

FORM: IMS001 – Devon Standard Inspection Form

Equipment:			
District:	Fairview	Equipment Name:	Glycol Reboiler
Plant / Area:	Puskwaskau	Equipment Number:	95261-AI-1
LSD:	3-26-74-1W6	Manufacturer:	Propak
Functional Block (Process Unit):	DPCU	Manufacture Serial Number:	95261-AI-1
Equipment Type:	Indirect fired Heater (Noncode-Vessel)	Provincial Registration Number:	NA
CRN:	N1350.2		
Inspection Personnel:			
Inspection Company:	Devon	Extent of Inspection:	Full Internal
Name of Inspector:	Jason McGovern	Date of Inspection:	June 12, 2011
Inspection Summary:			
<ul style="list-style-type: none"> - Short term corrosion rate = 0.30"/y on nozzle neck of tube bundle. Weld Build up completed. - Flange face between still column and reboiler is thinning - System was tied into underground drain system this appears to have reduced the corrosion both in depth, (Down to half), as well as very little area is now effected. 			
Inspection Details:			
<p>Shell:</p> <ul style="list-style-type: none"> - Corrosion is localize to the 12" nozzle neck to which the tube bundle is attached. Pitting is 0.035" deep. Nozzle neck was replaced in Jan 2008, weld build up done in 2009, 2010. Corrosion was from 1 o'clock to 3 o'clock moving clockwise. All pits were filled in. - No other area of concern were noted on shell. <p>Tube Bundle:</p> <ul style="list-style-type: none"> - No indications of concern were noted on the bundle. 4 tubes were plugged in 2008 to attempt to reduce corrosion on shell. <p>Channel Head:</p> <ul style="list-style-type: none"> - No indications were noted on the channel head. <p>Still Column:</p> <ul style="list-style-type: none"> - Flange face that connects to reboiler shell is thinning. See attached photos - Internal corrosion was noted on lower shell. Scale was too tough to scrape away, External UT is required to determine extent of corrosion. - Coil has been upgraded to Stainless steel. 			
Repairs:			
<ul style="list-style-type: none"> - Weld build up was completed on all areas of corrosion. Build up was not ground flush, in order to provide additional corrosion allowance in effected areas. 			

NDE Reports:			
Not required.			
Recommendations:			
<p>-It is recommended that the line that vents to underground tank be heat traced. Corrosion rates have been reduced since inspection in 2010.</p> <p>- Next inspection due in 2012.</p>			
Certification:			
Inspector Signature:		Provincial Certification Number:	
Date:	June 18, 2009		
Pictures:			
		Picture 2 (
Picture 3 (Desc.):		Picture 4 (Desc.)	
Picture 5 (Desc.):		Picture 6 (Desc.)	

Note:

1. Contractor inspector to submit complete inspection form in PDF or word with pictures attached as JPG.
2. Individual pictures must be in a format that is less than 2 MB.