GENERAL PRESSURE VESSEL INFORMATION Job # 05.001541							Job # 05.001541			
District: Ft St	John B.C.									
Facility: Townsend Battery					Location (LSD): a – 17 – J / 94 – B – 09					
Vessel Name & Equipment Number: Low Pressure Flare Knoo				•	· · · · · · · · · · · · · · · · · · ·					
Orientation: Horizontal										
				Doo	la4e	I				
Status: O	perating	PRESSIII	RE VE			ory Inspection				
PRESSURE VESSEL NAMEPLATE DATA "A" or "G" or "S" (Sask.) or BC Registration Number. CRN Number										
A 409983					K 2109.12					
Vessel serial number: 12572					Size : 96 in. x 10 ft.					
Shell thickness:					Shell material: SA 516 70					
Head thickness:					Head material: SA 516 70					
Tube wall thick	ness:				Tube material:					
Tube diameter: Channel thickne					Tube length:					
Channel thickne				Cna	Channel material:					
Design pressure	:	Shell: 50 psi				Operating pressure		Shell:		
	Tubes:	Tubes:					Tubes:			
Design Temp.	Shell: 2	200 deg F	Ope	eratin	g temperature	Shell:				
37 31'1	Tubes:		11		279	Tubes:				
X-ray: Nil Code parameters: ASME VIII / Div 1					Heat treatment: Nil Coated: Yes					
Manufacturer: F		/ DIV I			Year built: 2002					
Corrosion allow					Manway: Yes					
Corrosion anow	ancc. 3.2 mm	PRESSURES	AFFT			EPLATE DATA				
	3.5 0				17.1.1					
Tag No	No Manufacture Model Serial		ial # Set Press		Capac	eity	Size			
Serv By Date		Code Stamp	Blo	ock Valve	alve Location		CRN#			
		SERVICE CONI	DTION	NS-INDICA'	TE A	LL THAT APP	LY		-	
				Oil	Ga				Water X	
Amine LPG			Condensate			Air		Glycol		
Other (Describe):									
Inspection Interval PSV Service Interval Max 5 Years (Determined by MIC in conjunction with Chief Inspector following guidelines of CNRL's Owner-User Inspection Program) Reports reviewed and accepted by:										
Mechanical Integ	grity Coordin	ator					_Date			
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External Inspection Items	G	F	P	N/A	Comments
External inspection rems		-	-	1 1/2 1	Comments
Insulation: Verify sealed around manways,					Tar covered foam insulation. Good condition, no open or torn
nozzles, no damage present, and there is no	X				sections.
egress of moisture.					
External Condition: Assess paint condition,					
areas peeling, record any corrosion, damage,				X	
etc (record location, size and depth of					
corrosion or damage)					
Leakage: Record any leakage at flanges,	X				No leaks detected.
threaded joints, weep holes on repads, etc.					
Saddles: Assess condition of paint, fire					No buckling or distortion to saddles – no mechanical damage.
protection, concrete. Look for corrosion,	X				
buckling, dents, etc. Look at vessel surface					
area near supports. Verify no signs of leakage					
at attachment to vessel and attachment welds					Skid package is grounded.
are acceptable. Ground wire attached?					
Anchor Bolts: Hammer tap to ensure					Firmly welded to deck.
secure. Look for cracking in treads or signs of	X				
deformation.					
Concrete foundation: Check for cracks,					
spalling, etc.				X	
Ladder / Platform: Describe general					
condition, ensure support is secure to vessel,				X	
describe any hazards.					
Nozzle: Assess paint, look for leakage, and					No distortion – no leaks.
ensure stud threads are fully engaged. Record	X				Studs fully engaged to nuts.
any damage, deflection, etc. Are nozzles					No gussets.
gusseted?				37	NT.
Gauges Ensure gauges are visible, working,				X	No gauges.
no leakage, and suitable for range of MAWP/ Temp.					
External Piping Ensure pipe is well					Firmly supported – no deflection – all clamps in place.
supported.	X				Piping is insulated – no exposed metal.
Valving: Ensure no leaks are visible. Valves	Λ				Well supported – no leaking detected.
are properly supported and chained if	X				wen supported – no teaking detected.
1					
PSV: Ensure PSV is set at pressure at or	+		-		Atmospheric – discharges to flare.
below that of vessel. Discharge piping is same	1			X	Tumospheric – discharges to hare.
size as inlet to valve and is properly supported	1			1	
and routed. Ensure no block valves between	1				
psv and vessel or if there are they are locked	1				
open.	1				
NDE methods: Was UT/ MPI done on vessel	1			X	No NDE at this time.
(MI coordinator to review results)	1				

Recommendations or corrective actions: Vessel is Fit for Service or describe corrective actions required)

(MIC to review corrective actions with Operations, discuss with Chief Inspector where necessary, and get remedial action implemented)

Recommendations: No recommendations at this time.

Summary: This vessel is in very good overall condition, visual external carried out – internal of vessel is coated – no items of concern.

Vessel is fit for service.

Inspected By: D. Wiedman March 21 – 2008

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L.P. Flare Knock Out Drum - A 409983

