

HORIZONTAL VESSEL - GENERAL INSPECTION FORM						
District: Grande Prairie			Skid No.			
Facility: Clear Hills Gas Plant			Location (LSD): 16-11-88-13 W6M			
Vessel Name & Equipment Number: Stabilizer Feed Drum						
Orientation: Horizontal						
Status: In Service			Regulatory Inspection			
PRESSURE VESSEL NAMEPLATE DATA						
"A" or "G" or "S" (Sask.) or BC Registration Number.  3129683			CRN Number  N-0043.2			
Vessel serial number: 35-03278-3000			Size: 24nch dia. X 20.0 feet length			
Shell thickness: 22.23 mm			Shell material: SA-516-70			
Head thickness: 23.8 mm			Head material: SA-516-70			
Tube wall thickness:			Tube material:			
Tube diameter:			Tube length:			
Channel thickness:			Channel material:			
MAWP	Shell: 300 PSI		Operating pressure	Shell:		
	Tubes:			Tubes:		
Design Temp.	Shell: 100 F		Operating temperature	Shell:		
	Tubes:			Tubes:		
X-ray: RT-1			Heat treatment: Yes			
Code parameters: ASME VIII Div 1			Joint efficiency (if on nameplate):			
Manufacturer: Maloney Steel			Year built: 1995			
Corrosion allowance: 3.2 mm			Manway: Yes			
PRESSURE SAFETY VALVE NAMEPLATE DATA						
Tag Number(s)	Set Pressure PSI	CRN #	Manufacturer /Model / Serial# and Code Stamp	Capacity (Scfm)	Size	Set Date
Out for Service						
SERVICE CONDITIONS-INDICATE ALL THAT APPLY						
Sweet	<b>Sour X</b>		Oil	<b>Gas X</b>		<b>Water</b>
Amine	LPG		<b>Condensate X</b>	Air		Glycol
Other (Describe):						

Inspection Interval \_\_\_\_\_ PSV Service Interval \_\_\_\_\_

(Determined by MIC in conjunction with Chief Inspector following guidelines of CNRLs Canada Owner-User Inspection Program)

Reports reviewed and accepted by:

Mechanical Integrity Coordinator \_\_\_\_\_ Date \_\_\_\_\_

Fill out all forms as completely as possible. All information is important! Use back of sheets to record additional information or sketch if required.

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Internal Inspection Items	G	F	P	N/A	Comments
<b>Coating</b> Assess coating. Describe area coated, general condition of coating.				X	
<b>Anodes.</b> How many, type, condition. % consumed. Are they being replaced?				X	
<b>Internal Piping</b> Is there any? If so, carbon or stainless steel. Describe condition, dents, corrosion, erosion, etc. Ensure supports are secure and any bolts are suitable for future use.				X	<b>All nozzles are in good condition. Welds appear sound. No signs of erosion or corrosion. No obstructions.</b>
<b>Trays</b> How many? Type of material. Are valves in place? Check for erosion/ corrosion; wear on tray valve legs. Cleanliness?				X	
<b>Baffles, deflector plates, etc.</b> If present, describe condition. Look closely at welds attached to vessel wall.	X				<b>Inlet Deflector Plate is in good condition. No signs of erosion or corrosion. No mechanical damage.</b>
<b>West Head</b> Note all corrosion, erosion or mechanical damage. (If vessel is horizontal identify direction of this head)	X				<b>Minor pitting on bottom half of head. Pit depth to 0.050 inch max. This pitting covers approximately 20 % of lower head area. Please see pictures.</b>
<b>East Head</b> Note all corrosion, erosion or mechanical damage. (If vessel is horizontal identify direction of this head)				X	<b>Head is in good condition. No pitting. No erosion. Minor surface corrosion exists on lower half of head.</b>
<b>Shell Sections</b> Record number of shell sections. Record location, size and depth of all erosion, corrosion or mechanical damage. Describe general condition. If any corrosion greater than corrosion allowance is observed in either shell or head, discuss with Chief Inspector before closing vessel.	X				<b>A product build up exists on upper half of shell. A surface corrosion exists in this area. No signs of pitting or erosion.</b>
<b>Demister pad</b> Is it in place? Is it clean? If any corrosion is apparent in vessel, lift pad and check top head for corrosion.				X	
<b>Welds</b> Inspect all welds, including attachment welds. Record all service-related damages and if there is any discuss with Chief Inspector before closing.	x				<b>No signs of erosion or cracking. (limited access)</b>
<b>Repairs Required.</b> If yes, ensure procedure and copy of AB 40 is on file, and one sent to local ABSA, and Chief Inspector				X	
<b>NDE</b> Was any NDE done. ( MI coordinator to review results)				X	
<p><b>Recommendations or corrective actions : Vessel is Fit for Service or describe corrective actions required)</b>                      (MIC to review corrective actions with Operations, discuss with Chief Inspector where necessary, and get remedial action implemented)  <b>Other Observations: None.</b>  <b>Recommendations: None at this time.</b></p> <p><b>Summary:</b> This vessel is in good overall condition, visual internal inspection with limited access carried out</p> <p><b>Vessel is fit for service</b></p>					



Overview



Data Plate



Gasket Seating Face



Manway Nozzle



West Head - Pitting Area



Pitting on West Head



Maximum 0.050 inch pit depths (West Head)



Inlet Deflector Plate



Lower Shell



Boot



Outlet Nozzle



Demister Pad



Upper Shell – Product Build up and Surface Corrosion



East Head



2 inch Nozzle