			dian Natural PRESSURE		s Limited NFORMATION		Job# 05.001539	
District: Ft St	John B.C.							
Facility: Halfway Battery					Location (LSD): 05 - 12 - 87 - 25 - W6M			
	& Equipment Nun	ther: High Pressu	re Flare Kno					
Orientation:								
				Damila	laur Tuon action			
Status: C	Operating	pprodu	DD VECCEI	Regulatory Inspection NAMEPLATE DATA				
	(a) (a 1) B C F							
	"S" (Sask.) or BC F 23425	Registration Number	er.	CRN Number Non Code				
Vessel serial n				Size: 72 in. x 20 ft.				
Shell thickness				Shell material: SA 36				
Head thickness				Head material: SA 516 70 N				
Tube wall thick				Tube material:				
Tube diameter:				Tube length:				
Channel thickn	iess:			Channel material:				
Design pressur	Shell: Atm	os.		Operating pressure		Shell:		
Bough procom	Tubes:					Tubes:		
Design Temp.	Shell:			Operati	ng temperature	Shell:		
	Tubes:		0.1			Tubes:		
X-ray: Nil				Heat treatment: Nil				
Code paramete				Coated				
Manufacturer:				Year built: 1998				
Corrosion allov	wance: Not Stated			Manwa				
		PRESSURES	SAFETY VA	LVENAN	IEPLATE DATA	<u> </u>		
Tag No	Tag No Manufacture		Serial #		Set Press	Capacity	Size	
Serv By	Date	Code Stamp	Block Va	lve	Location	CRN#		
		SERVICE CON	DTIONS-IN	DICATE.	ALL THAT API	'LY	<u> </u>	
Sweet	Sweet Sour X					Gas X	Water X	
Amine LPG			Con	Condensate X		Air	Glycol	
Other (Describ	e):							
Inspection Inter (Determined by MIC	val C in conjunction with Cl	nief Inspector following	g guidelines of (_	Max 5 Years ogram)		
Reports reviewed an Mechanical Into	d accepted by: egrity Coordinato	r				_Date		
Page 1	of 5	ONRL: Halfway B	attery		H.P. Flare Knock	Out	C 23425	
	12		T					

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.	х				Good condition, no open or torn sections.
External Condition: Assess paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)				Х	No loose or flaking paint.
Leakage: Record any leakage at flanges, threaded joints, weep holes on repads, etc.	Х				No leaks detected.
Saddles: Assess condition of paint, fire protection, 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	х				No buckling or distortion to saddles. No obvious leaking at saddle to shell welded area – no stains.
are acceptable. Ground wire attached? Anchor Bolts: Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	х				Skid package is grounded. Firmly welded to skid.
Concrete foundation: Check for cracks, spalling, etc.				x	
Ladder / Platform: Describe general condition, ensure support is secure to vessel, describe any hazards.				х	
Nozzle: Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	х	-			No seeping detected. No short studs. Nozzles are not gusseted.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/Temp.				Х	No gussets.
External Piping Ensure pipe is well supported.	х				Firmly supported – no deflection – no corrosion.
Valving: Ensure no leaks are visible. Valves are properly supported and chained if necessary.	х				No leaking detected.
PSV: Ensure PSV is set at pressure at or below that of vessel. Discharge piping is same size as inlet to valve and is properly supported and routed. Ensure no block valves between psv and vessel or if there are they are locked open.				х	Atmospheric – discharges to flare.
NDE methods: Was UT/ MPI done on vessel (MI coordinator to review results)	х				Ultrasonic thickness inspection carried out to determine remaining thickness of metal – shell metal thickness detected below nominal – visual internal in 2004 revealed general corrosion – subsequent UT inspection shows increased corrosion rate – still sufficient metal for containment.

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: Carry out internal on next outage.

Summary: This vessel is in very good condition, visual external and ultrasonic thickness inspection carried out – shell metal thickness detected below nominal – general corrosion detected over full surface – still sufficient remaining metal thickness for containment.

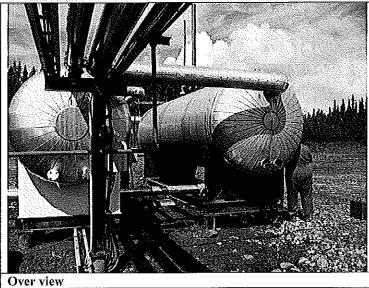
Vessel is fit for service.

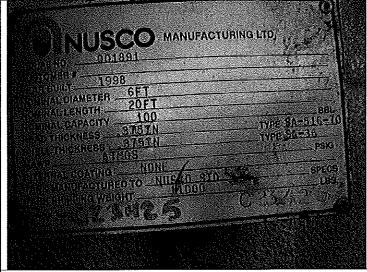
Inspected By: D. Wiedman

Mar 12 - 2008

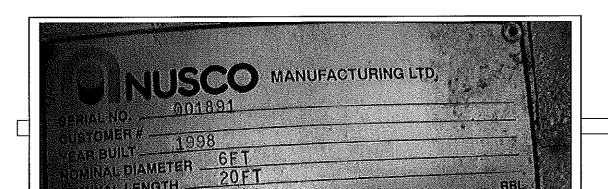
n 0 0 0	CONDY II IC . D. W	71 D Di W t- O4	0.00405
Page 2 of 5	CNKL: Halfway Battery	H.P. Flare Knock Out	[C 23423]
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H.P. Flare Knock Out Drum - C23425



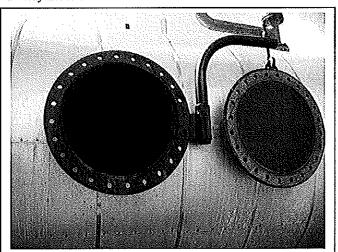


Data Plate

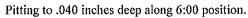


C 23425

Man way access.

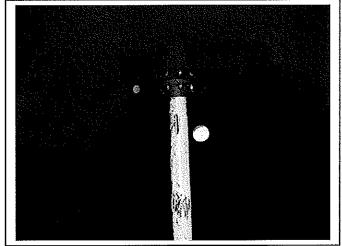


Internal float column - intact





Heat Medium coil - intact and attached - pitting to .040 inches.





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Inlet deflector and nozzle – good condition – general scaling as shell – pitting to .030 inches deep.

Heat medium coil.

