



Diversified Technology Services

1837 Sequoia Drive – Santa Maria, California 93454 – 805-928-6392

EXTERNAL VISUAL INSPECTION REPORT (API-653 – Atmospheric Storage Tanks)

	Client: <u>DTS Client</u>	Location: <u>Somewhere USA</u>
	Storage Tank Number: <u>Tk-1902</u>	Date Built: <u>1972</u>
	Storage Tank Name: <u>Oxidizer Tank</u>	
	P&ID No.: <u>F-9761-6</u>	Service: <u>Process Slurry</u>
	Inspector Name: <u>API Certified Insp</u>	API 653 # <u>16</u> Date: <u>12/24/2003</u>

* Inspection Interval Statistics *

Date of last Inspection: Unknown Date of Next Inspection: 12/2008

* Storage Tank Statistics *

Item	Area of Interest	Condition				Comments
		Good	Fair	Poor	N/A	
<input checked="" type="checkbox"/>	Carbon Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	Insulated	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	Non-Insulated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	Partial Insulated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1	Shell		X			
2	Roof				X	
3	Nozzle & Bolts		X			
4	Manway & Flange Bolts		X			
5	Welds Seams	X				
6	Gauging Platform	X				
7	Ladders & Cages				X	
8	Handrails	X				
9	Stairway & Treads	X				
10	Insulation or Coating		X			
11	Foundation	X				
12	Windgirder				X	
13	Supports				X	
14	Gaugewell				X	
15	Fill hatch				X	
16	Davits				X	
17	Level Indicator				X	



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Item	Area of Interest	Condition				Comments
		Good	Fair	Poor	N/A	
18	Safety Steam Lines				X	
19	Safety Valve s Disc. Lines				X	

Item	Area of Interest	Condition			Comments
		Yes	No	N/A	
20	Safety Valve Removed			X	
21	Ground wire			X	
22	Corrosion	X			
23	Name Plate Attached		X		
24	Visible Leaks		X		
25	Riveted Shell		X		
26	Visible Distortion		X		
27	Weep Holes Okay			X	
28	Blistering		X		
29	Other				

* Narrative description of findings *

Date: 12/24/2003

Storage Tank No.: Tk-1902

An External inspection was performed in accordance with the guidelines of API-653. This was an open top tank that had an additional containment top installed. There is significant corrosion along the top edge of the tank shell, this is above the liquid level of the tank. (See photo page). There is a significant leak in the flume duct to Tk-1901, there was an attempt to patch this leak but it has failed. At the time of this inspection the leak is saturating the bottom extension and bottom of the tank shell on the west side. This area of corrosion has progressed to measurable wall loss, but due to the in-service status of the tank the scale and corrosion was not removed to determine the approximate wall loss. This area needs to be addressed at the next possible outage. (See photo page). The coating on the tank is in fair condition, the areas of concern are the top of the shell, the flume, the open flume box, the clean-out door and the bottom extension.(See photo page). The clean-out door has had new coating applied over existing corrosion, this corrosion is still active. (See photo page). There is a missing bolt in the 20" nozzle on the North-East side of the shell. (See photo page).



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<i>*Recommended Items for Repair*</i>	
Item	Recommendations
1	Repair flume leak and re-coat.
2	Remove corrosion from shell bottom and bottom extension below flume leak.
3	Evaluate wall loss, repair if necessary and re-coat.
4	Remove existing coating, and corrosion from clean-out door and re-coat.
5	Remove corrosion from top edge of shell, flume box and bottom extension and re-coat.
6	Install missing flange bolt.

<i>*Completed Repairs*</i>	
Item	Description of Repairs Completed

Report Sign-Off	
_____	12/24/2003
API Certified Inspector	Date






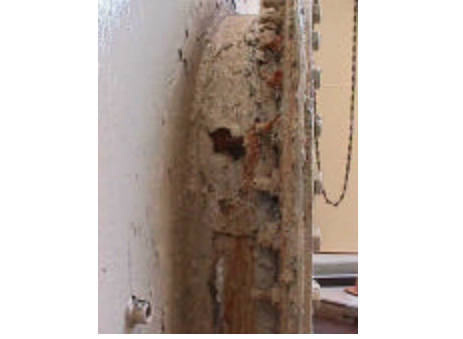



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* Narrative Photo Attachment Page *

Tank No. Tk-1902 Date: 12/24/2003

Leaking patch on flume duct.		Corrosion on shell and bottom extension below flume duct leak.	
Bottom extension and shell corrosion below flume duct leak.		Corrosion under new coating on clean-out door.	
Corrosion on top of tank shell.		Corrosion along top of tank.	
Corrosion on flume box.		Missing flange bolt North-East side.	