

Vessel Information

Vessel Owner	RMP Energy Inc.	
Location	08-08-066-24W5	
Survey Date	July 09, 2016	
Review Date	Sept 16, 2016	
Vessel Description	Fuel Gas Scrubber	
A#	Serial # 1006.6101	NB#

Deficiencies

Deficiency Noted	NO
Deficiency Type	
PSV In Compliance	YES
PSV Overdue for Service	NO
Nameplate Deficiency	NO
Comments	
No issues noted	

Vessel Condition Status

Internal Corrosion Noted	NO
Band number	
Comments	
No issues noted	

Fit for Service

Vessel /Piping is Fit for Service	YES
Conditions for Fit for Service	NO
In Service / Out of Service	In Service
Comments	
Maximum interval achieved	

Inspection Interval

NDE Inspection Interval	10 Years
Thorough Inspection by	UT Inspection
Next Inspection Date	July 08, 2026
Next External Inspection	July 08, 2021

Reviewer



R. (Bob) Stanhope
 Bootis Hill Integrity Management Inc.
 Phone: (780) 915-0510



Jeff Crabbe
 API 510, 570, 653
 ABSA PESL - 000240
 TSask PEI - 0147

RG - 120 mths VE, UT
 PD - 60 mths VE
 *Int same as separator

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Bootis Hill Integrity Management Inc Revision # 1	Installation Inspection Form	Form # 001 Effective Date: February 1, 2008
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Owner	RMP Energy INC.	Location	3-8-66-24-W5
Inspector	Stuart Vint.	Field	Ante Creek
Vessel Data			
Vessel Description	Fuel Gas Scrubber	PWHT	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Manufacturer	LoTech	Diameter	6.625"
A# / NB#	/	Length	2'
Serial #	1006.6101	Radiography (RT)	/
CRN #	OH7154.21345	Corrosion Allowance	/
Date Built	2011	Shell Thickness	/
MAWP	150 Psi <input checked="" type="checkbox"/> kPa <input type="checkbox"/>	Shell Material	/
MAWT	650 F <input checked="" type="checkbox"/> C <input type="checkbox"/>	Head Thickness	/
MDMT (-29C)	-20 F <input checked="" type="checkbox"/> C <input type="checkbox"/>	Head Material	/

PSV Data			
PSV #1		PSV #2	
PSV Location	F.G.S.	PSV Location	
Manufacturer(s)	Mercer	Manufacturer(s)	
Serial #	725862	Serial #	
CRN #	068841.5C	CRN #	
Model #	91-17D51V07E1	Model #	
Set Pressure	150 Psi <input checked="" type="checkbox"/> kPa <input type="checkbox"/>	Set Pressure	Psi <input type="checkbox"/> kPa <input type="checkbox"/>
Capacity	329 scfm <input checked="" type="checkbox"/> g/m <input type="checkbox"/>	Capacity	scfm <input type="checkbox"/> g/m <input type="checkbox"/>
Last Service Date	9-11	Last Service Date	
Inlet Size	1"	Inlet Size	
Outlet Size	1"	Outlet Size	
Inlet Type	Thread <input checked="" type="checkbox"/> Flange <input type="checkbox"/>	Inlet Type	Thread <input type="checkbox"/> Flange <input type="checkbox"/>
Outlet Type	Thread <input checked="" type="checkbox"/> Flange <input type="checkbox"/>	Outlet Type	Thread <input type="checkbox"/> Flange <input type="checkbox"/>
PSV Outlet Trapped	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	PSV Outlet Trapped	Yes <input type="checkbox"/> No <input type="checkbox"/>
PSV Inlet Restricted	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	PSV Inlet Restricted	Yes <input type="checkbox"/> No <input type="checkbox"/>
PSV Outlet Restricted	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	PSV Outlet Restricted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Inlet Block Valve	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Inlet Block Valve	Yes <input type="checkbox"/> No <input type="checkbox"/>
Outlet Block Valve	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Outlet Block Valve	Yes <input type="checkbox"/> No <input type="checkbox"/>

External Inspection Data			
Vessel/Skid Grounded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Vessel Nameplate	1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>
Vessel Level	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Vessel Saddle/Skirt	1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>
Vessel Secured	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ladder(s)	N/A 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>
Bolting per Code	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temp Indicator (TI)	NONE 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>
Vessel Shell	1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>	Pressure Gauge	NONE 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>
Vessel Head	1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>	Valves	1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>
Vessel Paint	1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>	Piping	1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>
Foundation	1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>	Flame Arrestor	n/a <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>
Insulation/Cladding	N/A 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>	Stack	n/a <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>

Legend - 1 as new, 2 used good condition, 3 deterioration consider repair, 4 severe deterioration, 5 further inspection required, n/a not applicable

