

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 07-27-051-19W5M

Date: JULY 09, 2014

SAP Equipment ID: 66126579

VESSEL STATIC DATA						
Plant		Ansell Gas Plant		Op Unit		System
Prov. Insp. #		A0563306		CRN		U1205.21
Equipment Description		Flare Knockout Drum		Serial #		07-2933-0001
Manufacturer		Pyramid Corp.		Vessel Class		
Internal Access: Yes		Description: 24 in manway		Year Built		2007
MAWP 15		PSI @ 302		°F		MDMT -48 °F
CODE :		RT : 1		PWHT : No		
Diameter 78 in estimate		Length (s/s) 228 in estimate		OAL in		Horizontal
Shell	Mat'l	Thickness		0.625 in		Corr Allowance 0.125 in
Head	Mat'l	Thickness		0.6875 in		Corr Allowance 0.125 in
Nozzle	Mat'l	Thickness		in		Corr Allowance mm
Internal Coating: YES NO		Internal Clad : YES NO		Capacity		m3
Manway : yes		Inspection Port : no		Saddle		
Nozzle Rating 150 lb ANSI		Painted : yes		Insulated		yes
PROCESS DATA						
Product Description Gas				Sweet		
Operating Pressure PSI				Operating Temperature °F		
PSV STATIC DATA – East PSV						
Serial No.	Location	Set Pressure	Capacity SCFM / Lbs/Hr / GPM	Manufacturer	Model / Type	Service Date / Company
PSV DETAILS						
	Type (Thread/Flange)		ANSI Rating		Size (in)	
PRD Inlet						
PRD Outlet						
NDE Equipment records						
Procedure#	Description	Manufacturer	Model#	Serial#	Due Date	

INSPECTION SUMMARY

A visual external inspection was conducted on vessel while in operation. Plant 2. Dataplate secure and legible. Vessel and piping are insulated and clad limiting visual inspection. Cladding and banding in good condition, coverplates present on all UT cut outs. Piping well supported. Paint in good condition on exposed surfaces. No ground cable connection found, skid welded to steel piles. Saddle supports securely bolted to skid. No PSV, atmospheric vessel. Ladder and platform securely attached, and in good condition. UT inspection performed 2014 by Streamline Inspection.

Vessel was found to be in good condition and fit for continued service.

RECOMMENDATIONS

Ensure vessel is properly grounded
Review UT survey results.
Double nut manway davit

NONCONFORMANCES / INSPECTION DEFICIENCIES

Manway davit only single nut.
No ground cable connection found.

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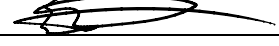
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INSPECTION PLANNING

Inspection Strategy	Availability	Inspection Interval
Inspection Date July 09, 2014	Date of Last Inspect	Date of Next Inspect

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	Ed Tymensen		Date	July 09, 2014
Company	Streamline Inspection	PESL #	000711	API # 27479
Reviewed and Approved by			Date	
		PESL #		API #
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)	Good			Overall
V2	General Corrosion	n/a			No corrosion noted
V3	General Leaks	n/a			No leaks noted
V4	Vibration	n/a			
V5	Dissimilar Flange Rating	Good			Similar ratings
V6	Ladder/Stairway	Good	Ladder / platform		Securely attached, bar present across platform opening
V7	Heads	n/a			Insulated – no visual
V8	Guy Wires	n/a			
V9	Electrical Ground	Poor			No ground cable connection found
V10	Painted Inactive Corrosion	n/a			
V11	Coating/Painting	Good	Exposed surfaces		No significant damage or deterioration noted
V12	Expansion Joint or Bellows	n/a			
V13	Gauge/Site Glass	n/a			
V14	Shell	n/a			Insulated – no visual
V15	Jacket	n/a			
V21	Support Other (Please explain)	Good	Piping		Well supported
V22	Foundation	Good			Vessel on steel skid, welded to steel piles
V23	Anchor Bolts	Good			Tight and secure both ends
V24	Saddle/Skirt	Good	Saddle		Bolted to skid, no visual access to support to shell connections
V25	Davit	n/a			
V26	Fireproofing	n/a			
V31	Connections Other (Please explain)	Good			All connections appear secure
V32	Small Branches	n/a			
V33	Nozzles	Good			No corrosion or damage noted
V34	Manways	Good			Davit is single nut only
V35	Reinforcing Pads	n/a			insulated
V36	Inadequate Thread Engagement	Good			Adequate engagement
V37	Bolting	Good			All bolting tight and secure, no corrosion of threads
V38	Flanges	Good			No leaks or corrosion
V39	Leak Clamps	n/a			
V41	Insulation Other (Please explain)	Good	Vessel / piping		Insulated and clad
V42	Damage	n/a			None noted
V43	Penetrations	Good	UT cut outs		Coverplates in place, sealed
V44	Insulation Jacket	Good	Vessel / piping		Tin cladding
V45	Banding	Good			
V46	Seals/Joints	good			
V51	Relief Devices Other (Please explain)	n/a			Atmospheric, no PSV required
V52	Corrosion	n/a			
V53	Leaks	n/a			
V54	Restricted Inlet/Outlet	n/a			
V55	Manual Operation Lever	n/a			

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DETAILED INSPECTION VISUAL INTERNAL

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

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



LSD sign



DATAPLATE



VESSEL OVERVIEW



DAVIT SINGLE NUT ONLY