

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD:07-27-051-19W5

Date: 2014-06-04

SAP Equipment ID: 66128609

VESSEL STATIC DATA															
Plant			ANSEL GAS PLANT			Op Unit		N/A		System		N/A			
Prov. Insp. #			A0571608			CRN		U0192.213		Equip Tag #		20-V-001			
Equipment Description						INLET SEPARATOR				Serial #		12306200			
Manufacturer						TOROMONT PROCESS SYSTEMS				Vessel Class		PRESSURE VESSEL			
Internal Access: X YES						NO Description: 20" OD MANWAY						Year Built		2007	
MAWP		390		kPa / PSI		@		150		°C / °F		MDMT		-20 °C / °F	
CODE : UM				U U2		RT : 4 2 3 4				PWHT : N/A					
Diameter			48" OD			Length (T/T)		N/A mm/in		OAL		192 mm / in		Vertical Horizontal	
Shell		Mat'l		N/A		Thickness		N/A mm / in		Corr Allowance		N/A mm / in			
Head		Mat'l		N/A		Thickness		N/A mm / in		Corr Allowance		N/A mm / in			
Nozzle		Mat'l		N/A		Thickness		N/A mm / in		Corr Allowance		N/A mm / in			
Internal Coating: YES NO				Internal Clad : YES NO				Capacity				N/A m ³			
Manway : YES NO				Inspection Port : YES NO				Skirt Legs Saddle							
Nozzle Rating		600		lb ANSI		Painted :		YES NO		Insulated		YES NO			
PROCESS DATA															
Product Description						GAS				Sweet		Sour			
Operating Pressure						N/A kPa / PSI				Operating Temperature		N/A °C / °F			
PSV STATIC DATA															
Serial No.		Location		Set Pressure		Capacity SCFM / Lbs/Hr / GPM		Manufacturer		Model / Type		Service Date / Company			
484642-18-A10		INLET PIPING		390 PSI		9980 SCFM		FARRIS		26JA12A-120		WIZARD VALVE			
PSV DETAILS															
		Type (Thread/Flange)				ANSI Rating				Size (mm)					
PRD Inlet		FLANGE				300				76.2					
PRD Outlet		FLANGE				150				101.6					
NDE Equipment records															
Procedure#		Description		Manufacturer		Model#		Serial#		Due Date					
MT-1		WFMT		CONTOUR PROBES		B-300		20832		03-SEPT-14					

INSPECTION SUMMARY

EXTERNAL INSPECTION:

- 1) DATA PLATE IS SECURED IN PLACE AND IS LEGIBLE
- 2) SADDLE IS SECURED TO FOUNDATION AND DIRECTLY GROUNDED.
- 3) PSV IS LOCATED ON THE INLET PIPING AND HAS AN ISOLATION VALVE THAT IS CARSEALED IN THE OPEN POSITION.
- 4) ATTACHED PIPING HAS SOME MINOR COATING DAMAGE, NO CORROSION IS PRESENT.
- 5) PRESSURE GAUGE, TEMPERATURE GAUGE AND SIGHT GLASS ARE CLEAN, CLEAR AND VISIBLE.
- 6) ALL PIPING CONNECTIONS ARE PROPERLY FASTENED; NO EVIDENCE OF LEAKS.
- 7) NO DEFORMATION OR CORROSION FOUND ON THE SHELL OR HEADS.

INTERNAL INSPECTION:

- 1) 20" MANWAY UTILIZED FOR THE INTERNAL INSPECTION.
- 2) ALL ACCESSIBLE SHELL AND HEAD WELDS ARE TO IN GOOD CONDITION, WITH NO RELEVANT SIGNS OF DETERIORATION. WET FLUORESCENT MAGNETIC PARTICLE INSPECTION (MPI) COMPLETED ON 24" OF THE CIRC AND LONG SEAMS AT THE "T" INTERSECTIONS. REFER TO ATTACHED MPI REPORT #66128609 – EQ – INSPECTION REPORT – 2014-06-04 – MT – A0571608 INLET SEPARATOR.
- 3) NO BLOCKAGES FOUND IN THE ACCESSIBLE NOZZLES.
- 4) NO EVIDENCE OF CORROSION OR EROSION FOUND ON THE SHELL AND HEADS.
- 5) INTERNAL COMPONENTS ARE IN GOOD VISUAL CONDITION.

SEPARATOR IS FIT FOR CONTINUED SERVICE.