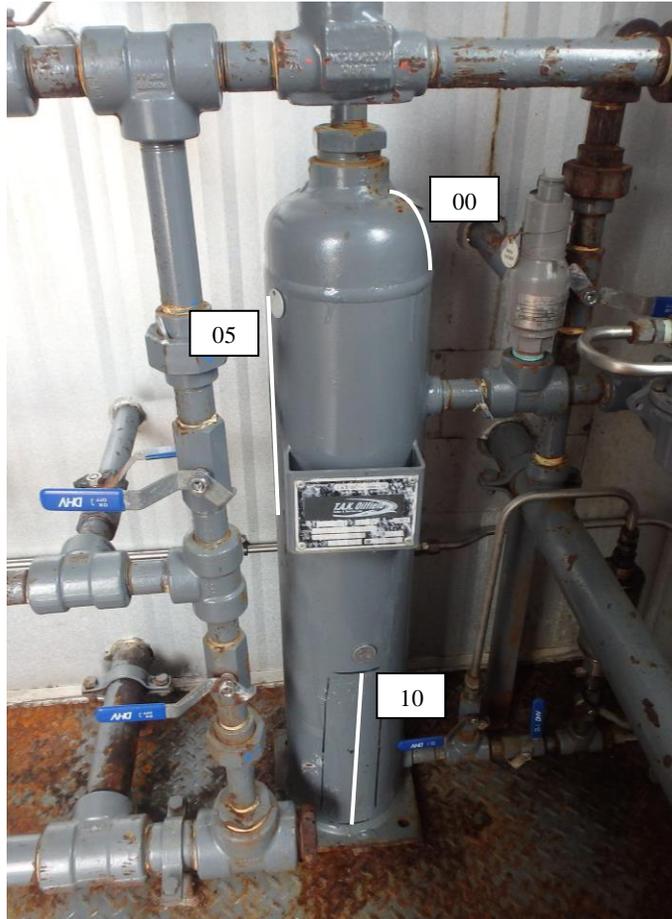
Comments	
SKID Grounded.	
Fit for Service	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
In Service	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Inspection Interval	1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>
Inspection Type	UT <input checked="" type="checkbox"/> Visual <input type="checkbox"/> Internal <input type="checkbox"/> Other <input type="checkbox"/>
Inspector	Danny J. Trus
Date	July 9/2016

5 yr interval Bob Stanhope Sept 2016



Vessel Static Data:

Name:	Fuel Gas Scrubber
A#:	N/A
Serial Number:	1006.6101
CRN:	OH 7154.21345
LSD:	08-08-066-24 W5M
Location:	Ante Creek
CA:	N/A
Size:	6.625" OD
MAWP:	150psi
Temp:	650°F
Head Material:	N/A
Head Nominal:	N/A
Shell Material:	N/A
Shell Nominal:	N/A
Year Built:	2011
Manufacturer:	Lo Tech



Notes: _____





ULTRASONIC CORROSION SURVEY

Survey Name: RMP ENERGY INC

Report No.: 181

Survey Date: 07/09/2016

LSD: 08-08-066-24W5	Dwg: 38	Vessel Number:	Manufacturer: LO TECH	Technician: D. JUTRAS
Downhole LSD:		Vessel Name: FUEL GAS SCRUBBER	Serial Number: 1006.6101	Certification: CGSB / SNT-TC-1A
District Unit: ANTE CREEK		Year Built: 2011	Shell MAWP PSI: 150 MAWT F: 650	UT I / MT II #13536
Location: FIELD		Tag Number:	Tube MAWP PSI: 0 MAWT F: 0	
Skid:		CRN: OH 7154.21345	Vessel CA: 0.0000	

Band	Description		Baseline	Previous	Current	Next Inspection	Nominal	TMIN	ST Loss	LT Loss	Recommended
						Material	CA		MPY	MPY	Retirement
											Date
00	Top - Head	Ref	2016	0.2730	2016	0.2730	2017				
Shape	Ellipsoidal	Min		0.2720		0.2720	SA 285 - C	0.0000			
OD	6.625	Avg		0.2770		0.2770					
Spec.	VIII Div 1										Comments:
05	Top - Shell	Ref	2016	0.2940	2016	0.2940	2017				
Shape	Cylindrical	Min		0.2730		0.2730	SA 285 - C	0.0000			
OD	6.625	Avg		0.2780		0.2780					
Spec.	VIII Div 1										Comments:
10	Bottom - Shell	Ref	2016	0.2900	2016	0.2900	2017				
Shape	Cylindrical	Min		0.2850		0.2850	SA 285 - C	0.0000			
OD	6.625	Avg		0.2900		0.2900					
Spec.	VIII Div 1										Comments: