	G	Canadian Natu SENERAL PRESSUI		esources Limited SSEL INFORM			Job # 1	105.01649
District: Fort St John, B.C.				Skid No.				
Facility: Pee Jay Unit #1				Location (LSD): d-39-E / 94-A-16				
Vessel Name Equip	ment Number: Instru	ment Air Receiver						
Orientation: Vertica								
Status: In Serv	ice	Regulatory I	nspection					
		PRESSURE VESS	SEL N.					
"A" or "G" o	CRN Number: C-7228.1234567890T							
Vessel serial numbe	Size: 24in x 72in							
Shell thickness: 4.6		Shell material: SA 414 G						
Head thickness: 4.0		Head material: SA 455						
Tube wall thickness Tube diameter:		Tube material:						
Channel thickness:		Tube length: Channel material:						
Design pressure	Operating pressure		Shell:					
C 1				Tubes:				
Design Temp.	Shell: 650 Deg F			Operating temperature		Shell:		
	Tubes:				Tubes	:		
X-ray: N/S	1	Heat treatment: N/S						
Code parameters: A	Coated: No							
Manufacturer: Steel	Year built: 1980							
Corrosion allowance		Manway: No						
	P	RESSURE SAFETY	VALV	E NAMEPLATI	E DATA			
PSV Tag #	Manufacture Model #			Serial # Se		essure	Capacity	Service
					(kPa)		(scfm)	Date
4810F	Mercer	81-17151V09G11		A 82705	165 Psi		608	07/08
CRN#	Service By	Block Valve		Location	Size		Code Stamp	
OG2606.5C	Unified valve	NO		Top head	1" x 1"		UV/NB	
	SER	VICE CONDITIONS	S-INDI	ICATE ALL TH	AT APPL	Y	1	
Sweet	eet Sour Oi			I		Gas		Water
Amine	Amine LPG Co				ndensate		Air X Gl	
Other (Describe):								
Inspection Interva (Determined by MIC in		pector following guidelines	of CNR	PSV Service Int L's Owner-User Inspe		m)		
Reports reviewed and ac Mechanical Integr	ity Coordinator	formation is important!	Use back	k of sheets to record :		ate	or sketch if require	
		py sent to Chief Inspector		a de dicess to record to	III		or sheem in require	···

External Inspection Items	G	F	P	N/A	Comments
Translation VI of Control of Control					None
Insulation Verify sealed around manways, nozzles, no damage present, and there is no egress of moisture.				X	None.
External Condition Assess paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)	X				Paint in good condition with the top layer peeling on approx. 30% of vessel. No exposed metal or external corrosion observed.
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	X				No leaks observed.
Saddle/skirt Assess condition of paint, fire protection, and concrete. Look for corrosion, buckling, dents, etc. Look at vessel surface area near supports. Verify no signs of leakage at attachment to vessel and attachment welds are acceptable. Ground wire attached?	X				Support legs: This vessel support legs are in good condition, no signs of damage or leakage to attachment welds. Ground firmly secured through skid unit.
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				Firmly bolted to skid deck, no signs of deformation.
Concrete foundation Check for cracks, spalling, etc.				X	None.
Ladder / Platform Describe general condition, ensure support is secure to vessel, and describe any hazards.				X	None.
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	X				Threaded nozzles with threads properly engaged. No damage or deflections observed – no leaks. Paint in good condition with no surface corrosion. Nozzles are not gusseted.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/Temp.			X		No gauges noted.
External Piping Ensure pipe is well supported. All clamps, supports, shoes, etc. in place. Look for evidence of structural overload, deflection, etc. Paint condition, external corrosion?	X				Piping is well supported; all clamps, supports, and shoes are in place. No structural overloads or deflections noted. Paint in good condition – no exposed metal.
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	X				Valves are properly supported with no visual leakage noted.
PSV Ensure PSV is set at pressure at or below that of vessel.					Location: Top head - set below MAWP of vessel. Discharge piping is same size as outlet of valve. PSV seal in place. No block valve. PSV is properly supported.

NDE methods Was UT/ MPI done on vessel (MI coordinator to review results)	X	Ultrasonic thickness survey carried out - head metal thickness detected below nominal. Thickness calculations carried out: Head: Nominal thickness is 4.0 mm / min thickness is 3.3
		mm / T min thickness is 3.5 mm using current PSV set

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)

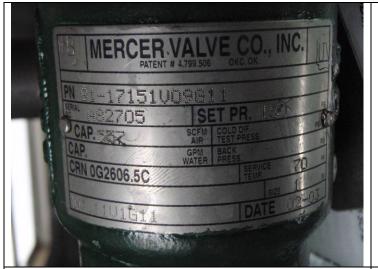
Recommendations: 1. Drop PSV set pressure to 125 PSI to ensure sufficient metal thickness exists for safe operation, or Replace vessel – built in 1980, general corrosion throughout bottom head – maybe it's just time. 2. Install a pressure gauge.

Summary: This vessel is in fair condition, visual external and ultrasonic thickness inspection carried out-head metal thickness detected below nominal. The bottom head thickness has dropped from 4.9 mm to 3.3 mm in 3 years. Retirement date is based on most aggressive corrosion rate - 4.9 mm minus 3.3 mm = 1.6 mm divided by 3 years = .53 mm per year. T min at 125 PSI is 2.5 mm so 3.3 mm minus 2.5 mm = .8 mm divided by .53 mm = 1.5 years plus 2011 = Retirement date of yr 2012.

Vessel is not fit for service at current PSV set pressure and should be replaced.

Inspected By: Brent Agrey Date: March 9, 2011







PSV data tag PSV service tag

