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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 :	517701		Serial Number •:	VS-12521
CRN ◆:	R3840.21		Vessel Type:	Separator
Description :	Inlet Separator		Process:	Plant Inlet
Tag No:	***************		Current Status:	In Service
Course #1 (Main)				
Orientation:	Vertical		Coated?	No Type: Vessel is not coated.
Fluids:	Natural Gas/Wa	eler	Anodes?	No Type: None Quantity:
Sour ♦?	Yes		_ Hand Holes?	No
Manufacturer ◆:	Argo Sales Ltd.	ann aig ag tha gan an ag an ionag gan	Manway?	No
MAWP ♦:	9929 kPa		MAWP Temp:	52 C°
Shell Material:	Not Specified	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Nom. Shell Thick:	38.1 mm
Head Material:	Not Specified		Min, Head Thick:	34.04 mm
Diameter:	mm &		Length:	mm &
Year Built :	2005	Installation Date +:	Corrosion Allow:	3.18 mm
Volume:	<u> </u>		Stress Relieved?	Yes
Radiography:	RT1	*************************************	ABSA Grade:	1
Course #2			WAST #10.00F-25 TO THE TOTAL PROPERTY OF THE	
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:	Inlet separator top h	nead on the roof
Serial No ♦:	20506-1		Model No:	T-8200-2
Set Pressure ◆ :	7378 kPa		Ports:	2'
Capacity:	16689 scfm		Manufacturer:	Taylor
Service date ♦:	Jun 1 2008		Serviced by:	Dalco
Block Valve?	No Insta	II Date:	Tag no:	
PRV #2	Course #2	PRV Location or Position:		
Serial No:			Model No:	
Set Pressure:	psi		Ports:	
Capacity:	scfm		Manufacturer:	
Last Service date:	***************************************	AND THE REAL PROPERTY OF THE PARTY OF THE PA	Serviced by:	
Block Valve?	Insta	II Date:	Tag no:	
Commonte				
Comments:	***************		**	



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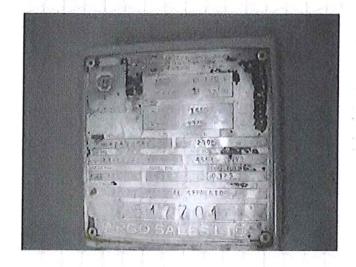
A#:	517701		_ Vess	el Descri	ption: Inlet Separator		Location(l	LSD): B-33-J/94-a-9		
Installation Inspection Name Plate Accessible		n	<u>O.K.</u> ⊠				Comment			
PRV Outle	et Piping Check	ĸ	\boxtimes							
Piping Co	nnections Mad	e	\boxtimes							
nspection	Access (i.e. sl	kirt)	\boxtimes							
lare Line	Slope Check		\boxtimes							
Bolting Ch	ieck		\boxtimes				46			
External	Inspection									
			O.K.				Comments			
Paint/Coat	ting Condition		\boxtimes	Flaking	and blistering noted					
nsulation	Condition:			N/A		Via				
External C	ondition.		\boxtimes	Surface	corrosion at flakes and	blisters				
Foundation	n:			Welded						
.eaks/Drip	os/Seeping:		\boxtimes							
3ending/W	Varping/Distortion	on:	\boxtimes							
Dents/Cuts	s/Gouges:		\boxtimes							
Condition o	of Gauges:		\boxtimes							
				Current	operating pressure (she	II): 100	⊠ psi □ kPa	Range: 0 to 5000	⊠ psi [] kPa
			16	Current	operating pressure (tube	e).		Range:	☐ psi [
				Current	operating temperature: ((shell):25		Range: -20 to 120	□°F⊠	
				Current of	operating temperature: ((tube):	□ °F □ °C	Range:	□°F□] °C
.adders/W	alkways:		\boxtimes							
Ground Wi	ire Connection:		\boxtimes						win the same	
Other Equip	pment:		\boxtimes							
PRV Dat	a					T		I		
	Vessel MAWP		PR Set Pre		PRV Capacity	PRV Size	Last Service Date	Serviced By	Block Valve Present?	Locked Open?
Shell	9929 kPa	#1	7	7378 kPa	16689 scfm	2'	Jun 1 2008	Dalco	No	No
-										



