

API 510 EXTERNAL INSPECTION REPORT

WO#: No WO# - Priority Work

DATE (m/d/y): 10/22/2020	INSPECTOR: Justin Orichowski
REGISTERED EQUIPMENT: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LSD: 01-23-032-28W4
FACILITY NAME: Stewart Lake Gas Plant	FACILITY TYPE: GAS PLANT
SKID/PKG DESCRIPTION: East Bullet <small>e.g., K101 Compressor PKG, Dehy PKG, In the Meter Building</small>	EQUIPMENT STATUS: SHUT-IN (Not in use, connected to production/process)
EQUIPMENT TYPE: Bullet **Refer to Key Equipment Glossary**	EQUIPMENT SUB-TYPE: LPG **Refer to Key Equipment glossary**

VESSEL STATIC DATA

A#: 0227211	CRN: C4936.2134
NB# (Aerial Coolers): n/a	MANWAY: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
SN#: 27941A	SIZE: 18"
Year Built: 1986	MAWP: 250 psi / 1724 kpa

PSV DATA

Serial Number	Set Pressure	CRN	Capacity	Colour	Size [Inlet x Outlet]	Service Company
499245-1-A10	250 psi 1723 kpa	OG8442.5C	32291 scfm	Red	4 x 6"	Unified
						06/05/2018

ONLY INDICATE THE PRIMARY SERVICE CONDITION

<input checked="" type="checkbox"/> Sweet	<input type="checkbox"/> Sour	<input type="checkbox"/> Oil	<input type="checkbox"/> Gas	<input type="checkbox"/> Water
<input checked="" type="checkbox"/> Propane	<input type="checkbox"/> Condensate	<input type="checkbox"/> Air	<input type="checkbox"/> Glycol	
Other (Describe): - CEL VE/UT 07/18 Record any other identification (RAE numbers etc.)				

External Inspection Items	G	F	P	N/A	Comments
Insulation Verify sealed around manways, nozzles, no damage present, and there is no ingress of moisture. Are straps secured?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
External Condition Assess paint condition, areas peeling, record any corrosion, damage, distortion, etc. (record location, size and depth of corrosion or damage)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Leakage Record Any leakage at flanges, threaded joints, weep holes on repads, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Saddle Look for corrosion, buckling, dents, etc. Look at vessel surface area near supports. Verify no signs of leakage at attachment to vessel and attachment welds are acceptable. Is ground wire attached?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Anchor Bolts Hammer tap to ensure secure. Look for corrosion, cracking in threads or signs of deformation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Concrete foundation Check for cracks, spalling, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Ladder / Platform Describe general condition, ensure support is secure to vessel, and describe any hazards.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Any damage, deflection? Are nozzles gusseted? Inspect gussets for cracking.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
External Piping Ensure pipe is well supported. All clamps, supports, shoes, etc. in place. Look for evidence of structural overload, deflection, etc. Paint condition, external corrosion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Valving Ensure no leaks. Valves are properly supported and chained if necessary.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PSV Ensure PSV is set at / or below vessel MAWP. Discharge piping is same size (or larger than) valve outlet and is properly supported and routed. Seal wire intact? No If block valves in between, ensure they are locked/car sealed open. (Check log).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PSV properly installed and is supported adequately for the discharge loads.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Compressor Bottles Fretting, e.g., caused by loose grating and loose tubing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Equipment Photos



Photo 1 Description: Lease Sign



Photo 2 Description: Skid Overview

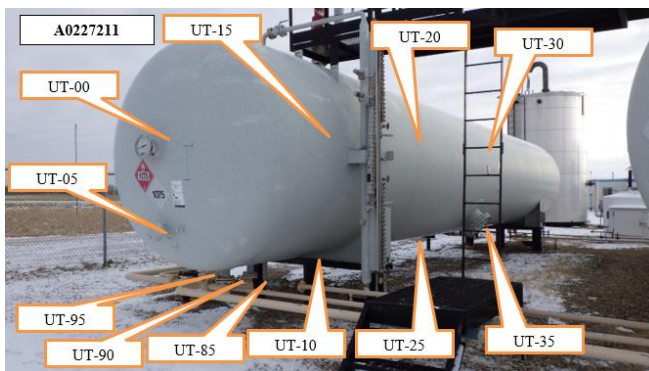


Photo 3 Description: Vessel Overview



Photo 4 Description: Vessel Nameplate



Photo 5 Description: PSV Overview

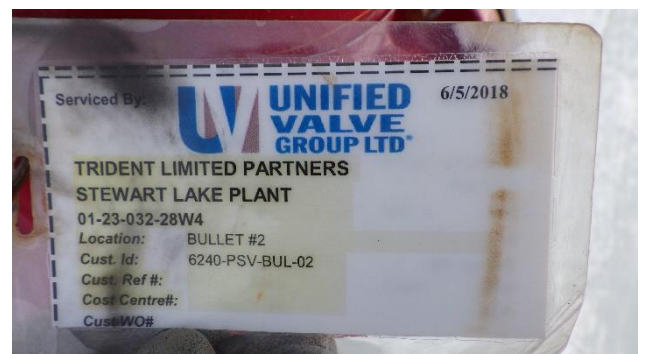


Photo 6 Description: PSV Service Tag Side 1

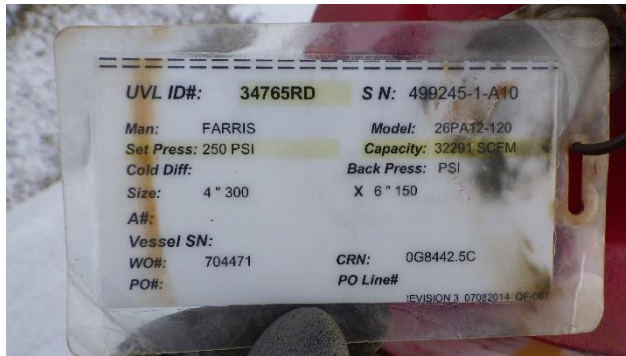


Photo 7 Description: PSV Service Tag Side 2



Photo 8 Description: PSV Valve Carsealed Open



Photo 9 Description: Temperature Gauge



Photo 10 Description: Pressure Gauge



Photo 11 Description: Anchor Bolts/Ground



Photo 12 Description: Manway Overview

Recommendations or corrective actions : Vessel is Fit for Service OR Describe Corrective Actions
(Integrity to review corrective actions with Operations, discuss with Chief Inspector where necessary, and get remedial action implemented)

OBSERVATIONS:

Vessel is Fit for Service

UT done as per CML locations. No indications of internal corrosion were found at time of inspection.

VE completed on vessel. No issues noted at time of inspection.

RECOMMENDATIONS:

SUMMARY:

****BELOW IS FOR INTERNAL CLIENT USE ONLY****

Inspection Interval:

ISI SIGNATURE

DATE

Complete as much as possible. All information is important! Use back of sheets to record additional information or sketch if required.