

Report #: 91517-CA-37
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Cri	ticality Designation:				Gr	een	
In	sp. Comp: Matrix_Insp	ection	District:	St Albert - Sout	h	Field: Rir	mbey 1477
	Location: 06-29-045-		Jnit / Skid #:				9-045-01W5
Juri	sdiction #: A27042		Equip Tag #:		60	rial #: FV-2	24-14-1744A
	CRN #: K3547	.2	Nat'l Bd #:		Year	Built:	1991
Mar	nufacturer: OPSCO		E	quipment Descriptio	n: Other: DEHYDRATO	OR	
	Status: In Service -			p. Type: Vessel:			e: Sweet
	WP Shell: 1440 Psi	@ 100		Volume:			p: 🗌 Y 🔯 N
MA	WP Tube: Psi	@		ght/Length:	in.		d: ☐ Y ⊠ N
	MDMT: -20 °F	RT:		/Diameter.: 24	in. O.D.		T:
	Support Skirt		_	nal CNRL Inventory			y: 🗌 Y 🔯 N
	C.A.: 0.063 in.	Coated: N	10 (J.E.: Remote	Access: -	
	Component	Ma	nterial	Nominal Thk	Diameter OD	ID Tube Side	e Shell Side
1	Main - Shell						
2	- Head						
3	- Head					<u> </u>	
4	-					<u> </u>	<u> </u>
5							
Stat	ic Data: Confirmed	Changed (See	e Comments)	<u> </u>			
	nments:						
Nev	information added						
PSV S	Static Data						
	Static Data PSV -1 Tag #: PSV27042	234	Serial #:	CF-2159-KD	CRN	ı·	
	Static Data PSV -1 Tag #: PSV27042 Model #: 2741U	234		CE-2159-KD 11115 SCFM	CRN Set Pressure		
	PSV -1 Tag #: PSV27042 Model #: 2741U	234		CE-2159-KD 11115 SCFM	Set Pressure	e: 1440 psi	
	PSV –1 Tag #: PSV27042 Model #: 2741U Manufacturer: Farris				Set Pressure Service Company	e: 1440 psi /:	
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06-29-045-01W5 A2704234 Matrix_Inspection Insp. Company: LSD: Jurisdiction #: External Inspection Results - VE External Inspection Performed Action Item Action Item Comment NCR Item N/A Condition (Check Status Bar or Press F1 for Help) Integrity Maintenance Nameplate Clear and readable Accept Foundation and Supports П Accept light surface corrosion on the skirt **Anchor Bolts** Accept Tight. clean ground through structure Grounding Accept Insulation Condition \boxtimes this vessel is not insulated **PSV** see PSV comments Accept light surface corrosion at roof interface Shell Heads & Nozzles Accept Metal Surfaces (Paint) Reject flaking, peeling All appear to be functioning as expected. Aux Equipment Accept Cathodic Protection \boxtimes None Noted straight and level Alignment Accept Flange Connections П proper engagement. light surface corrosion. Pressure Gauge Accept clear and readable Temperature Gauge clear and readable Accept Sight Glass П Accept good condition Ladder / Platform \boxtimes Leaks П No Piping from Vessel No surface Corrosion Accept Previous UT Survey Yes No data available **UT Company:** External Visual Observations An external visual and UT corrosion survey inspection was performed on A2704234, dehydrator at the 06-29 site to help determine suitability for continued service. The vertical vessel has a skirt style support. The support is bolted to the structure. No deformation or deflection was noted. The paint is well adhered and the support was free of corrosion. The data plate was firmly affixed to the shell and was both clean and readable The heads, shell and nozzles are painted. The paint was found in good condition with no chips and flakes and all surfaces were free of extensive external corrosion and pitting All flange bolting was fully engaged but surface corrosion was found on flanges and flange bolting. The temperature gauge was clear and readable. The sight glass was clear and readable The roof to shell interface was previously sealed, but the seal has failed, allowing environmental ingress and staining on the shell All piping was noted to be well supported, painted and free of extensive corrosion with no leaks found.

UT corrosion survey was performed on selected areas of the shell, heads, nozzles and piping at suspect locations. All readings recorded were found to be at or above nominal thickness - corrosion allowance. Evidence of previously performed surveys was

Recommendations:

Overall this vessel was in good condition

Clean and repaint the vessel as required to ensure continued corrosion protection

noted but no access to previous UT data was available at the time of inspection.



