

TANK INSPECTION REPORT

Report # **TK- ET10AUG2015b**

Inspector: Ed Tymensen,
API 510 #27479, API 653 # 50479



Reference Inspection Report # _____

Facility	Drayton Valley	Location	Warehouse / Boneyard	Date	Aug 10, 2015
Serial #	STTK-QJ-T2-15675	PW Equipment #	PWA - 19577	Capacity	400 bbl
Manufacturer	Bilton	Year	2011	Product Stored	
Tank Location	Construction <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass Other: _____				

Thickness: **Floor** 3/16" 1/4" 5/16" **Shell** 1/8" 3/16" 1/4" **Roof** 1/8" 3/16" 1/4"

FLOOR

External Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> Inspection Not Performed
Internal Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	_____
Bottom Plate Projection	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	Not visible, foam insulated
Internal Coating Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> N/A
Floor Leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
UT Inspected	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> UT Inspection Not Performed

Comments/Recommendations: Floor underside 100% visible. No corrosion or damage noted. Floor topside coated, coating in good condition. No failures noted. UT scans found no evidence of wall thinning.

ROOF

External Condition	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	Roof Leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
External Coating Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	Vented?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Internal Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory		
Internal Coating Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> N/A	

Random Roof Plate UT Readings (inches)

Location	1	2	3	4	5	6	7	8	9	10

Comments/Recommendations: Roof foam insulated on external side. No visual performed. Roof coated internally, coating in acceptable condition, no signs of failure noted.

SHELL

External Condition	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	Shell Leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
External Coating Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	Nozzles Back Welded?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Internal Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory		
Internal Coating Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> N/A	

Manual Shell Plate UT Readings (inches)

Location	1	2	3	4	5	6	7	8	9	10
North	0.225"	0.220"	0.218"	0.220"	0.221"	0.220"	0.220"	0.221"	0.219"	0.219"
East	0.228"	0.229"	0.225"	0.224"	0.220"	0.224"	0.226"	0.215"	0.219"	0.220"
South	0.218"	0.220"	0.215"	0.214"	0.218"	0.219"	0.213"	0.212"	0.209"	0.211"
West	0.225"	0.225"	0.221"	0.219"	0.220"	0.216"	0.218"	0.218"	0.217"	0.214"

Comments/Recommendations: Shell foam insulated externally. No visual performed. Foam insulation in good condition. Shell coated internally, coating in acceptable condition, with no failures noted.

NOZZLES

External Condition Satisfactory Unsatisfactory Inspection Not Performed
 Internal Condition Satisfactory Unsatisfactory _____
 Internal Coating Condition Satisfactory Unsatisfactory N/A

Nozzle and Manway External UT Thickness Results

Description	Size (inches)	Location	Re-pad		Neck Thickness (inches)				Center Line
			Yes	No	0°	90°	180°	270°	
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
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			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					

