

## Pressure Equipment Integrity Management System External Inspection Form

Owner:	EOG Canada Oi	l and Gas	District / Facility:	Northeast BC / Maxhamish		
Location (LSD) ♦:	D-36-I/94-O-14		Surface Location:			
Vessel Data						
A Number + :	SN-04-4616-25	(PV124749)	Serial Number ♦:	04-4616-	25	
CRN •:	T8075.213		Vessel Type:	Separato		
Description +:	Dehy 2 Fuel Gas	Scrubber	Skid / Process:	Dehy 2		
Tag No:	V-200, 6759EOC	G, BF5842	Current Status:	In Service	e	
Course #1 (Main)						
Orientation:	Vertical		Coated?	No	Type:	
Fluids:			Anodes?	No	Type:	Quantity:
Sour♦?	No		Hand Holes?	No	••	
Manufacturer	Opsco Industries	s Ltd.	Manway?	No		Size:
MAWP +:	270 psi		MAWP Temp:	150 °F		MDMT: -20 °F
Shell Material:			Nom. Shell Thick:	0.28 in		
Head Material:			Min. Head Thick:	0.28 in		
Diameter:	6.625 in OD		Length:	28 in		
Year Built♦:	2008	Installation Date + :	Corrosion Allow:	0.0625 in	l	
Volume:			Stress Relieved?	Yes		
Radiography:	RT1		ABSA Grade:	2		
Course #2			o			
Description:			Course Type:			
Fluids:			Sour?			
MAWP:			MAWP Temp:			
Tube/Shell Material:	. <u> </u>		Nom. T/S Thick:			
Head Material:			Min. Head Thick:			
Diameter:			Length:			
PRV #1	Course # 1	PRV Location or Position:	Dehy 2 Fuel Gas Sc	rubber inlet	line	
Serial No +:	586816		Model No:	81-17151	IV09G11	
Set Pressure ♦:	125 psi		Ports:	1" x 1"		
Capacity:	472 scfm		Manufacturer:	Mercer		
Service date ♦:		By:	Car Seal #:			
Block Valve?	No	Install Date: Jul 10, 2013	Tag no:	6759		
PRV #2	Course #	PRV Location or Position:				
Serial No:			Model No:			
Set Pressure:			Ports:			
Capacity:	· · · · · · · · · · · · · · · · · · ·		Manufacturer:			
Service date:		By:	Car Seal #:			
Block Valve?		Install Date:	Tag no:			
Comments:	PIC: 0001, 0002	, 0003_x000D_ ENSIGN OPSCO				

KORTHEEN MATERIALS			Pressure Equipment Integrity Management System External Inspection Form								Form F01-03 ersion 002.06 Page 2 of 4
SN: 04-4616-25		Ve	ssel Descrip	otion: Dehy 2 F	uel Gas Scrub	ber Locat	tion (LSD):	D-36-I	/94-0-14		raye z 014
External Visual Inspection - Vessel											
		<u>Okay</u>		<u>Comment</u>				<u>Okay</u>		<u>Comment</u>	
Name Plate Accessible:		$\boxtimes$				Paint/Coating C	Condition:	$\boxtimes$			
Piping Connections Made	:	$\boxtimes$				Insulation Cond	lition:		N/A		
Inspection Access (i.e. ski	irt):	$\boxtimes$				External Surface	e Condition:	$\boxtimes$			
Bolting Check:		$\boxtimes$	Threaded			Foundation:		$\boxtimes$			
Leaks/Drips/Seeping:		$\boxtimes$				Bending/Warpir	ng/Distortion	$: \boxtimes$			
Dents:		$\boxtimes$				Cuts/Gouges:		$\boxtimes$			
Ladders/Walkways:		$\boxtimes$				Ground Wire Co	onnection:	$\boxtimes$			
Condition of Gauges:		$\boxtimes$				Other Equipmer	nt:	$\boxtimes$			
Observed operating press	sure (s	shell):	0	$\boxtimes$	psi 🗌 kPa	Gauge Range (	shell):		0 to 100	⊠ps	i □kPa
Observed operating press	sure (t	ube):			psi 🗌 kPa	Gauge Range (tube):				□ps	i□kPa
Observed operating tempe	eratur	re (shell):			°F 🗌 °C	Gauge Range (shell):				□°F	C°□
Observed operating tempe	eratur	re (tube):			°F 🗌 °C	Gauge Range (	tube):			□°F	C°□
Detailed Observations/N	lotes	/Comment	s:								
O/S at time of inspection											
External Visual Inspec	ction	- Piping									
		<u>Okay</u>		<u>Comment</u>				<u>Okay</u>		<u>Comment</u>	
Bolting Check:		$\boxtimes$				Insulation Cond	lition:		N/A		
Paint/Coating Condition:		$\boxtimes$				Check for dead legs:					
Leaks/Drips/Seeping:		$\boxtimes$				Bending/Warping/Distortion: 🛛					
Dents:		$\boxtimes$				Cuts/Gouges:		$\boxtimes$			
Supports:		$\boxtimes$				Misalignment:					
External Visual Inspec	ction	– PRV(s)									
		<u>Okay</u>		<u>Comment</u>				<u>Okay</u>		Comment	
PRV Piping Check:						Flare Line Slope	e Check:	$\boxtimes$			
Damage/Leaks:						Seals Intact:					
Weather Protection:						Lifting Lever Ac	ceptable:				
Vessel MAWP		PRV Set Press	sure	PRV Capacity	PRV Size	Last Service Date	Service	d By	Block Valve Present?	Locked Open?	Reportable?
ା ଅନ୍ତ ଅନ୍ତ 270 psi	#1	125 ps	i	472 scfm	1" x 1"				No	No	Yes
pe	#2	· ·									
PRV Check: OK - PRV Set pressure is not greater than vessel MAWP PRV is set too high. Reset PRV to vessel MAWP.											
Detailed Observations/Notes/Comments:											
PRV being serviced at time of inspection											
						Freedo			a product of Nort	hawa Mata 2-1	- Facility and the