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A#: _	517701	Vessel Description: Inlet Separato	r Location	Location(LSD): B-33-J/94-a-9			
Additional	Field Notes/C	omments					
Remedial Ac	tions Required	no 🛛 yes 🗌 If yes, indicate required	d work and RA #: Remed	ial Action No.:			
No BC#							
External con	dition is accept	able to warrant continued service? yes	⊠ no □	·			
Inspector Name:		Tyler Letourneau	Inspector Company:	Northern Materials Engineering LTD.			
		111		Treatient indicated Engineering ETS.			
Inspector Sign	nature:	111	Inspection Date:	Mar 11, 2010			
Sketch / Ima	age Area						







Documentation

ABSA Documents Acquired: Name Plate Information is correct?

Design is registered in province (CRN)?

Manufactures Data Report (U-1A)

⊠Yes |

□No □To be completed through routine ABSA reporting process

⊠Yes

No, Generate a remedial action and arrange for design registration



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A#:	517701	Vesse	el Description:	Inlet Separa	lor	Location(LSD): B-33-J/94-a	-9
Service	Conditions						
	Fluids Description:		⊠ Sour			□owe	Solids
	ada guarte e d'articlea de la companya de la viva de la		⊠Condense	d Water	□Amine	□Air	☐Frac. Sand
			☑Liquid Hyd		□Glycol	⊠NG	
Potential	Mode(s) of Deterioration	1:	⊠Pitting		Crevice	☐High Temp	Sulphidation
			⊠General C	orrosion	□Erosion	☐ Cavitation	☑Under Deposit Corr.
			A CONTRACTOR OF THE PARTY	tm. Corrosion	☐Under Insulation	Mechanical Damage	Edouge, poposit com
	Crae	cking>	SCC	III. OONOSION	Hydrogen	Fatigue	Other
Area(s) A	Most Likely to Deteriorate		☐Top Head		⊠Bottom Head	□Nozzles	□Welds
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	noot amony to a styllololo		Attachmen	te	Shell (lower)	☐Shell (Upper)	Shell (other)
			Tubes	11.5	Piping (inlet)	Piping (outlet)	⊠Piping (drain)
					Clubud (men)	The shirt donner)	ESI ibilià (digiti)
Current N	Mitigation Program?		☐Yes ☒N (if yes, describe				
Other Co	onsiderations?		☐Yes ⊠N				
			(if yes, describe				
Addition	nal Process Monitori	ng []Yes ⊠No(if yes, describ-	e in area below or attach	details)	
Fluids Sa	ample (Type / Frequency	/Analysis	Req'd)				
	Monitoring (Coupons /						
Other (de	escribe)						
Inspecti (Complet	ion History le this section if the vesse	el is new	and a baseline	inspection wa	as completed or if the ves	sel is used)	
Inspectio	n Company			Lasi	Inspection Date		
Inspecti	ion – Plan Assigne	ed Inspec	ction Grade	(if differen	I than Grade 1, describe t	pasis for exception in Notes sec	tion below)
Activity R	Required	Yes	s <u>No</u>	Interval	Due Date		Comments
Monthly 15	equireo.			(years)	(dd / mmm / yy)		
Offline Int	ternal Visual		\boxtimes		1 1		
UT Inspe	ction	\boxtimes		4	1 1	UT due	
Crack Ins	spection		\boxtimes		1 1		
Additiona	Inspection(s)		\boxtimes		1 1		
External \	Visual			5	11/ Mar /2015		
Initial PR	V service interval			3	01/ Jun /2011		
Notes							
Comple	to if Angelese In diffe	ront al-	an Increates				
	te if Assessor is diffe	nent th	an mapector		Company		
Assessor					Company		
Assessor	Signature:				Assessment Date		
Report (Certification						
Report Co	ertified By (signature)	1	<i>*</i>		ISPVI No:	000328	
						Revised June 8, 2010 I	Northern Materials Engineering Ltd.