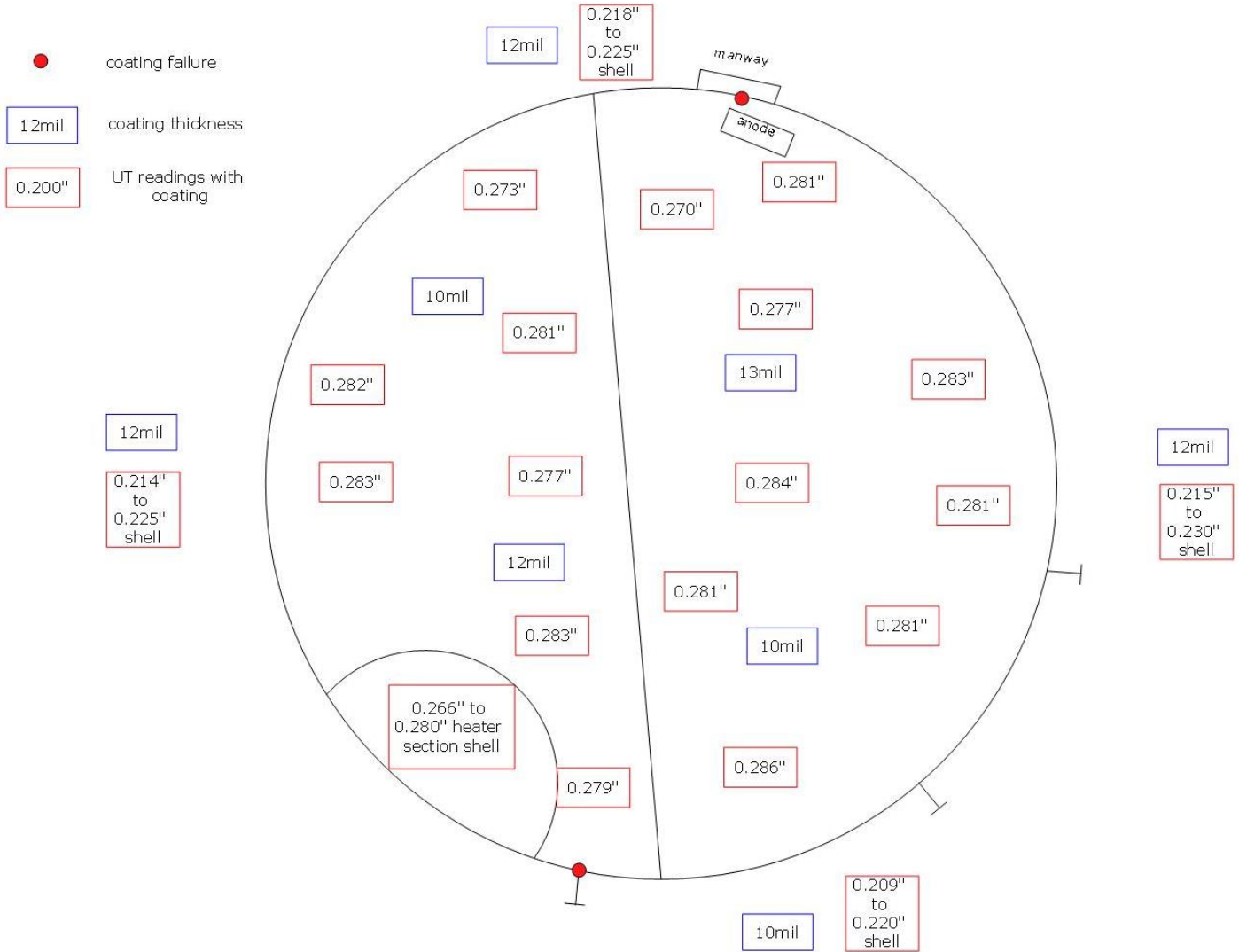
Note: Location starts at 0 from nameplate manway going clockwise.

Comments/Recommendations: Nozzles foam insulated externally. Nozzles coated internally. Several small coating failures noted on one nozzle. No corrosion or damage noted internally.

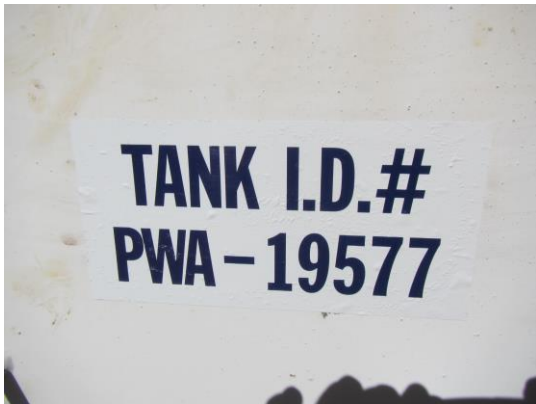
Burner Tube Satisfactory Unsatisfactory N/A _____
Ladder Condition Satisfactory Unsatisfactory Warning Sign? Yes No
Gauge Board Satisfactory Unsatisfactory N/A _____
Anode Condition Satisfactory Unsatisfactory N/A _____
Valves Satisfactory Unsatisfactory N/A Clip Gate Valves Present Yes No
Piping Satisfactory Unsatisfactory Inspection Not Performed
Envirobox Satisfactory Unsatisfactory N/A
Loading Envirobox Satisfactory Unsatisfactory N/A
Tank Above Grade Satisfactory Unsatisfactory Tank skidded _____
Visual Leak Detection Satisfactory Unsatisfactory _____
Impervious Liner Satisfactory Unsatisfactory N/A _____
High Level Control Satisfactory Unsatisfactory N/A _____
Dike Satisfactory Unsatisfactory Tank in boneyard

