

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD:07-27-051-20W5

Date: JUNE 5, 2014

SAP Equipment ID: 66149346

VESSEL STATIC DATA									
Plant ANSEL			Op Unit FH-AN			System			
Prov. Insp. # 563379			CRN U2298.2			Equip Tag # V-1001			
Equipment Description			PLANT 1 FLARE KNOCK OUT			Serial # 07-2987-0002			
Manufacturer			PYRMID PROCESS FAB			Vessel Class			
Internal Access: YES			NO Description:			Year Built 2007			
MAWP 50		kPa / PSI		@ 300		°C / °F		MDMT °C / °F	
CODE : UM U U2			RT : 1 2 3 4			PWHT : YES			
Diameter		Length (T/T)		mm/in		OAL		mm / in	
Shell Mat'l				Thickness		mm / in		Corr Allowance mm / in	
Head Mat'l				Thickness		mm / in		Corr Allowance mm / in	
Nozzle Mat'l				Thickness		mm / in		Corr Allowance mm / in	
Internal Coating: YES NO			Internal Clad : YES NO			Capacity m ³			
Manway : YES NO			Inspection Port : YES NO			Skirt Legs Saddle			
Nozzle Rating		lb ANSI		Painted : YES NO		Insulated YES NO			
PROCESS DATA									
Product Description						Sweet Sour			
Operating Pressure				kPa / PSI		Operating Temperature °C / °F			
PSV STATIC DATA									
Serial No.	Location		Inlet	Size Outlet	Set Pressure	Capacity SCFM / Lbs/Hr / GPM	Manufacturer	Model / Type	Service Date
NDE Equipment records									
Procedure#	Description		Manufacturer		Model#	Serial#		Due Date	

INSPECTION SUMMARY

VISUAL INTERNAL:
THERE ARE NO SIGNS OF CORRSOSION. VESSEL IS IN GOOD CONDITION
THE VESSEL IS 100% COATED AND THE COATING IS FREE OF CHIPS OR BLISTERING
ALL NOZZLES ARE FREE AND CLEAR

VISUAL EXTERNAL:
NAME PLATE IS SECURE AND LEGIBLE
INSULATION IS IN GOOD CONDITION
PAINT IS IN GOOD CODITION
VESSEL IS GROUNDED THROUGH SKID

VESSEL IS FIT FOR FURTHER SERVICE

RECOMMENDATIONS

NONE

NONCONFORMANCES / INSPECTION DEFICIENCIES

NONE

INSPECTION PLANNING

Inspection Strategy		Availability OFFLINE		Inspection Interval 5	
Inspection Date June 4, 2014		Date of Last Inspect		Date of Next Inspect 2019	

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REPORT CERTIFICATION

The signatures below certify that inspections/tests have been completed in accordance with the identified inspection strategy and that the specified equipment is considered fit for service until the date of next inspection.

Inspected by

Date

Reviewed and Approved by

Date

Criticality Assessment Rerun

Inspection Planning Rerun

Assessed Next Inspection Date

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DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	OK			
V2	General Corrosion	OK			
V3	General Leaks	OK			
V4	Vibration	OK			
V5	Dissimilar Flange Rating				
V6	Ladder/Stairway	OK			
V7	Heads	OK			
V8	Guy Wires				
V9	Electrical Ground	OK			
V10	Painted Inactive Corrosion	OK			
V11	Coating/Painting	OK			
V12	Expansion Joint or Bellows				
V13	Gauge/Site Glass	OK			
V14	Shell	OK			
V15	Jacket				
V21	Support Other (Please explain)				
V22	Foundation	OK			
V23	Anchor Bolts	OK			
V24	Saddle/Skirt	OK			
V25	Davit				
V26	Fireproofing				
V31	Connections Other (Please explain)				
V32	Small Branches				
V33	Nozzles	OK			
V34	Manways	OK			
V35	Reinforcing Pads				
V36	Inadequate Thread Engagement				
V37	Bolting	OK			
V38	Flanges	OK			
V39	Leak Clamps				
V41	Insulation Other (Please explain)				
V42	Damage				
V43	Penetrations				
V44	Insulation Jacket				
V45	Banding	OK			
V46	Seals/Joints	OK			
V51	Relief Devices Other (Please explain)	OK			Last serviced 2011
V52	Corrosion	OK			
V53	Leaks	OK			
V54	Restricted Inlet/Outlet				
V55	Manual Operation Lever				

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DETAILED INSPECTION VISUAL INTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	OK			
V2	Corrosion (depth, length, width)				
V3	Erosion				
V4	Distortion				
V5	Blisters				
V6	Deposits				
V7	Heads	OK			
V8	Welds	OK			
V9	Nozzles	OK			
V10	Shell	OK			
V11	Gasket Surfaces	OK			
V21	Internals Other (Please explain)				
V22	Demister	OK			
V23	Baffle/Wier				
V24	Sparger				
V25	Thermowells	OK			
V26	Metallic Linings				
V27	Nonmetallic Linings				
V28	Trays				
V29	Tray Rings				
V30	Other Welded Attachments				

DETAILED INSPECTION OTHER TECHNIQUES

ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

DETAILED INSPECTION UT THICKNESS

CML	Nom. Thk	Current Reading	Short Term Corr Rate	Long Term Corr Rate	Remaining Life	Comments

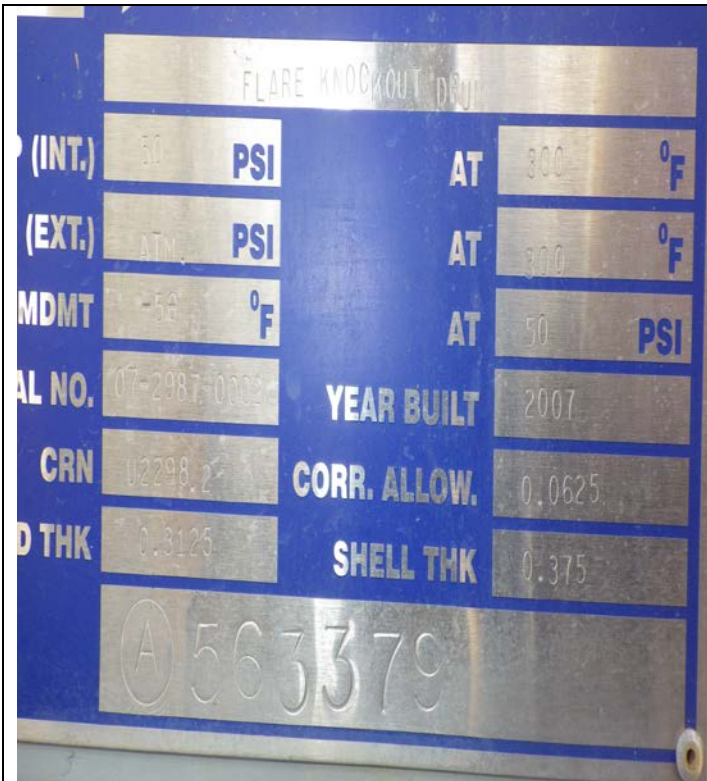
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PHOTOS





Form: QR-19.7a

Rev: 0, Date 12/13

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