			Canadian N GENERAL PRE				ON RTD Jo	b# 10.110	181		
District: Fort S	Saint	John B.C.			Skid No	). Dehy #1					
Facility: Ladyfern (a-84-G)						Location (LSD): <b>a-84-G / 94-H-1</b>					
			ber: Glycol Contactor								
Orientation: V											
	1 serv				Dogula	tory Inspection					
Status. II	I SELV		PRESSURE VE	SSEL	~	<u> </u>					
"A" or "G" or "S" (Sask.) or BC Registration Number						CRN Number					
RAE4819						K-2684.1					
Vessel serial number: 01168-401						Size: 60 in. x 35 ft.					
Shell thickness: 57.2 mm						Shell material: SA516-70N Head material: SA516-70N					
Head thickness: 54.0 mm Coil 1 thickness:						Coil 1 material:					
Coil 2 thickness:					Coil 2 material:						
Channel thickr					Channel material:						
Design pressure Shell: 1740 psi (		0 psi (11997 kPa)				Shell:					
		Tubes:			Operating pressure						
							Tubes:				
Design Temp.		Shell: 200	) deg F. (93.3 C)		Operating temperature		Shell:				
		Tubes:				Tubes:					
X-ray: Nil					Heat treatment: Yes						
Code parameters: Asme VII, Div I					Joint efficiency (if on nameplate):						
Manufacturer: Propak Systems Ltd					Year built: 2002						
Corrosion allo	wance	e: Not stated			Manwa	ŧ.					
	r		PRESSURE SAFET	Y VAL	LVE NAM	AEPLATE DATA	<u>1</u>				
PSV Tag #	ag # Manufacturer Model S		Seria	al #	Set Pressure	Capacity	Size				
2169F	Anderson 84314F152/S1/Nace ( Greenwood		01/4	0827	1740 PSI	11075 scfm	1.5" 1500 x 2" 300				
Serviced By Date Block Valves C		CRN	1	Code Stamp	Location						
Unified	02/09/2002 No (		0G4	369.5C	UV	Piping	Piping				
			SERVICE CONDITIO	NS-IN	DICATE	ALL THAT API	PLY	÷			
Sweet X		Sour					Gas X Water		Water X		
Amine		LPG			densate		Air Glycol		Glycol X		
Other (Describ	e):	•		•					-		
	,				DOTIO	• • -					
Inspection Inter	rval _				PSV S	Service Interval					

(Determined by MIC in conjunction with Chief Inspector following guidelines of CNRL's Owner-User Inspection Program)

Reports reviewed and accepted by:	
Mechanical Integrity Coordinator	Date

Fill out all forms as completely as possible. <u>All information</u> is important! Use back of sheets to record additional information or sketch if required. Copy of report to be filed by MIC at site, and copy sent to Chief Inspector

External Inspection Items	G	F	Р	N/A	Comments		
<b>Insulation</b> Verify sealed around manways,	X				Vessel is not insulated.		
nozzles, no damage present, and there is no							
egress of moisture.							
<b>External Condition</b> Assess paint condition,		X			Minor paint chips_ surface rust present_ no corrosion.		
areas peeling, record any corrosion, damage,					initial paint emps_surface rust present_ no corrosion		
etc (record location, size and depth of							
corrosion or damage)							
Leakage Record any leakage at flanges,	X				No leaking detected.		
threaded joints, weep holes on repads, etc.	Δ				No leaking detected.		
Skirt/ Saddle Assess condition of paint, fire	X				No distortion to skirt – no corrosion at shell to skirt – no		
protection, concrete. Look for corrosion,	Λ				leaks.		
					leaks.		
buckling, dents, etc. Look at vessel surface					Cusumdad diment to larger shirt		
area near supports. Verify no signs of leakage at attachment to vessel and attachment welds					Grounded direct to lower skirt.		
are acceptable. Ground wire attached?							
Anchor Bolts Hammer tap to ensure secure.	Х				Anchor bolts secure to base.		
Look for cracking in treads or signs of							
deformation.							
Concrete foundation Check for cracks,				Х			
spalling, etc.							
Ladder / Platform Describe general	Х				Welded and bolted securely.		
condition, ensure support is secure to vessel,							
describe any hazards.							
Nozzle Assess paint, look for leakage, and	Х				No distortion – no leaks.		
ensure stud threads are fully engaged. Record					No short bolting.		
any damage, deflection, etc. Are nozzles					No gussets.		
gusseted?							
Gauges Ensure gauges are visible, working,	X				Suitable for operating range of vessel.		
no leakage, and suitable for range of MAWP/							
Temp.							
External Piping Ensure pipe is well	X				Well supported, no deflection, all clamps in place.		
supported. All clamps, supports, shoes, etc. in					No paint failure – no corrosion.		
place. Look for evidence of structural					F		
overload, deflection, etc. Paint condition,	1						
external corrosion?							
Valving Ensure no leaks are visible. Valves	X				Well supported – no leaks.		
are properly supported and chained if					No short bolting.		
necessary.					Tto blott bolting.		
<b>PSV</b> Ensure PSV is set at pressure at or below	X				Located on outlet piping - Set at MAWP of vessel.		
that of vessel. Discharge piping is same size as					Seal is intact. No block valve.		
inlet to valve and is properly supported and	1				PSV is overdue for servicing.		
routed. Ensure no block valves between psv	1				I BY IS OVELUUE IOI SELVICING.		
1							
and vessel or if there are they are locked open.	•				Tildung comin dhigher congression and the state of the st		
NDE methods Was UT/ MPI done on vessel	Х				Ultrasonic thickness survey carried out – nozzle and pipe		
(MI coordinator to review results)					metal thickness detected below nominal. Thickness		
					calculations carried out:		
					UT point 825 (2" nozzle) – nominal thickness is 8.7mm /		
					min thickness is 8.6mm / T min thickness is 3.4mm.		
					UT point 830 (2" pipe) – nominal thickness is 8.7mm / mi		
	1				thickness is 7.3mm / T min thickness is 3.4mm.		

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

Recommendations: Have PSV serviced as last service date is 2002.

**Summary**: This vessel is in good overall condition, visual external and ultrasonic thickness survey carried out – nozzle and pipe metal thickness detected below nominal.

Short term corrosion rate based on greatest thickness loss (nozzle) 0.033mm per year. Retirement Date to "T"min is year 2167.

Vessel is fit for service.



