

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 06-22-057-20W5 Date: 29-May-2017 SAP Equipment ID: 66172348

		L STATIC					
Plant: Op Unit					System		
Foothills & BC	•						
Prov. Insp. # 483171	Equip Tag #						
Equipment Description						7751-03	3
Manufacturer						Pressu Vessel	ire
Internal Access: YES Descri	ption: Manwa	ıy			Year Built		
MAWP 1480 PSI	@	100	o	F	MDMT -	20	°F
CODE: U	RT: 1				PWHT: Yes		
Diameter 4 ft 6 in Length	(T/T) 16 ft	t O A	\L	mm / in		Horizo	ntal
Shell Mat'l 516-70N	Thickness	2	2.25	in	Corr Allowance	e .125	in
Head Mat'l 516-70N	Thickness	2	2.25	mm / in	Corr Allowance	e .125	in
Nozzle Mat'l	Thickness			mm / in	Corr Allowance	е	mm / in
Internal Coating: NO Internal Clad: NO					Capacity		m ³
Manway: YES	Inspection P	Port: YES	3		Saddle		
Nozzle Rating 600 lb. ANSI	Painted :	YES			Insulated	YES	
<u> </u>	PRC	CESS DA	TA				
Product Description				Sour			
Operating Pressure	kPa / PS	I C	peratin	g Temp	erature		°C / °F
	PSV :	STATIC D	ATA				
Location	Size	Set	Capa	acity	Manufacturer	Model	Service
Serial No. Inlet	Outlet F	Pressure	SCFM / Lbs GPM	s/Hr. /		/ Type	Date
428828 Piping 1.5 in	2 in 1	1378 psi	8930 s	cfm	Farris	26FA1	26-May-
			3-120	2017			
Pentair ID W-37492							
		uipment r					
Procedure# Description Manu	facturer	Model#		- 5	Serial#	Due	Date

INSPECTION SUMMARY

The **external** visual inspection (*January 2017*) of the equipment revealed:

- No relevant indications of in-service corrosion/erosion/mechanical defects or damage
- No non-conformances
- No inspection deficiencies

The **internal** visual inspection **(May 2017)** of the equipment revealed:

- No relevant indications of in-service corrosion/erosion. The internal chevron vein pack (non-pressure part) was mechanically damaged and had to be replaced in kind during the outage.
- No non-conformances
- No inspection deficiencies
- No requirements for inspection interval change

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	RECOMME	NDATIONS					
None							
	NONCONFORMANCES / IN	SPECTION DEFICIENCIES					
None							
INSPECTION PLANNING							
Inspection Strategy	Availability	Inspection Interval					
Inspection Date	Date of Last Inspect	Date of Next Inspect					



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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	Keith Courneyea	Kell Cennyes	Date	29-May-2017			
Reviewed and Approved by		*	Date				
Criticality Assessment Rerun		Inspection Planning Rerun					
Assessed Next Inspection Date		_					

DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location VISU	NCR	Comments
V1	General Other (Please Explain)	Good			Minor external corrosion noted less than .005 in deep as noted in areas of coating failure in item V11 below. Corrosion product was scraped away and wire brushed to allow for inspection.
V2	General Corrosion	Good			See V1
V3	General Leaks	None			
V4	Vibration	None			
V5	Dissimilar Flange Rating	None			
V6	Ladder/Stairway	Good			
V7	Heads	Good			
V8	Guy Wires				
V9	Electrical Ground	Good			
V10	Painted Inactive Corrosion	None			
V11	Coating/Painting	Fair			Paint failure noted at east end below manway on shell – approximately 2 square foot area. Several other small locations scattered around external.
V12	Expansion Joint or Bellows	NA			
V13	Gauge/Site Glass	Good			
V14	Shell	Good			
V15	Jacket	NA			
V21	Support Other (Please explain)	NA			
V22	Foundation	Good			Steel skid
V23	Anchor Bolts	Good			
V24	Saddle/Skirt	Good			
V25	Davit	Good			
V26	Fireproofing	NA			
V31	Connections Other (Please explain)	NA			
V32	Small Branches	Good			
V33	Nozzles	Good			
V34	Manways	Good			
V35	Reinforcing Pads	None			
V36	Inadequate Thread Engagement	None			
V37	Bolting	Good			
V38	Flanges	Good			
V39	Leak Clamps	None			
V41	Insulation Other (Please explain)	NA			
V42	Damage	NA			
V43	Penetrations	NA			
V44	Insulation Jacket	NA			
V45	Banding	NA			
V46	Seals/Joints	NA			
V51	Relief Devices Other (Please explain)	Good			



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V52	Corrosion	None		
V53	Leaks	None		
V54	Restricted Inlet/Outlet	None		
V55	Manual Operation Lever	NA		

DETAILED INSPECTION VISUAL INTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)				
V2	Corrosion (depth, length, width)	None			
V3	Erosion	None			
V4	Distortion	None			
V5	Blisters	None			
V6	Deposits	None			
V7	Heads	Good			
V8	Welds	Good			
V9	Nozzles	Good			
V10	Shell	Good			
V11	Gasket Surfaces	Good			
V21	Internals Other (Please explain)	Poor			Chevron vein pack was damage and parts were found in the bottom of the vessel. The vein pack was replaced. No damage to the vessel was found in the areas where the vein pack made contact with the shell.
V22	Demister	N/A			
V23	Baffle/Wier	Good			
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





Certified By NATCO CANADA LTD.
CALGARY, ALBER A CANADA
M. WP PSIG F
MOMT PSIG F
MOMT PSIG F
MATERIAL PSIG F
MOM D MATERIAL PSIG F
MATERIAL PSIG F
MOM D MATERIAL PSIG F
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Support connection to skid. Rust flakes from paint failure/ minor external corrosion above.



Paint failure area with minor external surface corrosion less than .005 in deep on east end. Not an integrity issue at the time of inspection.



Close up of paint failure/external corrosion area.



Support system at manway end



Support system at manway end photo 2



Manway/davit



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CUST / FIELDHUSKY / PINE CREEK

LOC-6-22-57-20W5 / D-11 INLET SEP.

MODEL 26FA13-120

S/N428B28-4-A10

SET 1378 PSI

CAP 8930 SCFM

DEW-37942

DATE MAY 26 2017

SAP 66172850 / PSV-84

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May 2017 Internal – Remainder of the vein pack removed from the vessel. No damage to the vessel shell or internal components

May 2017 Internal – New replacement vein pack prior to installation



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