Pressure Equipment Integrity Management System
Internal Inspection Form – Treaters / Heaters / Reboilers / FWKO

General Vessel Data					
Owner:	EOG Canada Oil and Gas			District/Area:	Northeast BC
Facility:	Maxhamish			Location (LSD) +:	D-36-I/94-O-14
A Number + :	SN-REB-01-0141-01-001-R			Serial Number +:	REB-01-0141-01-001-R
CRN ♦:				Vessel Type:	Reboiler
Description ♦:	Dehy #2 G	lycol Regenerat	or/Reboiler	Skid / Process:	Dehy Skid #2
Tag No:	6763, H-30	00		Status:	⊠ In Service □ Out of Service □ Other
Coating / Anode Data					
Internally Coated:		No Coverage:		Coating Type:	
Internal Anodes:	□Yes ⊠I	,		Anode Type:	
New Anodes Installed:	□Yes ⊠I	No Quantity:		Anode Type:	
Firetube / Tube Bundle					
	⊠Yes □I	No Quantity:	1	Serial Number(s):	1-14 1-1
Orientation:	Horizontal			Dimensions:	12" x 13'
Inspection					
External Nozzles (Viewe	ed from outs	<u>ide)</u>	N/A – not opened at time of ir	nspection	
Signs of internal corrosid	on?	□Yes □No _			
Flange faces deterioration	on?	□Yes □No			
Vessel Cleanliness					
Cleaning adequate?		□Yes ⊠No _	Not cleaned		
Scale/build-up remaining	g?	□Yes ⊠No _			
Internal Access					
Baffles/Weirs present?		□Yes ⊠No			
Other obstructions?		□Yes ⊠No _			
Firetube / Tube Bundle					
Indicate the degree of so	cale and sur	face deposits or	n the firetube / tube bundle: $ig \!$]Nil □Light □Moo	lerate 🗆 Heavy
Was the firetube sandbla	asted: 🗆 Ye	es □No □N//	A ⊠Not Required		
Surface Condition (pittin	a. aeneral c	orrosion): In	good overall condition. Some	pitting on tip of the fi	red side ~15 feet from the tubesheet. Deepest pit was
1.5mm deep.	0,0				·····
Distortion, warping, blist	ering, or oth	er deformation of	of the firetube / tube bundle?:	□Yes ⊠No If yes	, describe:
Were the welds inspecte	ed using MP	I? ⊠Yes □No	If yes, indicate results: M	PI performed by Pro	be Corrosion Services Ltd.
No relevant indications v	were noted o	during the exami	nation.		
Permanent Yoke Serial	Number:	PC-001		Procedure: P	C-MT1 Revision 1 - 2014
Wet Visible Magnetic Pa	articles:	Ardrox 8031		Visible Light: M	inimum 100fc (1000lux) @ surface of part
				Form g	enerated by EITigre, a product of Northern Materials Engineering Inc.

KOTHER MATERIALS	NME Form F01-05 Version 005.05 Page 2 of 6			
A#: <u>REB-01-0141-01-001</u>	-R Vessel Description	Dehy #2 Glycol n: Regenerator/Reboiler	Location (LSD):	1 490 2 01 0
Internal Coating – N/A – Not	coated			
Low voltage holiday detection	n performed? □Yes □No	If yes, indicate results:		
		Model:		
Condition of anodes:				
Overall condition of coating:				
Areas of Dis-bonding, bubble	es, or blistering:			
Coating Repairs (performed	by, product used, ambient te	mp, etc.):		
Surface and Nozzles	o (motol substrate of boliday	a). Cood surface correction of	recent on upper chall as viewed from manual	
	s (metal substrate at holidays		present on upper shell as viewed from manway	
Condition of nozzle opening	s:Good as viewed from m	anway		
Internal Attachments				
Condition of mist extractor:	N/A			
Internal piping:	N/A			
Bolting and supports:	N/A			
Vessel Welds	an ∑Na lfuan danarihau			
Selective weld attack?				
NDE Crack inspection perfor	rmed? □Yes ⊠No If yes,	indicate results:		
			Form generated by EITigre, a product of Nor	thern Materials Engineering Inc.



Figure 1: Reboiler Overview From Manway



Figure 2: Reboiler Lower Shell Overview Form generated by EITigre, a product of Northern Materials Engineering Inc.



Figure 4: Firetube Overview

Form generated by ElTigre, a product of Northern Materials Engineering Inc.



Figure 5: Firetube Internal Overview



Figure 6: Pitting Present On Firetube

KORHEN MATERIALS BIOINTEEN	Pressure Equipment Integrity Management System Internal Inspection Form – Treaters / Heaters / Reboilers / FWKOs					
A#: REB-01-0141-01-001-R	Dehy #2 Glycol Vessel Description: Regenerator/Reboil	er Location (LS	SD): D-36-I/94-O-14	Page 6 of 6		
Additional Comments and Fiel		, ,				
Action Itom/o) Identified 2	ίαα. ⊠Na lfvoo indiasta roquirod work kalaw					
Action item(s) identified?	Yes ⊠No If yes, indicate required work below		Field I ag #:			
Results of this inspection have de Acceptable Acceptable with the	tion is restricted to the items detailed above and etermined the internal condition of this equipmer e identified action items resolved before the asso il the identified action items are resolved	nt to be:		uipment.		
AB-506 Grade / Intervals						
Previous Grade:	_1	Assigned Grade:	2			
Internal Interval:	5 years	Next Internal Due:	October 11, 2022			
Inspector Name: Inspector Signature:	Joey Poapst	Inspection Company:	Northern Materials Engin October 11, 2017	eering		
Report Certification Report Certified By (signature):	Moops	Certificate No:	64230 ed by ElTigre, a product of North	API 510		