stamp	Yes	Next Inspection			Next Insp. Type			
PSV Tag #		CRN#		OG2369.5C	Set Pressure	1440 PSIG		
Manufacturer	Ferris			NB#		ASME Stamp		
Type/Model	261A13-120/57	Serial #		Inlet Size	1.5"			
Capacity	9312SCFM	Service Company	Tarpon	Outlet Size	2"			
Service Date	06 /10			Next Service Date				
Valve Location	On Vessel <input type="checkbox"/> On Piping <input type="checkbox"/> Vents to Flare <input type="checkbox"/> Vents to Atmosphere	Valve Connection	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	On Vessel <input type="checkbox"/> On Piping <input type="checkbox"/> Vents to Flare <input type="checkbox"/> Vents to Atmosphere	Valve Connection	Threaded <input type="checkbox"/> Flanged <input type="checkbox"/> Welded					

**Manway: No**

**Background:**

**PSV: Set pressure and service date acceptable with no restrictions between PSV and vessel. Located east of 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: A0437520 Dehy Tower was found in good condition and fit for continued service.**

## **Visual External Inspection:**

- Name plate was attached and readable.
- External paint was in good condition with no external corrosion.
- No Deformation and deflection of the shell, heads, or nozzles.
- No leaking flanged or threaded connections.
- Vessel supported on a skirt welded to bottom head and bolted securely to the floor; no areas of concern were found.
- Vessel was grounded to the building; cable was intact and in good working condition.
- Temperature Gauge was in good working condition.
- Fisher level controller was in good working condition.
- All bolting hardware was intact and secure.
- Liquid level site glass was in good working condition; no leaks.
- Shell to roof interface was in good condition; seal intact with no external corrosion.
- UT corrosion survey found no areas of concern.
- PSV set pressure and service date were acceptable; no restriction between PSV and vessel.

## **Recommendations:**

- Continue to carry out UT corrosion survey and visual inspections at the required inspection frequency.

See attached pictures

## **Final Comment:**

Dehy Tower was found in good general condition and fit for continued service.

X

Blair Verge  
Verge's Inspection Services Ltd.

**Inspector(s) Blair Verge API 510 Certification #24212**

# Field Inspection Report



A0437520\_Name Plate\_29August2013



A0437520\_Bottom side view\_29August2013



A0437520\_Middle section roof to shell interface view\_29August2013



A0437520\_Top section view\_29August2013