its Integrity Testing SERVICES

Inspection and NDE Services

STATIC EQUIPMENT INSPECTION

Customer:	CNRL	**Job #:**	794
Facility:	Wild River	**LSD:**	12-36-56-24W5
Description:	Inlet Separator	**ABSA#:**	A0475030

EQUIPMENT INFORMATION		NOMINAL THICKNESS & MATERIAL					
Equip #:	V-100	**Head:**	27mm	**Material:**	516-70N	**C.A.**	1.6mm
Serial #:	011055-V100	**Head:**	27mm		517-70N		1.6mm
CRN#	P6409.2	**Shell:**	25.4mm		516-70N		1.6mm
Code/Div:	NS	**Shell:**	25.4mm		516-70N		1.6mm
Para:	NS	**Channel HD:**	NA				
Code Stamp:	U W	**Channel SH:**	NA				
Yr. Built:	2001	**Boot HD:**	NS				
Size:	4'x20'	**Boot SH:**	NS				
Service:	Sweet	**MAWP Shell:**	720	☒ **PSI** ☐ **kPa**	**Temp:** 130	☒ **F** ☐ **C**	
PWHT:	NS	**MAWP Tube:**		☐ **PSI** ☐ **kPa**	**Temp:**	☐ **F** ☐ **C**	
RT:	1	**Comments:**					
Manufacturer:	BLACK,SIVALLS						
Insulated:	☐ **YES** ☒ **NO**	**Repairs**					
Manway:	☒ **YES** ☐ **NO**	**Reasons:**					
Status:	☒ **IN SERVICE (IDLE)**						
	☐ **OUT OF SERVICE**						

PSV INFORMATION					
PSV#:	**PSV475030**				
Serial#:	**428852-2-A10**	**STAMP**	**UV**		
CRN:	**NS**				
Model:	**26KA12-120**				
Set Press:	**720 PSI**				
Capacity:	**25908 SCFM**				
Status:	**IDLE**				
Manufacturer:	**FARRIS**				
Inlet Size:	**3"**				
Outlet Size:	**4"**				
Conn. Type:	**FLANGE**				
Service Interval:	**60**				
Last Service:	**09/05/27**				
Location:		☒ **SH** ☐ **TUBE** ☐ **PIPING**		☐ **SH** ☐ **TUBE** ☐ **PIPING**	

Inspection Requested By:		**Inspection Date:**	May 30, 2009
Inspection Performed By:	Ron Burton	**Certification:**	API 510/570/IPVI

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EXTERNAL VISUAL INSPECTION

ABSA#: A0475030

REMEDIAL ACTION	ACCESS & COVERAGE	OTHER	SHELL
			☐ **Top** ☐ **Bottom**
☒ No Action Required	☐ Partial Internal Inspection	☐ See Comments	☐ Good Condition
☐ Paint Repairs	☒ External Inspection	☒ Ground Cable Y ☒ ☐ N	☐ External Corrosion
☐ Repair Weld – S.R.	☐ NDE Inspection	☐ Ladders/Handrail/	☐ Pitted – Light
☐ Repair Weld – No S.R.	☐ MT	Walkway Damage	☐ Pitted – Severe
☐ Grind Out	☐ UT	☒ Nameplate Secure ☐ N	☐ Scaled – Light
☐ See Comments	☐ RT	☒ Nameplate Legible ☐ N	☐ Scaled – Heavy
	☐ BH	☒ See Attached Pictures	☐ Blistered
	☐ PT		☒ N/A Insulated
	☐ Other		

NOZZLES	EXTERNAL PROTECTION	WELDS	SUPPORTS
☒ Good Condition	☒ Good Condition	☒ Good Condition	☒ Good Condition
☐ Cracked	☐ Fireproofing Cracked	☐ Corroded	☐ Distorted
☐ Scaled	☐ Insulation Damaged	☐ Cracked	☐ Cracked
☐ Plugged	☐ Paint Deteriorated	☐ Broken	☐ Broken
☐ Poor Welding	☐ Corrosion Under Insulation	☐ Poor Quality	☐ Poor Installation
☐ Leading		☐ Insulated	☐ Bolts Missing/Loose/
☐ Seal Face Corrosion			Damaged
☐ Bolts Missing/Loose/			☐ Support Ring Damaged
Damaged			☐ N/A
☐ Partial Internal Inspection			
☐ Insulated			

HEADS			HEADS		
☐ **Top**	☒ **North**	☐ **West**	☐ **Bottom**	☒ **South**	☐ **East**
☒ Good Condition			☒ Good Condition		
☐ External Corrosion			☐ External Corrosion		
☐ Pitted – Light			☐ Pitted – Light		
☐ Pitted – Severe			☐ Pitted – Severe		
☐ Scaled – Light			☐ Scaled – Light		
☐ Scaled – Heavy			☐ Scaled – Heavy		
☐ Blistered			☐ Blistered		
☐ Insulated			☐ Insulated		

