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SEPARATOR INSPECTION REPORT

Inspection Report

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Notification Number 6075056 Work Order 6078106
 Notification Desc SEPARATOR, 16"OD X 7'6" - 1480 PSI Maintenance Plan QPSEPAR6778
 Tasklist Operation (5Y Inspection Interval) 5Y Code Inspection Separator - Sweet Se

Equipment Static Data

Equipment Number	66117428	Equipment Description	SEPARATOR, 16"OD X 7'6" - 1480 PSI
Class	SEPARATOR	Tag Number	V-100
Serial Number	V-4860-001	Year Built	2006
Manufacturer	IPS MANUFACTURING LIMITED		
Location	FH-BC-007-00008-9000	Location Description	KAKWA GAS PLANT YARD
Provincial Number	0551232	PM Activity	Code
Status Codes	NOPR ORAS	Equipment Status	Idle

CRN Number	R4387.213	Code Stamp	U	Fluid Description	GAS/OIL/WATER
Fluid Service	SWEET	Internal Coating Exists	N	Length	1930.40 MM
MDMT - Min. Design Metal Temp	-29 CEL	Shell MAWP	10204 KPA	Stress Relief	HT
Vessel Diameter	16.0 "	Volume	9.19 CUFT	X-Ray	RT1

PRD Static Data

Equip ID	Location	Size		Set Pressure	Capacity	Manufacturer	Serial Number	Model Number	Next Service Date
		Inlet	Outlet						

Process Data

Product Description EMULSION Fluid Service ☒ Sweet ☐ Sour PPM
 Operating Pressure NIS KPA Operating Temperature NIS °C

Pressure Test

Test Completed ☐ Yes ☐ No Test Acceptable ☐ Yes ☐ No Test Report #

PSV Data

Tag/Serial No.	Location	Size		Set Pressure	Capacity	Model / Type	Service Date
		Inlet	Outlet				
261230	SHELL	25.4 MM	25.4 MM	9756 KPA	2376 SCFM	91-17051T14E1	MARCH, 2008

Inspection History

Inspected By MATTHEWS P Inspection Date 2008.12.16

Inspection Summary

The visual external inspection of the separator has identified

- One mechanical concern
- No Non-conformances;
- No Inspection Deficiencies;

- One data integrity update

Recommendations

After completing the visual external inspection I have identified the following mechanical concerns (assess and address if deemed necessary by operations); Inspection deficiencies; and Nonconformance's to be addressed as per the NCR & IDR Resolution Process.

NCR: n/a

IDR: n/a

Mechanical: This vessel has no grounding protection, due to the fact that it is idle and situated in the lay down yard I have addressed it as a mechanical concern that should be addressed prior to putting back into service.

I recommend that this piece of equipment stay on the same inspection interval with no anticipated changes to the type and extent of nondestructive testing used to date.

Repairs Completed

Equipment Status

Integrity Status ☒ Suitable for Continued Service ☐ Immediate Repairs Required ☐ Replace
☐ Future Repairs Required
 Inventory Status ☐ In Service - Fully Utilized ☒ Idle ☐ Surplus ☐ Scrap

QA Activities

<input checked="" type="checkbox"/> Leave As-Is	<input type="checkbox"/> Weld Overlayed	<input type="checkbox"/> Part / Component Replaced
<input type="checkbox"/> Equipment Replaced	<input type="checkbox"/> Grind Dressed	<input type="checkbox"/> Patch Installed
<input type="checkbox"/> MAWP Derated	<input type="checkbox"/> Coating - Cleaned & Patched	<input type="checkbox"/> Coating - Removed & Replaced
<input type="checkbox"/> Defect Removed & Rewelded	<input type="checkbox"/> Part Cleaned	<input type="checkbox"/> Lapped & Dressed
<input type="checkbox"/> Epoxy Patched		

Noncompliances or Inspection Deficiencies Issued

External Visual Inspection

The external visual inspection incorporated the following checks and findings.

WALKWAYS / FLOORING

The flooring found no loose or broken plates. The condition of the paint was acceptable and the level of the flooring was straight and posed no concerns.

FOUNDATIONS / BEAMS / STRUCTURAL

The foundation system of the building is supported on a skid and it presented no settling concerns at the time of inspection. The structural components of the skid supporting the pressure equipment showed no signs of distortion or buckling.

SKIRTS / SADDLES / BOLTED SUPPORTS / WELDMENTS

The skirt was checked for corrosion, distortion, buckling, and cracking and posed no concerns at the time of inspection. Weldments have been used to attach the vessel to the floor, and posed no concerns at the time of inspection.

PIPING ATTACHMENTS / GASKETS

The piping attachments showed no signs of distortion, impingement, cracking or leaks.

GROUNDING CONNECTIONS

The grounding connections were checked and it was found that there is no grounding between the skid supporting the pressure equipment and the ground. Please also note that there are no pilings present. This has been classed as a mechanical concern that should be addressed prior to the skid being returned to service.

AUXILIARY EQUIPMENT

The auxiliary equipment (gauges, level indicators, heaters, instrumentation, etc) were checked for broken glass, leaks, and operability. No issues were identified at the time of inspection. Please note that the heater was not in service at this time of inspection.

