



Pressure Equipment Integrity Management System Installation Inspection Form

NME Form I-2
Version 002.01
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Owner: Arsenal Energy Inc District/Area: British Columbia
Facility: Osborn Location (LSD) ♦: B-33-J/94-a-9

Vessel Data

A Number ♦: N/A Serial Number ♦: SNT-1066
CRN ♦: P6356.2 Vessel Type: Separator
Description ♦: Flare Knock Out Process: Flare
Tag No: Current Status: Out of Service

Course #1 (Main)

Orientation: Horizontal Coated? No Type: Vessel is not coated.
Fluids: Anodes? No Type: None Quantity:
Sour ♦? Yes Hand Holes? No
Manufacturer ♦: Sunwell Ind. Manway? Yes
MAWP ♦: 100 kPa MAWP Temp: C°
Shell Material: Not Specified Nom. Shell Thick: 25.4 mm
Head Material: Not Specified Min. Head Thick: 9.53 mm
Diameter: mm & Length: mm &
Year Built ♦: 2005 Installation Date ♦: Corrosion Allow: mm
Volume: m³ Stress Relieved? No
Radiography: ABSA Grade: 1

Course #2

Description: Course Type: ☐ Tubes ☐ Boot ☐ Vessel ☐ Firetube()Qty:
Fluids: Sour? ☐ Yes ☐ No
MAWP: ☐ kPa ☐ psi MAWP Temp: ☐ C° ☐ F°
Tube/Shell Material: Nom. T/S Thick: ☐ mm ☐ in.
Head Material: Min. Head Thick: ☐ mm ☐ in.
Diameter: ☐ mm ☐ in & ☐ ID ☐ OD Length: ☐ mm ☐ in.

PRV #1 Course #1 PRV Location or Position: Flare Knock Out Tank top shell
Serial No ♦: 24757-1 Model No: T-8200-2
Set Pressure ♦: 90 kPa Ports: 2"
Capacity: 892 scfm Manufacturer: Taylor
Service date ♦: Jun 11 2008 Serviced by: Dalco
Block Valve? No Install Date: Tag no: 81189

PRV #2 Course #2 PRV Location or Position:
Serial No: Model No:
Set Pressure: psi Ports:
Capacity: scfm Manufacturer:
Last Service date: Serviced by:
Block Valve? Install Date: Tag no:

Comments:



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SN: SNT-1066

Vessel Description: Flare Knock Out

Location(LSD): B-33-J/94-a-9

Installation Inspection

O.K.

Comment

Name Plate Accessible



PRV Outlet Piping Check



Atmosphere

Piping Connections Made



Inspection Access (i.e. skirt)



Flare Line Slope Check



Bolting Check



External Inspection

O.K.

Comments

Paint/Coating Condition:



Insulation Condition:



External Condition:



Foundation



Leaks/Drips/Seeping:



N/A

Bending/Warping/Distortion:



Dents/Cuts/Gouges:



Condition of Gauges:



N/A

Current operating pressure (shell):



psi



kPa Range:



psi



kPa

Current operating pressure (tube):



psi



kPa Range:



psi



kPa

Current operating temperature: (shell):



°F



°C Range:



°F



°C

Current operating temperature: (tube):



°F



°C Range:



°F



°C

Ladders/Walkways:



Ground Wire Connection:



Other Equipment:



PRV discharges to atmosphere, tie in to the flare. No discharge line, exposed to elements

PRV Data

	Vessel MAWP		PRV Set Pressure	PRV Capacity	PRV Size	Last Service Date	Serviced By	Block Valve Present?	Locked Open?
Shell Side	100 kPa	#1	90 kPa	892 scfm	2"	Jun 11 2008	Dalco	No	No
Tube Side									

PRV Check: ☒ OK- PRV Set pressure is not greater than vessel MAWP

☐ PRV is set too high. Reset PRV to vessel MAWP



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SN: SNT-1066 Vessel Description: Flare Knock Out Location(LSD): B-33-J/94-a-9

Additional Field Notes/Comments

Remedial Actions Required? no ☒ yes ☐ If yes, indicate required work and RA #: Remedial Action No.: _____

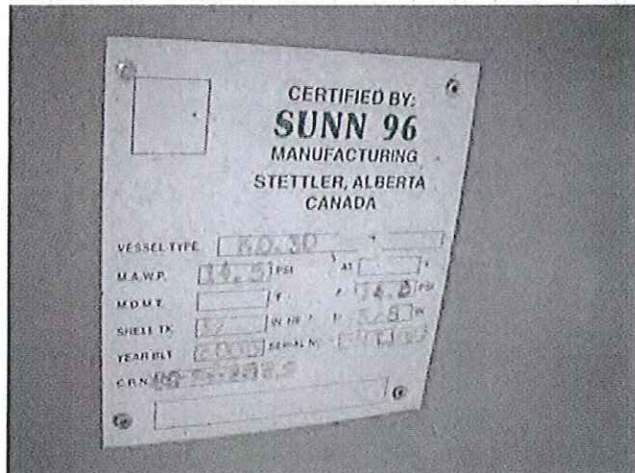
CRN not registered in BC. PRV is open to elements.