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NORTHEIN MATERIALS ENGINEERING	System	NME Form F01-03 Version 002.06 Page 3 of 4		
SN: 04-4616-25	Vessel Description: Dehy 2 F	Fuel Gas Scrubber Location (	(LSD): <u>D-36-I/94-O-14</u>	
Action Item(s) Identified?	<b>Yes No</b> If yes, indicate required	work and RA #:	Field Tag #:	
inspection have determined	spection is restricted to the items detailed the external condition of this equipment t with the identified action items resolved bef	o be:		quipment. Results of this
Not Accepta	ble until the identified action items are reso	olved.		
Inspector Name:	Joey Poapst	Inspector Company:	Northern Materials Enginee	ring
Inspector Signature:	Moopt	Inspection Date:	Oct 12, 2017	
Sketch / Image Area	P.S.I. AI PFAT P.S.I. VEAR BUILT. U. 0075.210 TAG # PE: FZG SCRUBBEL 280 280 255		vel Gas	
Documentation	_	_		
Documents Acquired: Name Plate Information is c	Manufacturer's Da	,	al Operating Permit / Licence	
Name Plate Information is c Design is registered in provi		To be completed through routine nerate an Action Item and arrange for		

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NORTHERN MATERIALS BEGINTERN MATERIALS	NME Form F01-03 Version 002.06 Page 4 of 4			
	sel Description: Dehy 2 Fuel (	Gas Scrubber Locati	ion (LSD): D-36-I/94-O-14	
Service Conditions				
Process Fluids Description:	Sour	Produced Water	OWE	Solids
	Condensed Water	Propane	Air	Frac. Sand
	Liquid Hydrocarbon	Glycol	MG	
Potential Mode(s) of Deterioration:	Pitting		High Temp	Sulphidation
	General Corrosion	Erosion	Cavitation	Under Deposit Corr.
	External Atm. Corrosion	Under Insulation	Mechanical Damage	
Cracking>	□scc	Hydrogen	Fatigue	Other
Area(s) Most Likely to Deteriorate:	Top Head	Bottom Head	Nozzles	Welds
	Attachments	Shell (lower)	Shell (Upper)	Shell (other)
	Tubes	Piping (inlet)	Piping (outlet)	Piping (drain)
Current Mitigation Program?	□Yes ⊠No			
Other Considerations?	(if yes, describe)			
	☐ Yes ⊠ No (if yes, describe)			
Additional Process Monitoring	□Yes ⊠No (if yes, descr	ibe in area below or attach d	etails)	
Fluids Sample (Type / Frequency / Analysis	Req'd)			
Corrosion Monitoring (Coupons / Probes)				
Other (describe)				
Inspection History (Complete this section if the vessel is new a	and a baseline inspection was c	completed or if the vessel is u	used)	
Inspection Company:		Last Inspection D	ate:	
Inspection – Plan Assigned Grade	2 Previous Grade 1	(if Assigned Grade differs fr	om Previous Grade explain in	Notes section below)
Activity Required Ye	<u>s No Interval</u> (years)	<u>Due Date</u> (dd / mmm / yy)	Commen	ts / Justification
Offline Internal Visual				
UT Inspection	] 5	12 / Jun / 18		
Crack Inspection				
Additional Inspection(s)				
External Visual	5	12 / Oct / 22		
PRV service interval	5	10 / Jul / 18		
Notes				
Complete if Assessor is different that	in Inspector			
Assessor Name:		Company:		
Assessor Signature:	Assessment Date			
Report Certification				
Report Certified By (signature):	E. M.	Certificate No:	64230	API