PAINT / INSULATION

The condition of the paint was in acceptable condition. It showed no rust spots, blisters, missing or chipped paint.

EXTERNAL METAL SURFACES

The external metal surfaces of the separator was checked for leaks, obvious cracks, bulges, buckles, obvious hot spots and mechanical damage. No issues were identified at the time of inspection. Please note that the equipment was not in service at the time of inspection.

PRESSURE RELIEF VALVE

This vessel is adequately protected with pressure relief. It has no valves between the vessel and the PSV, the seals were intact at the time of inspection and the PSV was installed properly. It has been serviced in an adequate maintenance interval and shows CRN registration.

External NDE Examination

An ultrasonic survey was not performed due to its idle status and that it is in a lay down yard. A survey will be completed prior to returning the equipment back to service.

Internal Visual Inspection

Internal NDE Examination

Data Integrity

Please make the following static data updates.

The Nozzle Corrosion Allowance is actually 3.175 MM ✓

Inspection Interval

Damages

Inspector Certification

I, the undersigned certify that the above equipment has been inspected in accordance with the assigned task list and that statements within this report are correct and represent inspection findings.

Inspector Name	MATTHEWS P	Inspector Signature	<i>C Walsh for Paul Matthews</i>
Inspection Company	HUNT INSPECTION	Date	<i>March 17, 2009</i>

Lead Inspector's Acceptance & Schedule Confirmation

Lead Inspector	<i>DALE MARTIN</i>	Signature	<i>[Signature]</i>	Date	<i>APRIL 6, 09.</i>
Vessel Inspection Interval	*	<input checked="" type="checkbox"/>	Leave as-is / Change to:		
PSV Inspection Interval		<input checked="" type="checkbox"/>	Leave as-is / Change to:		

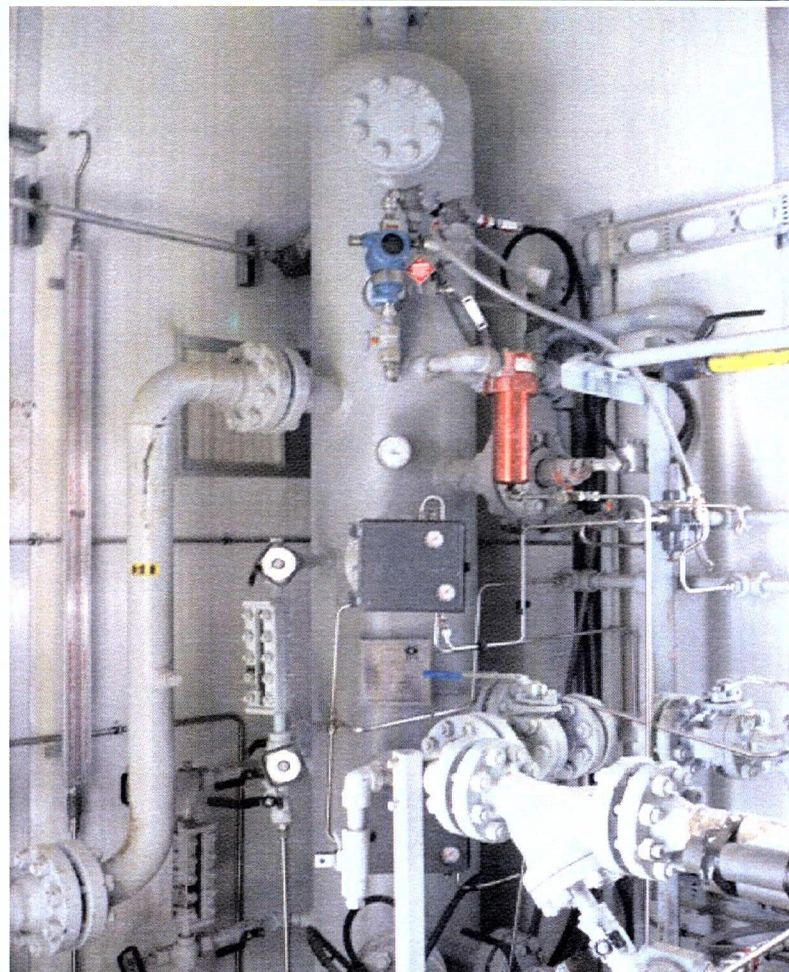
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* *EQUIPMENT IS CURRENTLY IDLE.*

Husky Energy

IR PICTURE TEMPLATE

REPORT #	6075056	NCR#	
		IDR#	



U W RT 1 HT		CERTIFIED BY			
		MANUFACTURING LIMITED			
YEAR BLT	2008	SERIAL NO.	V-4860-001		
VESSEL TYPE	UG-500X 76 VERT SEPARATOR				
M.A.W.P.	1480	PSI	AT	100	°F
M.D.M.T.	-20	°F	AT	1480	PSI
SHELL TK.	10.31	IN	HEAD TK.	0900	IN
CRN	R-327213		C.A.	0.125	IN
A#	6551232				
JOB 5365-001					
MAILING ADDRESS: BOX 24 HALKIRK ALBERTA CANADA T0C 1M0					