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Internal Inspection Results – VI N/A (Not Applicable)								
				Comment		Action Item	Action Iter	n
Item	N/A	Condition	(Che	eck Status Bar or Press F1 for Help)	NCR	Integrity	Maintenan	
Shell			No Internal In	spection Carried Out				
Heads				spection Carried Out				
Manway	\boxtimes		No Internal In	spection Carried Out				
Gasket Surfaces			No Internal In	spection Carried Out				
Welds			No Internal In	spection Carried Out				
Refractory			No Internal In	spection Carried Out				
Heating Coils			No Internal In	spection Carried Out				
Demister Pad			No Internal In	spection Carried Out				
Vane Pack	\boxtimes		No Internal In	spection Carried Out				
Baffles				spection Carried Out				
Trays			No Internal In	spection Carried Out				
Filter				spection Carried Out				
Internal Coating				spection Carried Out				
Tubesheet				spection Carried Out				
Tube Bundle				spection Carried Out				
			1.10			Ш		
Internal Visual Observa	ations							
No Internal Inspectio	n Carried C	Out						
Recommendations:								
	0							
No Internal Inspectio	n Carried C	Out						



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Insp. Company: Ma	trix_In	spection	LSD:	06-29-	045-01W5		Jurisdiction #:	A27	04234	=
Firetube Static Data Vessel Not Equiped with Firetube										
Diameter: Not Applical		Equiped witi		Thicknoss:	Not Applicat	alo		Rond: Not	Applicable	
										_
Firetube NDE	UT									
Performed:		-	t#: Not Applic		RT		Report#: Not			
PT Report#: Not Applicable Other Report#: Not Applicable										
Firetube Inspection Results										
Item	N/A	Condition			nment		NCR	Action Item	Action Item	T
		Condition	-		or Press F1 for F	lelp)		Integrity	Maintenance	
Burner			No Firetube I							4
Stack			No Firetube I						<u> <u> </u></u>	4
Flange (Throat)			No Firetube I					<u></u>	<u> </u>	_
Tube Sheet			No Firetube I				<u> </u>	<u> </u>	<u> </u>	4
Hot Side			No Firetube I					<u> </u>	<u> </u>	_
Miter			No Firetube I					<u> </u>	<u> </u>	_
Return Bend			No Firetube I	•				<u> </u>	<u> </u>	\dashv
Supports Butt Welds			No Firetube I							\dashv
Fillet Welds			No Firetube I					- H		-
Fillet Welds			No Filetabe i	rispection C	arrieu Out					
Firetube Visual Observation	S									
No Firetube Inspection Ca	arried	Out								
Recommendations:										
No Firetube Inspection Ca	arried	Out								



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Insp. Company:	Matrix_Inspection	LSD: 06-29-045	-01W5	Jurisdiction #:	A2704234							
Vessel NDE and Final	Summary:											
7000011102 4114 1 11141	UT Report#:		ЕТ □	Report#:								
NDE Performe			RT 🗌	Report#:								
	PT Report#:		Other \square	Report#:								
Maxi-Trak Observations	s Summary (Summarize i	nspection results Max 255	Characters):									
Vessel is straight and level with minor surface corrosion												
		arize Recommendations M		ers):								
Clean and repaint the	evessel as necessary to e	ensure continued corrosio	n protection									
Actions Corrected at T	ime of Inspection: (If action	s were corrected at the time of In	spection – note the o	corrected actions here.)								
None	-											
Additional Visual Obser	rvations											
none												
Any other safety conce	rns or observations from	associated equipment: (fo	or example asso	ciated piping buildings	oumps etc)							
None	The or observations from t	addoddatod oquipmont. (ic	7 Oxampio acco	olatoa pipinig, ballalingo, j	sumpo oto)							
None												



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Thickness and Remaining Life Evaluation

" Must be Completed"

MUST BE COMPLETED AND RESOLVED WITH CNRL IMMEDIATELY UPON DISCOVERY OF LOW WALL THICKNESS AREAS

Step 1: Was any thickness measurement location found to be less than (Nominal WT - Corrosion Allowance)?: No

If YES, proceed to Step 2; if NO, proceed to "Crack Evaluation" and "CNRL Criticality Designation".

Step 2: Which component(s) were found below (Nominal WT - Corrosion Allowance)?

Components found below Nom - CA:

Components					
N/A - N/A					
N/A - N/A					
N/A - N/A					
N/A - N/A					
N/A - N/A					

Perform Steps 3 – 8 for each component with actual thickness less than (Nominal WT – Corrosion Allowance).

Step 3: Describe Location and Extent of Corrosion:

Components

Location and Extent of Corrosion

N/A - N/A	Not Applicable for this Inspection
N/A - N/A	Not Applicable for this Inspection
N/A - N/A	Not Applicable for this Inspection
N/A - N/A	Not Applicable for this Inspection
N/A - N/A	Not Applicable for this Inspection

Notes:

Not Applicable for this Inspection

Step 4:

- For shells and nozzles, calculate minimum required thickness (T-min) as per ASME Section VIII UG-27.
- For heads, calculate minimum required thickness (T-min) as per ASME Section VIII UG-32.