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RECOMMENDATIONS

N/A

NONCONFORMANCES / INSPECTION DEFICIENCIES


N/A

INSPECTION PLANNING

Inspection Strategy _____	Availability _____	Inspection Interval _____
Inspection Date _____	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	CURTIS SINCLAIR		Date	2014-06-04
Company	STREAMLINE INSPECTION	PESL #	00541	API # 35229
Reviewed and Approved by	_____	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			IN GOOD OVERALL CONDITION
V2	General Corrosion	GOOD			NONE PRESENT
V3	General Leaks	GOOD			NO EVIDENCE OF LEAKS NOTED
V4	Vibration	GOOD			NO VIBRATION ISSUES FOUND
V5	Dissimilar Flange Rating	GOOD			NO DISSIMILAR FLANGE RATING
V6	Ladder/Stairway	N/A			N/A
V7	Heads	GOOD			NO DEFORMATION OR CORROSION
V8	Guy Wires	N/A			N/A
V9	Electrical Ground	GOOD			DIRECT GROUNDING
V10	Painted Inactive Corrosion	GOOD			NONE
V11	Coating/Painting	GOOD			NO RELEVANT DAMAGE
V112	Expansion Joint or Bellows	N/A			N/A
V13	Gauge/Site Glass	GOOD			CLEAN, CLEAR AND VISIBLE
V14	Shell	GOOD			NO DEFORMATION OR CORROSION
V15	Jacket	N/A			N/A
V21	Support Other (Please explain)	GOOD			SECURED IN PLACE
V22	Foundation	GOOD			INTACT
V23	Anchor Bolts	GOOD			PROPERLY FASTENED
V24	Saddle/Skirt	GOOD			NO DEFORMATION
V25	Davit	N/A			N/A
V26	Fireproofing	N/A			N/A
V31	Connections Other (Please explain)	GOOD			PIPING CONNECTIONS ARE PROPERLY FASTENED TOGETHER
V32	Small Branches	GOOD			NO EVIDENCE OF LEAKS FOUND
V33	Nozzles	GOOD			PROPERLY FASTENED
V34	Manways	GOOD			NO CORROSION OR WEAR PRESENT
V35	Reinforcing Pads	GOOD			WEEPING HOLES PRESENT
V36	Inadequate Thread Engagement	GOOD			ALL THREADS ADEQUATELY ENGAGED
V37	Bolting	GOOD			NO CORROSION OR WEAR
V38	Flanges	GOOD			NO CORROSION OR WEAR PRESENT
V39	Leak Clamps	N/A			N/A
V41	Insulation Other (Please explain)	N/A			N/A
V42	Damage	N/A			N/A
V43	Penetrations	N/A			N/A
V44	Insulation Jacket	N/A			N/A
V45	Banding	N/A			N/A
V46	Seals/Joints	N/A			N/A
V51	Relief Devices Other (Please explain)	GOOD			LAST SERVICED IN 2011 BY WIZARD VALVE
V52	Corrosion	GOOD			NONE
V53	Leaks	GOOD			NONE
V54	Restricted Inlet/Outlet	GOOD			ISOLATION VALVE CARSEALED IN THE OPEN POSTION
V55	Manual Operation Lever	N/A			N/A

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DETAILED INSPECTION VISUAL INTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	GOOD			NO CORROSION PRESENT
V2	Corrosion (depth, length, width)	GOOD			NONE
V3	Erosion	GOOD			NONE
V4	Distortion	GOOD			NO DISTORTION FOUND
V5	Blisters	GOOD			NONE
V6	Deposits	GOOD			NONE
V7	Heads	GOOD			NO CORROSION OR DEFORMATION
V8	Welds	GOOD			WET FLUORESCENT MPI COMPLETED ON WELDS. REFER TO ATTACHED REPORT
V9	Nozzles	GOOD			NO BLOCKAGES FOUND
V10	Shell	GOOD			NO CORROSION OR DEFORMATION
V11	Gasket Surfaces	GOOD			NO WEAR OR CORROSION PRESENT
V21	Internals Other (Please explain)	GOOD			
V22	Demister	N/A			N/A
V23	Baffle/Wier	GOOD			NO DAMAGE
V24	Sparger	N/A			N/A
V25	Thermowells	N/A			N/A
V26	Metallic Linings	N/A			N/A
V27	Nonmetallic Linings	N/A			N/A
V28	Trays	N/A			N/A
V29	Tray Rings	N/A			N/A
V30	Other Welded Attachments	GOOD			NO DAMAGE

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



FACILITY SIGN



DATA PLATE



VESEL OVERVIEW



VESEL OVERVIEW



VESEL BOOT



ATTACHED PROCESS PIPING AND VALVES

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SEPARATOR PSV



PSV DATA PLATE



PSV SERVICE TAGE (1)



PSV SERVICE TAG (2)



20" MANWAY



20" MANWAY FLANGE SEALING SURFACE

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MANWAY NOZZLE TUBE



INTERNAL OVERVIEW (1)



INTERNAL OVERVIEW (2)



14" BOOT



14" BOOT SHELL



14" BOOT HEAD

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INLET NOZZLE END OF SEPARATOR



INLET NOZZLE



INLET NOZZLE TUBE



SHELL TO HEAD WELD



MIDDLE SHELL CIRC-WELD AND LONG SEAM