External condition is acceptable to warrant continued service? yes ☒ no ☐

Inspector Name: Tyler Letourneau Inspector Company: Northern Materials Engineering LTD.

Inspector Signature:  Inspection Date: Mar 11, 2010

Sketch / Image Area



Documentation

ABSA Documents Acquired:

☐ Manufactures Data Report (U-1A) ☐ ABSA Certificate of Inspection

Name Plate Information is correct?

☐ Yes ☐ No ☐ To be completed through routine ABSA reporting process

Design is registered in province (CRN)?

☐ Yes ☒ No, Generate a remedial action and arrange for design registration



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Service Conditions

Process Fluids Description:

<input checked="" type="checkbox"/> Sour	<input checked="" type="checkbox"/> Produced Water	<input type="checkbox"/> OWE	<input type="checkbox"/> Solids
<input checked="" type="checkbox"/> Condensed Water	<input type="checkbox"/> Amine	<input type="checkbox"/> Air	<input type="checkbox"/> Frac. Sand
<input checked="" type="checkbox"/> Liquid Hydrocarbon	<input type="checkbox"/> Glycol	<input checked="" type="checkbox"/> NG	<input type="checkbox"/>

Potential Mode(s) of Deterioration:

<input checked="" type="checkbox"/> Pitting	<input checked="" type="checkbox"/> Crevice	<input type="checkbox"/> High Temp	<input type="checkbox"/> Sulphidation
<input checked="" type="checkbox"/> General Corrosion	<input type="checkbox"/> Erosion	<input type="checkbox"/> Cavitation	<input checked="" type="checkbox"/> Under Deposit Corr
<input type="checkbox"/> External Atm. Corrosion	<input type="checkbox"/> Under Insulation	<input type="checkbox"/> Mechanical Damage	
Cracking> <input type="checkbox"/> SCC	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Fatigue	<input type="checkbox"/> Other

Area(s) Most Likely to Deteriorate:

<input type="checkbox"/> Top Head	<input checked="" type="checkbox"/> Bottom Head	<input type="checkbox"/> Nozzles	<input type="checkbox"/> Welds
<input type="checkbox"/> Attachments	<input checked="" type="checkbox"/> Shell (lower)	<input type="checkbox"/> Shell (Upper)	<input type="checkbox"/> Shell (other)
<input type="checkbox"/> Tubes	<input type="checkbox"/> Piping (inlet)	<input type="checkbox"/> Piping (outlet)	<input checked="" type="checkbox"/> Piping (drain)

Current Mitigation Program?

☐ Yes ☒ No
(if yes, describe)

Other Considerations?

☐ Yes ☒ No
(if yes, describe)

Additional Process Monitoring

☐ Yes ☒ No (if yes, describe in area below or attach details)

Fluids Sample (Type / Frequency/Analysis Req'd)

Corrosion Monitoring (Coupons / Probes)

Other (describe)

Inspection History

(Complete this section if the vessel is new and a baseline inspection was completed or if the vessel is used)

Inspection Company

Last Inspection Date

Inspection - Plan

Assigned Inspection Grade _____ (if different than Grade 1, describe basis for exception in Notes section below)

Activity Required	Yes	No	Interval (years)	Due Date (dd / mm / yy)	Comments
Offline Internal Visual	<input type="checkbox"/>	<input type="checkbox"/>		/ /	
UT Inspection	<input type="checkbox"/>	<input type="checkbox"/>		/ /	
Crack Inspection	<input type="checkbox"/>	<input type="checkbox"/>		/ /	
Additional Inspection(s)	<input type="checkbox"/>	<input type="checkbox"/>		/ /	
External Visual			N/A	/ /	
Initial PRV service interval				/ /	

Notes

Out of service.

Complete if Assessor is different than Inspector

Assessor Name:

Company:

Assessor Signature:

Assessment Date:

Report Certification

Report Certified By (signature)

ISPVI No:

000328