11115	Compo
Ά	N/A -
Ά	N/A -
'A	N/A -
'A	N/A -
'A	N/A -
'A 'A 'A 'A	N/A - N/A - N/A -



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Thickness and Remaining Life Evaluation (Continued)

Step 5: Is any measured thickness less than calculated minimum required thickness (T-min)? N/A

If YES, complete Step 6
If NO, proceed to Step 7..

Step 6: Is nature and extent of pitting acceptable as per API 510? N/A

Step 7: Calculate Remaining Life as per API 510. How? (Find last reading; use nominal thickness if nothing available). Short Term Corrosion Rates and Long Term Corrosion Rates.

Components	Remaining Life (Yrs)
N/A - N/A	N/A

Step 8: Contact CNRL Integrity Coordinator to discuss above results.

- Name of CNRL contact: Not Applicable for this Inspection
- Date and time of conversation: Not Applicable for this Inspection

Summary/results of conversation: Not Applicable for this Inspection

Crack Evaluation by Magnetic Particle or Alternative Inspection "Must be Completed"

MUST BE COMPLETED AND RESOLVED WITH CNRL IMMEDIATELY UPON DISCOVERY OF CRACK-LIKE INDICATIONS

Were any indications found to suggest the vessel contained cracks? N/A

If NO, proceed to "CNRL Criticality Designation".

If YES, Contact CNRL Integrity Coordinator to discuss results.

- Name of CNRL contact: Not Applicable for this Inspection
- Date and time of conversation: Not Applicable for this Inspection

Summary/results of conversation:

Not Applicable for this Inspection



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CNRL Criticality Evaluation – "MUST BE COMPLETED"

The CNRL In-Service Pressure Vessel Inspector MUST answer all the following questions

- 1. Is the vessel fit-for-service?: Yes
- 2. Was the measured thickness less than the calculated minimum required thickness (T-min) for any component?: No
- 3. Were MT indications found?: **N/A**
- 4. Was the remaining life less than 6 years for sour service vessels or less than 10 years for sweet service vessels?: **No**
- 5. Were NCR's or Action Items generated as a result of the inspection? : **No**
- 6. Were UT readings below (Nominal WT Corrosion Allowance) found? : No

Information on CNRL Owner User Program - Criticality Designation and Required Review

RED – Vessel Inspection Results are deemed RED if one of the following occurred:

- The measured thickness was less than the calculated minimum required thickness (T-min) for any component.
- MT indications were found.
- The remaining life was calculated to be less than 6 years for sour-service vessels or less than 10 years for sweet-service vessels.

RED inspection reports must be signed off by the CNRL Chief Inspector.

YELLOW - Vessel Inspection Results are deemed YELLOW if one or more of the following occurred:

- The vessel was declared NOT fit-for-service by the 3rd Party In-Service PV Inspector.
- NCR's or Action Items were generated as a result of the inspection.
- UT readings below (Nominal WT Corrosion Allowance) were found.

YELLOW inspection reports must be signed off by the CNRL Pressure Equipment Integrity Coordinator.

GREEN - Vessel Inspection Results are deemed GREEN if all of the following are true:

- The vessel was declared fit-for-service by the 3rd Party In-Service PV Inspector.
- UT readings below (Nominal WT Corrosion Allowance) were NOT found.
- MT indications were NOT found.
- NCR's or Action Items were NOT generated as a result of the VE inspection.

GREEN inspection reports must be signed off by the 3rd Party In-Service Pressure Vessel Inspector.

Criticality Designation						Gn	een een	
Vehicle #:	Kms:		1	nspector (Name):	Chris Auld		PESL:	IBPV 206
Time In:	00:00 Time Out:	00:00 Hrs		nspector (Signature): 06/30/2010_08:43:20 am	Inspector Signature	API:	510- 34022
Time In:	00:00 Time Out:	00:00 Hrs	C	CNRL Coordinator	r (Name):			
Personnel:				CNRL Coordinator	(Signature):			Coordinator Signature
Billing Info:				CNRL Chief Inspe	ctor (Signatura):	(I am in full agreer	ment with re	port contents)
Dilling IIIIO.	•			Siving Chief Hispe	cioi (signature).	(I am in full agreer	nent with re	port contents)



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Equipment Photographs:





01-DATA PLATE







03-VESSEL OVERVIEW OUTSIDE

04-PRESSURE GAUGE



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05-TEMP GAUGE

06-SKIRT AND BASE



07-FLANGED CONNECTION