DigiStation Tablet

PRESSURE VESSEL VISUAL INSPECTION REPORT

 Report #:
 GP30300

 Inspect Date:
 27 Sep 2013

 Job #:
 09-06-082-15W5

DIGISTATION TABLET[™]

Green		Insp	. Interval Cha	nge:	
District: Seal			-ield: Seal Ma	in	
Unit / Skid #:	Facility: 09-06-082-15W5				
 Equip. Tag #:		Ser	rial #: 128560.	.1	
Nat'l Bd #: 23607		— Year	Built: 2013		
	Equip. Description	: Aerial Cooler			
	Equip. Type	: Aerial Cooler		Service: Un	Iknown
	Capacity	:	— Coc	le Stamp: 🔽	Yes 🗌 No
	Height/Length	:	_	nsulated:	Yes 🔽 No
Radiography:	Size/Diameter	:	_	PWHT:	Yes 🔽 No
Joint Efficiency:			_	Manway:	Yes 🔽 No
Coated: No	Clad	: Yes	Remote	e Access:	
Changed:			On Inve	ntory List: 🗌	Yes 🗸 No
	Nominal Thk	Corr Allow			Side
	Nominal Tirk	Corr Anow.	Design I with	Calc I Will	Side
	I				
Serial #:			CRN:		
Capacity:		Set Pre	essure:		
		Service Con	npany:		
		Last Service	e Date:		
Ble	ock Valve:	-		-	
		Code S	Stamp:		
Out for Service duri	ng Insp.: 	Location o	f PSV:		
	Unit / Skid #: Equip. Tag #: Nat'l Bd #: 23607 Nat'l Bd #: 23607 Radiography: Coated: No Changed: ✓ Changed: ✓ Changed: ✓ Changed: ✓ Serial #: Capacity: Bla	Unit / Skid #: Equip. Tag #: Nat'l Bd #: 23607 Equip. Description Equip. Type Capacity Height/Length Radiography: Joint Efficiency: Coated: No Changed: V Material Nominal Thk Serial #:	Unit / Skid #	Unit / Skid #: Facility: 09-06-0 Equip. Tag #: Serial #: 128560. Nat'l Bd #: 23607 Year Built: 2013 Equip. Description: Aerial Cooler Equip. Type: Aerial Cooler Equip. Type: Aerial Cooler Capacity: Capacity: Cooler Bioth // Length: Cooler Joint Efficiency: Cooler Coated: No Clad: Yes Changed: On Invertion Material Nominal Thk Corr Allow. DesignTMin Corr Allow. DesignTMin Serial #: CRN: Service Company: Capacity: Service Company: Last Service Date: Block Valve: - Code Stamp:	Unit / Skid #: Facility: 09-06-082-15W5 Equip. Tag #: Serial #: 128560.1 Nat'l Bd #: 23607 Year Built: 2013 Equip. Description: Aerial Cooler Service: Ur Capacity: Code Stamp: Insulated: Radiography: Size/Diameter: PWHT: Joint Efficiency: Manway: Size/Diameter: PWHT: Coated: No Clad: Yes Remote Access: Changed: On Inventory List: Manway: Insulated: Material Nominal Thk Corr Allow. DesignTMin CalcTMin Serial #: CRN: Service Company: Service Company:

Insp. Company: PennWest

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Facility: 09-06-082-15W5

Item	N/A	Condition	Comment	NCR	Action Item Integrity	Action Item Maintenance	
Nameplate		Accept					
Foundation and Supports		Accept					
Anchor Bolts		Accept					
Grounding		Accept					
Insulation Condition		Accept					
PSV							
Shell Heads & Nozzles		Accept					
Metal Surfaces (Paint)		Accept					
Valves		Accept					
Cathodic Protection							
Alignment		Accept					
Flange Connections		Accept					
Pressure Gauge							
Temperature Gauge	\checkmark						
Sight Glass	\checkmark						
Ladder / Platform	\checkmark						
Davit Arm	\checkmark						
Reinforcement Pads	\checkmark						
Manway Size	\checkmark						
Leaks							
Piping from Vessel		Accept					
External Visual Observations:							
Aerial Cooler is In-Line Boleted. Cooler and Associated Piping Looked Good.							
Recommendations:							