Tank Suitable for Continued Service Yes No Recommended Reinspection Period 5 years

Comments/Recommendations: Tank was inspected in Drayton Valley Boneyard.
 - Tank is foam insulated externally preventing external inspection of tank surface. Insulation in good condition.
 - Tank is skidded, floor underside 100% visible. No corrosion or damage noted on floor underside.
 - Some product was found above first course on shell, limiting visual inspection of coating.
 - Tank is epoxy coated internally. Coating was found to be in good overall condition.
 - Several small coating failures noted on one nozzle and on manway. No corrosion noted at coating failure locations.
 - All coating failures were patch coat repaired by Streamline Inspection.
 - No evidence of wall thinning of floor or shell CUI corrosion noted during UT scans done from internal surfaces.
 - Tank is in good condition and fit for service.
 New PWA# issued by Streamline Inspection



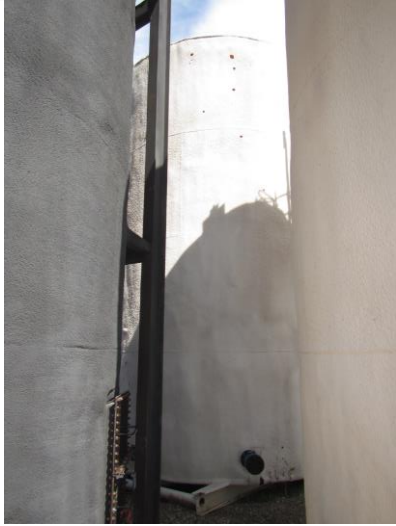
INSPECTION PHOTOGRAPHS



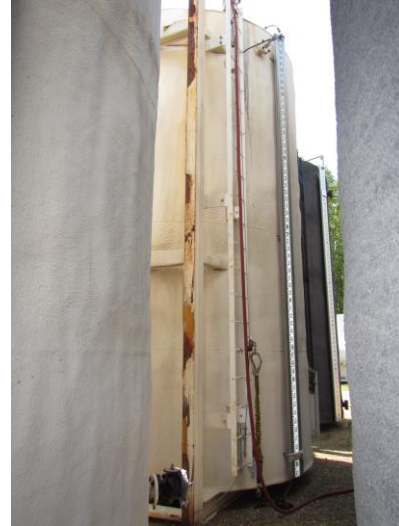
NEW PWA TAG



DATAPLATE



TANK OVERVIEW



TANK OVERVIEW



LEVEL CONTROL AND GAUGE BOARD



MANWAY



TANK SKIDDED



FLOOR UNDERSIDE



HEATER SECTION



ANODE



FLOOR OVERVIEW



HEATER SECTION INTERNALLY



FLOOR AND SHELL



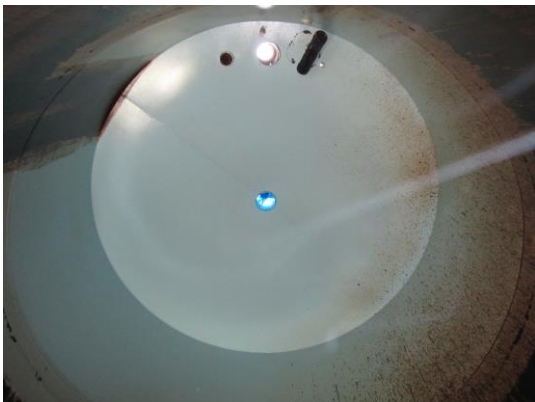
SHELL OVERVIEW



FLOOR TO SHELL FILLET WELD



FLOOR LONGSEAM



ROOF OVERVIEW



NOZZLES



NOZZLE COATING FAILURE



FLOAT



MANWAY COATING REPAIR



NOZZLE COATING REPAIR