District: Fort St. John, BC Skid No. Line Heater Building Location (LSD): b-13-B / 94-G-01 Vessel Name Equipment Number: Fuel Gas Scrubber Orientation: Vertical Status: In Service Regulatory Inspection PRESSURE VESSEL NAMEPLATE DATA "A" or "G" or "S" (Sask.) or BC Registration Number. A0408372 CRN Number: K-9874.231 Vessel serial number: 60564-200 Size: 24 in. x 60 in.								
Facility: BEG Main Compressor Station Vessel Name Equipment Number: Fuel Gas Scrubber Orientation: Vertical Status: In Service Regulatory Inspection PRESSURE VESSEL NAMEPLATE DATA "A" or "G" or "S" (Sask.) or BC Registration Number. A0408372 CRN Number: K-9874.231								
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Vascal sarial number: 60564-200 Siza: 24 in v 60 in	K-9874.231							
v Cool octian municet. 00304-200 Size. 24 III. X 00 III.	Size: 24 in. x 60 in.							
Shell thickness: 9.5 mm Shell material: SA 516 70N								
	Head material: SA 516 70N							
	Tube material:							
	Tube length:							
	Channel material:							
Design pressure Shell: 1724 Kpa Operating pressure Shell:	Shell:							
Tubes:	Tubes:							
Shell: 38°C								
Design Temp. Operating temperature Shell:	Shell:							
Tubes: Tubes:	Tubes:							
X-ray: RT-3 Heat treatment: No	Heat treatment: No							
Code parameters: ASME VIII, Div 1 Coated: No								
Manufacturer: Nusco Ltd. Year built: 1996								
Corrosion allowance: 1.6 mm Manway: No								
PRESSURE SAFETY VALVE NAMEPLATE DATA								
PSV Tag # Manufacture Model # Serial # Set Pressure Capacity Ser	vice							
(kPa) (scfm) D	ate							
	2006							
	1000							
CRN# Service By Block Valve Location Size Code Stamp								
0G2606.5C Unified No Upper Shell 2" X 2" UV/NB								
SERVICE CONDITIONS-INDICATE ALL THAT APPLY								
Sweet X Sour Oil Gas X Wat	er							
Amine LPG Condensate Air Glyc	ol							
Other (Describe):								
Inspection IntervalPSV Service Interval								
(Determined by MIC in conjunction with Chief Inspector following guidelines of CNRL's Owner-User Inspection Program)								
Reports reviewed and accepted by:								

External Inspection Items	G	F	P	N/A	Comments
Insulation Verify sealed around manways, nozzles, no damage present, and there is no egress of moisture.				X	No insulation.
External Condition Assess paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)	X				Paint is in good overall condition – No chipped or exposed metal - no previous corrosion.
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	X				No leaking detected.
Saddle 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				No saddle. No corrosion – no missing paint. Ground cable secured to skid unit.
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				Fuel Gas Scrubber is firmly welded to skid floor. No signs of cracking at the time of inspection.
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				All threads connections fully engaged. No deflection – no leaks. No gussets.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/Temp.	X				Gauge is visible, appears to be functional, no leaks and suitable for range of Temp. Pressure gauge 0 to 200 PSI / 10 PSI @ gauge. Temperature gauge -40 - 120 deg F / 75 deg F @ gauge.
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				Well supported – no deflection – all clamps and shoes in place. Piping is painted and in good condition – no surface corrosion found.
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	X				Well supported – no leaks.
PSV Ensure PSV is set at pressure at or below that of vessel.	X				Located on upper shell – set below the fuel gas scrubbers MAWP. Discharge piping is larger than the inlet to PSV. No block valve present. Seal is intact. PSV vents to flare.
NDE methods Was UT/ MPI done on vessel (MI coordinator to review results) Other	X				Ultrasonic thickness survey carried out-no metal thickness detected below nominal minus corrosion allowance.

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)

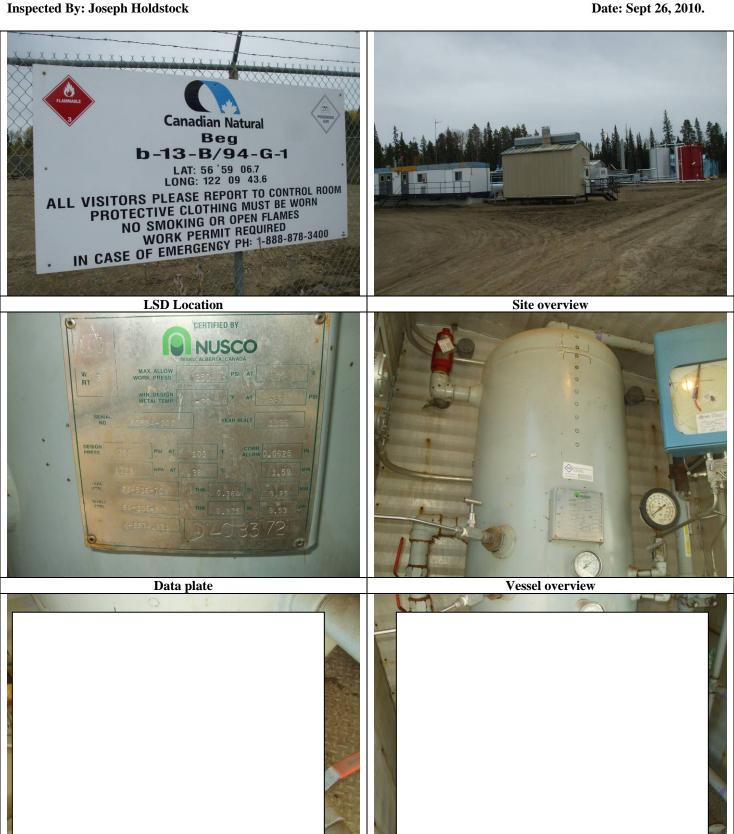
Recommendations: 1. No recommendations at this time.

Summary: This vessel is in good over all condition, visual external and ultrasonic thickness survey carried out-no metal thickness detected below nominal minus corrosion allowance.

Long term corrosion rate based on greatest thickness loss (shell) 0.050mm per year. Retirement Date to "T"min is year 2086.

Vessel is fit for service.

Anchored securely

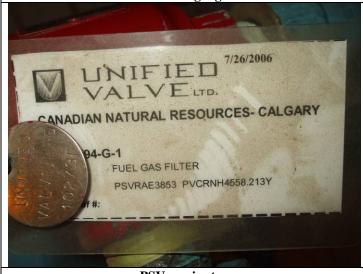


Lower shell overview





Pressure gauge



Temperature gauge



PSV service tag

PSV service tag