EXTERNAL VISUAL INSPECTION

ABSA#: A0475030

SUMMARY OBSERVATIONS	SUMMARY RECOMMENDATIONS
☒ **Vessel in Good Condition**	☒ **Based on API 510 Visual External Inspection this vessel Is fit for service**
---- Horizontal vessel. **---- Name plate is in place.** **---- Vessel is grounded.** **---- Boot is on the vessel.**	
DETAILED OBSERVATION	**DETAILED RECOMMENDATIONS**
No issues noted at time of inspection.	

its Integrity Testing SERVICES

Inspection and NDE Services

INTERNAL VISUAL INSPECTION

ABSA#: A0475030

INTERNAL PROTECTION	VESSEL INTERNALS	HEATING COIL	HEATING COIL
☒ **Coating** ☐ **Lining**			
☐ Good Condition	☐ Weir/Baffle/	☒ N/A	☒ N/A
☐ Blistered – Light	Divider Damage	☐ Good Condition	☐ Good Condition
☐ Blistered – Severe	☐ Downcomer Corrosion	☐ Corrosion	☐ General
☐ Disbonded	☐ Spray Nozzles	☐ Cracked	☐ Pitted – Light
☐ Chipped	Damaged/Missing	☐ Scaled	☐ Pitted – Severe
☐ Holidays	☒ See Comments	☐ Worn	☐ Erosion
☐ Mechanical Damage	☐ Adequate Cleaning	☐ Loose	☐ Scaled
☐ Missing		☐ Poor Installation	☐ Coated

DEMISTER SCREEN	REFRACTORY	MANWAY	TRAYS
☐ N/A	☒ N/A	☒ Good Condition	☒ N/A
☒ Good Condition	☐ Good Condition	☒ Coating Damage	☐ Good
☐ Dislodged	☐ Cracked (minor)	☐ Internal Corrosion	☐ Collapsed
☐ Broken	☐ Spalled	☐ Mechanical Damage	☐ Distorted
☐ Missing	☐ Missing	☐ Seal Face Corrosion	☐ Loose
☐ Tie-Downs Missing	☐ Damaged	☐ Bolts Missing/Loose/	☐ Missing
	☐ Badly Cracked	Damaged	☐ Wear
			☐ Corrosion
			☐ Poor
			☐ Valve Caps Missing

TUBE SHEET	FIRETUBES	TUBE BUNDLE	TUBES
☒ N/A	☒ N/A	☒ N/A	☒ N/A
☐ Good Condition	☐ Good Condition	☐ Good Condition	☐ Good Condition
☐ Cracked	☐ Cracked	☐ General Corrosion	☐ External Corrosion
☐ Pitted – Light	☐ Corrosion	☐ Pitted – Light	☐ Internal Corrosion
☐ Pitted – Severe	☐ Scaled	☐ Pitted – Severe	☐ Thinning
☐ Erosion	☐ Heat Impinged	☐ Scaled	☐ Bulged
☐ Damaged	☐ Coated	☐ Plugged	☐ Heat Impinged
	☐ Wear	☐ Damaged	☐ Distorted
	☐ Burner Misalignment	☐ Wear	☐ Erosion
	☐	☐ Erosion	☐ Leaking

CHANNEL HEAD	SHELL	FLOOR	DRUM
	☒ **Top** ☒ **Bottom**		☐ **Mud** ☐ **Steam**
☒ N/A	☒ Good Condition	☒ N/A	☒ N/A
☐ Good Condition	☐ Internal Corrosion	☐ External Corrosion	☐ Good Condition
☐ General	☒ Pitted – Light	☐ Internal Corrosion	☐ Internal Damaged
☐ Pitted – Light	☐ Pitted – Severe	☐ Pitted – Light	☐ Internal Corrosion
☐ Pitted – Severe	☐ Scaled – Light	☐ Pitted – Severe	☐ Cracking
☐ Erosion	☐ Scaled – Heavy	☐ Edge Settlement	☐ Scaling
☐ Scaled	☐ Blistered	☐ Weld Cracking	
☐ Coated	☐ Coated	☐ Sludge	
	Scouring Noted	☐ Previous Repairs	

INTERNAL VISUAL INSPECTION

ABSA#: A0475030

SUMMARY OBSERVATIONS	SUMMARY RECOMMENDATIONS
☒ **Vessel in Good Condition**	☒ **Based on API 510 Visual Internal Inspection this vessel Is fit for service**
DETAILED OBSERVATION	**DETAILED RECOMMENDATIONS**
Coating is chipped on the inside edge of the manway. **Coating repairs were made at time of inspection**	