Insp. Company:	PennWest
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Item	N/A	Condition	Comment	NCR	Action Item Integrity	Action Item Maintenance
Shell						
Heads						
Manway						
Gasket Surfaces						
Welds						
Refractory						
Heating Coils						
Demister Pad						
Vane Pack						
Baffles						
Trays						
Filter						
Internal Coating						
Tubesheet						
Tube Bundle						
Internal Visual Observations	3:	· · · · · · · · · · · · · · · · · · ·				

Insp. Company: PennWest		Facilit	Facility: 09-06-082-15W5 Juris		Jurisdiction	1:			
Firetube Static Data:									
Diameter: m			Nom Thickness:	mm		В	end:		
Length: m			Fir	- etube Description:			_		
Firetube NDE Performed:	1	UT:	Report #:			ET:	Report #	:	
	1	MT:	Report #:			RT:	Report #	:	
		PT:	Report #:			Other	Report #	:	
Firetube Inspection Results:									
Item	N/A	Сог	ndition		Comment		NCR	Action Item Integrity	Action Item Maintenance
Burner									
Stack									
Flange (Throat)									
Tube Sheet									
Hot Side									
Miter									
Return Bend									
Supports									
Butt Welds									
Fillet Welds									
Firetube Visual Observations:									
Recommendations:									

Insp. Company: PennWest	Facility: 09-06-082-15W5 Jurisdiction:
Vessel NDE and Final Summary	
NDE Performed: UT MT PT	Report #: ET Report #: Report #: RT Report #: Report #: Other Report #:
Maxi-Trak Observations Summary (Summar	ize inspection results Max 255 Characters):
Green - 4 Years	
Maxi-Trak Recommendations Summary (Su	nmarize Recommendations Max 255 Characters):
Actions Corrected at Time of Inspection (If a	ctions were corrected at the time of Inspection - note the corrected actions here.):
Additional Visual Observations:	
Any other safety concerns or observations fro	om associated equipment: (for example associated piping, buildings, pimps etc):
Recommended Inspection Interval : 48 mont	15

Thickness and Remaining Life Evaluation

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

Step 1: Was any thickness measurement location found to be less than (Nominal WT - Corrosion Allowance)?:

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

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

Components found below Nom - CA:



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

Step 3: Describe Location and Extent of Corrosion:

Components	Location and Extent of Corrosion

Notes:

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.

Components	T-Min

Thickness	and Remaining Life Evaluation (Con	tinued)						
Step 5:	5: Is any measured thickness less than calculated minimum required thickness (T-min)?:							
	If YES, complete Step 6.							
	If NO, complete Step 7.							
Step 6:	Is nature and extent of pitting acceptable as per API 510?:							
Step 7:	tep 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)					
Step 8:	Contact Integrity Coordinator to discus	s above results						
	Name of Contact:	s doove results.						
•	Date and time of conversation:							
Summary/r	results of conversation:							
Summaryn								
Crack Eva	luation by Magnetic Particle or Alterr	ative Inspection						
MUST BE	COMPLETED AND RESOLVED IM	MEDIATELY UPON DISC	OVERY OR CRACK-LIKE INDICA	TIONS				
Were any i	ndications found to suggest the vessel co	ntained cracks?						
If NO, proc	ceed to "Criticality Designation"							
If YES, Cor	ntact Integrity Coordinator to discuss res	ults.						
•	Name of Contact:							
•	Date and time of conversation:							
Summary/r	results of conversation:							

Criticality Evaluation								
The 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? : No								
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 Owner User Program - Criticality Designation and Required Review								
RED - Vessel Inspection Results are deemed RED if <u>one</u> 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 sweat-service vessels.								
RED inspection reports must be signed off by the Chief Inspector.								
YELLOW - Vessel Inspection Results are deemed YELLOW if <u>one or more</u> 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 Pressure Equipment Integrity Coordinator.								
GREEN - Vessel Inspection Results are deemed GREEN if <u>all</u> 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 Green								

Insp. Company: PennWest	 Facility: 09-06-082-1	5W5 Jurisdiction	
Time In: T	 Irs Irs	Inspector (Name): Gerald Page Inspector (Signature): Company Coordinator (Name): Company Coordinator (Signature): Chief Inspector (Name): Chief Inspector (Signature):	Prov. Lic. #: 000412 API: (I am in full agreement with report contents) (I am in full agreement with report contents)